

मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD



**ANNUAL REPORT & AUDIT REPORT
WITH
AUDITED STATEMENT OF ACCOUNT**

2014-15

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MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
ALLAHABAD-211004 [INDIA]

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INTRODUCTION

1.1 Vision

1.2 Mission

1.3 Goals

1.1 VISION

To establish a unique identity for the institute amongst national and international academic and research organizations through knowledge creation, acquisition and dissemination for the benefit of society and humanity.

1.2 MISSION

To generate high quality human and knowledge resources in our core areas of competence and emerging areas to make valuable contribution in technology for social and economic development of the nation. Focussed efforts to be undertaken for identification, monitoring and control of objective attributes of quality and for continuous enhancement of academic processes, infrastructure and ambience. To efficaciously enhance and expand, even beyond national boundaries, its contribution to the betterment of technical education and offer international programmes of teaching, consultancy and research.

1.3 GOALS

The standing of an Institution of higher learning is judged by its research activities and contribution in the advancement of knowledge in the emerging areas. The institute will make all efforts to strengthen collaborative research programmes in the following emerging areas with strong user (industry/society) linkages:

Advanced Technologies

Construction Productivity Analysis, Mechatronics, Industrial Knowledge Management Systems, Development & Condition Monitoring of Flow Devices.

Electronics & Communication

4 G Wireless & Mobile Networks Signal Processing, Optical Computation and Communication, Sensor Network, VLSI, Embedded Real Time System.

Energy Engineering

Bio-fuels, Solar Cells, Hybrid Renewal Energy Systems, Virtual Instrumentation, Distributed Energy System, Energy Audit, Development of Energy Efficient Devices & Technologies.

Environment

Urban and Industrial Waste Disposal, Rural Water Treatment, Ground Water Management, Rain Water Harvesting.

Exploration Technology

Remote Sensing and Resource Planning, Geotechnical Exploration.

Global Business

Strategic Alliances, Intellectual Property Rights (IPR), Logistics, Forex Management, Socio-economic Policy Planning.

Health Care

Bio-mechanics, Genomics and Proteomics, Bio-informatics, Chem-informatics, Bio-Medical Devices & Rehabilitation.

Housing

Health Monitoring and Rehabilitation of structures, Smart and Energy Efficient Structures.

IT & Services

E-governance, Web Service, Social Networks, Web-3, Multi-media Technology, Digital Right Management Systems.

Manufacturing

Nano-fabrication, Robotics.

Material Technology

Composite, Smart, Multi-functional and Nanomaterials, MEMS and Smart Sensors.

Strategic & Computing Technology

Grid & Cloud Computing, P2P, Evolutionary Computing, information Security.

Technology for Local & Regional Development

Non-conventional Employment Opportunities, Rural-urban Migration, Social Entrepreneurship, People Public Participation (PPP) with the collaborative research programmes the research output in form of publication in SCI journals and patents will increase. Also effort will be made to double the sponsored and consultancy research project by the end of the next decade.

Centre of Advance Method Research

Centre of Advance Method Research in the respective fields of specializations from different academic departments will be set up. Following areas will be given due importance for establishing the centres of excellence:

- (i) Advance Centre for Interdisciplinary Research.
- (ii) Centre for Biomedical Devices & Implants.
- (iii) Health Monitoring and Rehabilitation of Structures, M/Cs & Devices
- (iv) Centre for Energy & Environment.
- (v) Virtual Instrumentation.
- (vi) Next Generation Communication Networks.
- (vii) Software Quality Certification & Software Security.
- (viii) Centre for Development & Condition Monitoring of Flow Devices.
- (ix) Centre for Advance Manufacturing.

Society

As an institute of National importance, activities of the institute should make positive impact on the society. In order to achieve the objective a centre shall be established to cater for the needs in the following broad areas:

- (i) Promoting social awareness about national problem and possible solutions.
- (ii) International Collaboration for faculty, students and researchers.
- (iii) Faculty Orientation and Development for the faculty members of different neighboring Institutes and our own faculty members.

- (iv) Skill Development for Rural Artisans and Unskilled persons.
- (v) Innovation and Entrepreneurship Development.
- (vi) Provide facilities to underprivileged section of the society.
- (vii) Social Audit of Development Programmes.

Proposed Academic Programmes

- (i) **M.Tech.** in Hydro-power, Irrigation Engineering, Transportation Engineering, Construction Engineering Management, Communication Systems, Energy System, Instrumentation & Signal Processing, Robotics & Automation, Nano-Technology.
- (ii) **B.Tech.** in Mechatronics, Material Science & Engineering, Environment Engineering.
- (iii) Integrated MBA, Executive MBA.
- (iv) **Certificate Programmes** in Management of Engineering Litigation.

Steps to Promote Advanced Research

- (i) Joint thesis and research projects with industry participation.
- (ii) Institutional Assistantships to promote PG and Doctoral Programmes.
- (iii) External registration for Doctoral Programmes for working professionals.

- 2.1 Historical Background**
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- 2.11 Training and Placement**
- 2.12 Notable Achievements**

2.1 HISTORICAL BACKGROUND

Motilal Nehru National Institute of Technology (erstwhile Motilal Nehru Regional Engineering College) Allahabad came into existence in 1960 along with seventeen other Regional Engineering Colleges. The Regional Engineering Colleges had twin objectives, one, to create and nurture engineers and second, to integrate the nation by mandatorily inducting students from all over the country. The governance was shared by the respective State and the Centre. The Institute was affiliated to the University of Allahabad as its Faculty of Engineering, until year 2000. In 2002, the College was renamed as **Motilal Nehru National Institute of Technology** and the governance was taken over fully by the Government of India. In 2007 the Institute was declared as Institute of National Importance by an Act of Parliament. Year 2010-11 celebrated the completion of 50 glorious years of its existence.

The foundation stone of the college building was laid by the architect of modern India, Pandit Jawahar Lal Nehru in 1961 and the building was inaugurated by another illustrious son of the soil Shri Lal Bahadur Shastri in 1965.

In 1961 the first batch of 100 students was admitted to three Bachelor of Engineering (B.E.) programmes, viz. Civil, Mechanical and Electrical Engineering. The Master of Engineering programme (M.E.) began in 1967 with two programmes in Mechanical Engineering followed by three programmes in Civil Engineering in 1971. In 1973 the Institute was identified as Quality Improvement Programme Centre for M.E. and in 1975 for Ph.D., in Mechanical Engineering. The first Ph.D. was awarded in 1975 in Mechanical Engineering. To add a new dimension to itself, the Institute established School of Management Studies in 1996, which offers a two year/four semester post graduate degree programme in Management (MBA).

At present MNNIT is proud to offer nine undergraduate, 25 post graduate (M.Tech., MCA, MBA, MSW and M.Sc.) and doctoral programs in all disciplines of engineering, applied sciences, social sciences and management, to around 4000 undergraduate, 2000 post graduate and 200 doctoral students, through fourteen academic

departments/schools/cells. The students come from all the States as also from many other countries, including SAARC and Middle-east Asia, Europe, USA and New Zealand.

The infrastructure of the Institute is at par with the best institutions in the country; the Computer Centre has state-of-the-art computing facilities, departments have modern laboratories and the library houses print as well digital learning resources. Most of the class rooms are air conditioned and equipped with multimedia pedagogical tools. The entire campus, including hostels, executive development centre and residential area is connected with 1.25 Gbps internet connectivity.

2.2 LOCATION

The city of Allahabad is situated at the confluence (Sangam) of three rivers Ganga, Yamuna and the mythological Saraswati. The earlier settlements of Aryans were established in this city, then known as Prayag; later it became the capital of the glorious Guptas. In 1583, Emperor Akbar built the fort at Sangam, where lies the Ashoka pillar, 11m high dating back to 232 B.C., having inscriptions of Samudragupta and Jehangir. The city was later ruled by the Marathas. It was finally ceded to the British by the Nawab of Awadh in 1801. In the 20th century the city became the nerve centre of India's freedom movement. Allahabad is known for academic ambience and presently houses six national level Institutes/Universities.

2.3 CAMPUS

The Institute is spread over in area of 222 acres on Lucknow-Allahabad highway near the banks of the river Ganga in Teliarganj locality. The campus is divided into three parts:

Academic Campus housing Academic and Administrative Building, Banks, Sports field, Tennis Courts and Gymnasium, Hostel for P.G. Students and Multipurpose Hall.

Hostel area housing hostels for male students, Student Activity Centre and Industrial Estate.

Residential area housing faculty and staff quarters, Executive Development Centre, Girls' hostel, International hostel and Health Centre.

The first Prime Minister of India, Pt. Jawahar Lal Nehru had laid the foundation stone on May 3, 1961.

The main building was inaugurated by another illustrious son of India, late Prime Minister Sri Lal Bahadur Shastri on April 18, 1965. A quiet and congenial atmosphere for studies and research at the highest level prevails in the campus.

The Institute is about 9 km from Allahabad Junction Railway Station and about 4 km from the Prayag Railway station and 16 km from Bamrauli Air Port.

2.4 ADMINISTRATION

Board of Governors is the apex administrative body. The Director is the Principal Academic and Executive Officer of the Institute and is responsible for the proper administration of the Institute and for imparting instructions, maintenance of discipline therein. Director is assisted in his day to day work by Deans, Heads of the departments, Faculty-in-Charge for various functions, Registrar, other officers and various committees.

2.5 ACADEMIC PROGRAMMES

The Institute offers nine B.Tech, twenty three M.Tech, MCA, MBA, MSW and M.Sc. programmes. It also offers doctoral programmes in all the disciplines of Engineering, Sciences, Management, Humanities and Social Sciences.

2.6 ADMISSION PROCEDURE

B. Tech.

Admissions are made on the basis of JEE (Mains) and counseling is conducted by CSAB, on behalf of the Govt. of India, MHRD.

M.Tech.

Admissions to the regular M.Tech. Programmes are made only on the basis of the GATE score through Centralised Counseling for M.Tech. admission in NITs (CCMT). Admissions to M. Tech. (Part Time) and M.Tech.(Sponsored) programmes are made on the basis of national-level test and counseling conducted by the Institute. Further, admissions to M.Tech. programme are also offered under the QIP scheme of AICTE.

MBA

Admissions to the M.B.A. programme are made on the basis of the combined merit of CAT (conducted by IIMs) score and the GD/PI conducted by the Institute.

MCA

Admissions to M.C.A. programme are made on the basis of the rank in NITs MCA Common Entrance Test (NIMCET).

M.Sc. (Mathematics and Scientific Computing)

Admissions to M.Sc. (Mathematics & Scientific Computing) programme are made on the basis of the rank of Joint Admission Test for M.Sc.(JAM) conducted by IITs.

MSW (Master of Social Work)

Admissions to M.S.W. programme are made on the basis of the rank in national-level test conducted by the institute.

Ph.D.

Admission to Ph.D. (Regular / Part-time / Sponsored) programme are conducted on the basis of the rank in national-level test conducted by the Institute followed by a personal interview.

2.7 STUDENTS

The Institute admits 814 students through JEE (Mains) and 123 through DASA Programme to nine undergraduate programmes, 556 students to various M.Tech. programmes, 93 to MCA, 93 to MBA, 23 in M.Sc. and 23 in MSW In addition, 165 students admitted to doctoral programmes in different branches. Students from countries such as Sri Lanka, Nepal, Bangladesh, Mauritius, Malaysia, Iran, Yemen, Iraq, Palestine, Syria, Saudi Arabia and Thailand also join MNNIT for various academic programmes. Teachers from other institutions come here to pursue M.Tech. and Ph.D. under QIP scheme as well as under self sponsored scheme. Large number of industry executives also join for Ph.D. programmes either as full time or part time (off campus) candidates.

2.8 EXAMINATION AND EVALUATION

The examination process is continuous, learning-oriented and transparent. Students' performance is evaluated on the basis of one mid term and one end term examination for each course, along with teachers' assessment, which is based on regularity of attendance, submission of assignments and class participation. The Institute is following a grading system with nine letter grades to denote various levels of performance.

The academic performance of each student is reviewed by a committee consisting of the Chairman SUGC/SPGC, the Dean (Academic) and the DUGC/DPGC Conveners at the end of each semester including summer semester. The academic performance is evaluated on the basis of grades obtained in courses registered, SPI and CPI. 11th Convocation of the Institute was held on **28.03.2015** in which a total **1440** degrees were conferred including **98** Ph.D.

2.9 HOSTELS

The Institute is a fully residential institution. At present there are seven boys' hostels, which are named after Purushottam Das Tandon, Pt. Madan Mohan Malviya, Bal Gangadhar Tilak, Sardar Vallabh Bhai Patel, Kaviguru Ravindra Nath Tagore, Sir C.V. Raman and Swami Vivekananda. Besides these Boys' hostels, one is exclusively for PG students. Presently the Institute is having two girls' hostels located inside the campus for accommodating girl students. They are named after Sarojni Naidu and Kamala Nehru. An International House for Ph.D. students is also located inside the campus. Hostel Messes are managed by nominated student representatives under the overall supervision of Chief Warden and team of Warden In-charge Boys' & Girls' Hostel and Warden-I/Warden-II.

2.10 EXTRA-CURRICULAR ACTIVITIES

The Institute provides ample avenues for the development and nurturing of creative and other talents in the students through Student Activity Centre (SAC). All the activities are managed by students under the guidance of President, SAC and a team of Faculty In-Charges for various events. The prime bodies under SAC are Students' Club and Gymkhana, which provide avenues for cultural and technical events, indoor and outdoor games. Students are also encouraged and facilitated to take part in similar events in other institutions.

Student Activity Centre (SAC)

Motilal Nehru National Institute of Technology Allahabad has been known for its academic excellence and several bench marks have been set up along with a progressive graph of the performance of the students. But the Institute has also records of achievements in curricular as well as extra-curricular activities. The Student Activity Centre of the Institute plays an extremely pivotal role in facilitating the activities and reaches out to

the students. The centre provides ample avenues for the development and nurturing of creative and other talents in the students. All the activities are managed by students under the guidance of President, SAC and a team of Faculty In-Charge for various events.

Gymkhana

Gymkhana is a student governed organization that cultivates leadership, encourages students to participate in outdoor activities, and provide facilities for games and sports. The members of the staff monitor activities of Gymkhana and help students in organizing and managing their functions. Gymkhana provides facilities for outdoor games like Athletics, Cricket, Foot-ball, Hockey, Badminton, Basket-ball, Base-ball, Lawn-Tennis, Squash, Gymnastics, Yoga-Exercises, Boxing and Volley-ball etc.

Each game is looked after by a captain and an officer in charge. Captain of the game is nominated by the President Students Activity Centre. All the games are properly run with the assistance of Gymkhana staff.

Students' club

Students' Club is divided into ten main sections. (a) Literary (b) Astronomy (c) Photography (d) Robotics (e) Modelling (f) Dramatic and Music (g) Painting (h) Indoor Games (i) Radio and (j) Film. Each section is looked after by committee of students elected from each hostel under the guidance of faculty member, nominated by the President.

Activities Organised Under SAC 2014-2015

To begin with the first event of the academic calendar Josh and J Lal Tournament was organized during September 15-22, 2014 and the Institute's team emerged victorious being the overall champion.

The advent of the technical festival of the Institute that is Avishkar/Gnosomania 2014 was organized during October 16-18, 2014. The fest witnessed the participation of the following personalities:

- (i) Mr. Praveen Vettiyatil : Innovator
- (ii) Mr. Suraj Mani & Mr. Baiju Dharmarajan
Artist
- (iii) Mr. Arunabh Kumar: Entrepreneur.
- (iv) Mr. Vipul Goel: Artist
- (v) Mr. Mayank Majumdar and Mr. Vijay
Menon: Quiz Master

Students have showed their keen interest in various activities and the Institute has always provided them with the right platform to showcase their talents and bring victory to the Institute. To name a few, there are events in which students participated were as follows:

- (i) Cultural Festival of IIT Kharagpur (Antaragini): October 9-12, 2014
- (ii) Sports Festival of IIT (BHU) (Spardha): October 30- November 3, 2014
- (iii) Petrofiesta Event of IIT Kharagpur: November 6-11, 2014
- (iv) ACM-ICPC Kharagpur Regions, IIT Kharagpur: December 6-7, 2014.
- (v) Techfest organized by IIT Mumbai: January 2-4, 2015
- (vi) SUPRA SAE 2015 : January 8-10, 2015
- (vii) Boeing workshop : January 9-11, 2015

Apart from the sports events, the Institute has encouraged cultural gathering whereby students are bound to their culture and heritage. In accordance with this, Gotipua Oddissi programme in association with SPIC MACAY was organized in the Institute on November 25, 2014

It was a proud moment when one of the students was invited to participate as top five poets across the engineering institutions of India by the team of Tooryanaad 2014 organized by MANIT Bhopal during January 11-14, 2015. The next endeavour was the participation of the Institute's Athletic team in All India Inter NIT Athletic Meet at NIT Rourkela (Orissa) from January 23-25, 2015. Kshitij, Tech fest of IIT Kharagpur during January 31- February 2, 2015 had also witnessed participation from our Institute. The Institute has been a winning team in folk dances and thereby a "Rajasthani Folk Dance" in association with SPIC MACAY Allahabad chapter was organized on February 3, 2015.

The Institute believes in providing a wide range of activities and not restricted to a particular sport or event and hence the Institute Football team participated in inter NIT Football tournament during February 6-8, 2015 at NIT Warangal. The 48th Annual Athletic Meet of the Institute was organized between February 7-9, 2015, wherein the sportsmanship spirit and the very feeling of a player was evident.

The most applauding moment when the Institute Athletic Team participated in Inter Athletic Meet at NIT Rourkela during January 23-25, 2015 and the team stood **RUNNERS-UP in the competition**. The Institute won the following medals

Institute Football team participated in Inter NIT Football Tournament during February 6-8, 2015 at NIT Warangal.

GOLD	5 Boys; 7 Girls
SILVER	7 Boys; 5 Girls
BRONZE	8 Boys; 3 Girls

In addition to all the above achievements, few students were recognized in an unparalleled manner like

Special awards: **Fastest man (Mr. Sumit Katoch) & Best Athlete (Mr. Bijendra)**

In a country like India where cricket is followed as a religion, the Institute had organized All India Inter NIT Cricket Championship by Student Activity Centre, MNNIT Allahabad during February 13-15, 2015. Twenty NITs cricket teams participated in the tournament and MNNIT Allahabad emerged as champion in the tournament. In order to applaud the winners of various events of the Student Activity Centre, below is a close view of events as well as their respective winners.

Sl. No.	Event	Performance
1	SPARDHA, IIT (BHU) SPORTSFEST (OCT 30- NOV 2, 2014).	2 nd RUNNERS-UP IN ATHLETICS GOLD-2M, SILVER-3M, BRONZE-5M,
2	INTER NIT ATHLETICS MEET, NIT, ROURKELA (JAN 23-25, 2015)	RUNNERS-UP IN ATHLETICS GOLD-5 Boys, 7 Girls, SILVER-7 Boys, 5 Girls BRONZE- 8 Boys, 3 Girls, Special awards: Fastest man (Mr. Sumit Katoch) & Best Athletic (Mr. Bijendra)

3 SPRING FEST, IIT-KHARAGPUR'S ANNUAL CULTURAL FESTIVAL

Nukkad (The Street Play) Institute's Dramatics team (B.Tech. 2nd & 1styr) stood 2nd. Western Dance Institute's team (B.Tech. 3rd, 2nd & 1styr) stood 5th among 18 teams from across the country
A Mighty Pen (Journalism based event)
Team comprising of SAUHARD AWASTHI, TANUSHREE SHUKLA & SHUBHANK CHANDRA (all B.Tech. 3rdyr) stood 4th.

The Institute has also created opportunities for the young innovatives and creative minds where an e-Summit 'Renaissance 2015' was organized by Centre for Promoting Innovation with an active involvement of students (SAC) during March 21-22, 2015. The Annual Cultural Festival 'Culravö' of the Institute was organized during April 2-5, 2015. It brings together several dance forms on a single platform, diversified with its colour, themes, dances, drama and so on. The fest witnessed the participation of the following personalities:

- (i) Mr. Piyush Mishra
- (ii) Mr. Sumit Vyas
- (iii) Mr. Amit Behl
- (iv) Mr. Munnawar Rana
- (v) Mr. Arun Gemini
- (vi) Mr. Sarvesh Asthana
- (vii) Mr. Gajendra Solanki
- (viii) Mr. Yash Malviya
- (ix) Mr. Shailesh Gautam
- (x) Ms. Anukriti Gosain

On accounting the various events irrespective of their genre, the Institute has shown its constant effort and support to the students on a higher scale. The students have also given justice in bringing name and fame to the the institute with their remarkable performances and glorious

results. The very idea of letting students perform in various activities apart from academic oriented programs is of incredible value and importance.

2.11 TRAINING AND PLACEMENT

Campus Recruitment Programme conducted by this Institute is a very vital activity. A very close interaction between the students and the company executives has created excellent placement record. The student members of the placement committee actively participated in organizing campus recruitment programmes. By hard work and dedication, our students have created enviable position in Indian Industries. The Institute has excellent record of assuring jobs in prestigious organizations before they leave the Institute. Over 190 companies visited the Institute during the year '2014-15' for Campus Selection our students from B.Tech (Computer Science and Engineering) got a record offer of Rs. 25 LPA (CTC) from Amazon. Besides this, the Department also arranges Summer Training Programme for students of B.Tech. 6th Semester and MBA 2nd Semester. The following tables give the statistics of placement for the passed out Batch 2014-15.

For B.Tech. Courses (2014-15)

Course	Discipline	Eligible Students	Students Placed	Jobs Offered	%age
B.Tech	Biotechnology	30	18	21	60
	Chemical Engineering	36	24	28	66.67
	Civil Engineering	70	40	43	57.15
	Computer Science & Engineering	154	131	156	85.06
	Electrical Engineering	65	51	63	78.46
	Electronics & Communication Engineering	132	106	141	80.27
	Mechanical Engineering	124	94	116	75.80
	Production & Industrial	31	21	22	67.74
	Information Technology	74	62	78	83.78
Total		716	548	668	76.53

For Master Courses (2014-15)

Course	Eligible Students	Students Placed	Jobs Offered	Percentage
M.Tech.	328	103	19	27.74
MCA	83	60	73	71.42
M.Sc.	16	1	1	6.25
MBA	58	30	31	41.37
MSW	8	1	1	12.5
Total	493	195	25	39.55

Year-wise Placement details of B.Tech. Students

Department	2014-15		2013-14		2012-13	
	Eligible	Placed	Eligible	Placed	Eligible	Placed
Biotechnology	30	18	25	17	15	08
Chemical	36	24	34	23	34	27
Civil	70	40	78	40	61	48
Computer Science	154	131	152	141	130	118
Electronics & Com.	65	51	141	115	118	95
Electrical	132	102	66	49	61	52
Information Technology	124	94	77	68	72	61
Mechanical	31	21	125	77	92	83
Production & Industrial	74	62	31	21	32	26
Total	716	543	729	551	615	518

2.12 NOTABLE ACHIEVEMENTS

The year has been highly fruitful in terms of academic achievements. The faculty members visited various countries as invited faculty and to attend international conferences. A total of 489 Research papers were published. 30 books were published by faculty during theyear.

Number of faculty members have received national and international honours and awards. 104 Faculty member were invited to deliver talks and lectures. 14 research projects are awarded in various departments. A large number of faculty attended conferences, workshops and seminars. Also several guest lectures were organised to benefit students from scholars of the international repute.

GENERAL FACILITIES AND SERVICES

- 3.1 Computer Centre**
- 3.2 Mechanical Workshops**
- 3.3 Laboratories**
- 3.4 Centre for Interdisciplinary Research (CIR)**
- 3.5 Centre for Medical Diagnostics and Research (CMDR)**
- 3.6 Central Library**
- 3.7 School for Non-Formal and Continuing Education (SNFCE)**
- 3.8 Intellectual Property Right Cell (IPR Cell)**
- 3.9 NCC & NSS**
- 3.10 Institute Health Care Centre**
- 3.11 Vehicle Section**
- 3.12 Women Grievance Cell**
- 3.13 Alumni**
- 3.14 Canteen**
- 3.15 Executive Development Centre (EDC)**
- 3.16 SC/ST & Reservation Cell**

GENERAL FACILITIES AND SERVICES

3.1 COMPUTER CENTRE

The Computer Centre is equipped with 300 state of the art Pentium machines with Windows and LINUX environment. The Computer Centre is solely responsible for keeping computation related facilities available to each and every member of MNNIT Allahabad. Computer Center provides Email, Web, DNS, FTP, Internet access, HPC and other services 24 hours and 365 days a year. Computer Centre also provides various advanced and special purpose software for all the campus users. 24x7 internet connectivity with 1200 Mbps [1000 Mbps(1:1) from NKN (through Railtel) ,200 Mbps (1:1) from BSNL] is provided using optical fiber backbone covering departments, student hostels and residential areas. Both wired and wireless internet connectivity is available in the campus.

3.2 MECHANICAL WORKSHOPS

Mechanical Workshop is one of the Central facilities of Motilal Nehru National Institute of Technology Allahabad. Mechanical Workshop has seven different shops such as; Machine Shop, Welding Shop, Carpentry, Sheet Metal, Fitting, Foundry and Smithy.

All B.Tech. first year students (all branches), B.Tech 4th, 5th, 6th, 7th and 8th Semester of Mechanical and Production Engineering perform their practically. As per new curriculum, the M.Tech. CAD/CAM, Mechanical and Production Engineering (regular & part time) students also have to perform the practical in different shops of Mechanical Workshop. In Mechanical Workshop, the project of Ph.D. Research Scholars are also fabricated and manufactured.

3.3 LABORATORIES

Applied Mechanics

- (i) Experimental Solid Mechanics PG Laboratory
- (ii) Biomedical Engineering PG Laboratory
- (iii) Material Development PG Laboratory
- (iv) Fluids Engineering PG Laboratory
- (v) Computational PG Laboratory
- (vi) Strength of Material Laboratory
- (vii) Material Science & Engineering Laboratory
- (viii) Fluid Mechanics & Hydraulic Laboratory
- (ix) Structural Analysis Laboratory
- (x) DST-FIST Computational Laboratory

- (xi) Departmental Workshop
- (xii) Engineering Mechanics Laboratory
- (xiii) Fluid Research Laboratory

Biotechnology

- (i) Laboratory-I
- (ii) Laboratory-II
- (iii) Bioinformatics laboratory
- (iv) Green house
- (v) Experimental field

Civil Engineering

- (i) Structural Engineering Laboratory
- (ii) Geotechnical Engineering Laboratory
- (iii) Environmental Engineering Laboratory
- (iv) Transportation Engineering Laboratory
- (v) Survey Laboratory
- (vi) CAD Laboratory
- (vii) Geology Laboratory

Chemical Engineering

- (i) Chemical Reaction Engineering
- (ii) Chemical Technology
- (iii) Computer Aided Design
- (iv) Environmental Engineering
- (v) Fluid Particle Mechanics & Mechanical Operation
- (vi) Mass Transfer
- (vii) Process Dynamics & Control

Chemistry

- (i) Undergraduate Chemistry

Computer Science and Engineering

- (i) Information Security
- (ii) Vision
- (iii) Laboratory for Post Graduate
- (iv) Computer System
- (v) Computer Programming
- (vi) Software Testing
- (vii) SOA/Distributed Computing

Electrical Engineering

- (i) Computer Simulation
- (ii) Virtual Instrumentation Lab
- (iii) Power Electronics Lab
- (iv) Control System Lab
- (v) Electrical machine & Power System Lab
- (vi) Measurement & Instrumentation Lab
- (vii) Departmental Research Unit (DRU)

Electronics & Communication Engineering

- (i) Basic Electronics
- (ii) Advanced Electronics
- (iii) VLSI
- (iv) Computer Architecture
- (v) Communication
- (vi) Project and PCB
- (vii) Microwave
- (viii) PARAM

Mechanical Engineering

- (i) Machine Tool & Advanced Machining Laboratory
- (ii) Materials Characterization Laboratory
- (iii) Machine Elements Laboratory
- (iv) Computer Aided Design Laboratory
- (v) Computer Aided Manufacturing Laboratory
- (vi) Instrumentation Laboratory
- (vii) Automobile Engineering Laboratory
- (viii) Internal Combustion Engine Laboratory
- (ix) Heat & Mass Transfer & Solar Energy Lab
- (x) Mechatronics and Virtual Instrumentation Lab
- (xi) Product Design and Manufacturing Lab
- (xii) Computational and Industrial Engineering Lab
- (xiii) Refrigeration and Air Conditioning Laboratory
- (xiv) System Engine Laboratory
- (xv) Steam Engine Laboratory

Physics

- (i) Undergraduate Physics

SMS

- (i) Systems Laboratory
- (ii) Behaviour Dynamics Lab
- (iii) Research Scholars Lab

HSS

- (i) Language Lab

GIS Cell

- (i) Geoinformatics Lab (GI2151)
- (ii) Geoinformatics Lab II (GI2251)

3.4 CENTRE FOR INTERDISCIPLINARY RESEARCH (CIR)

The Centre for Interdisciplinary Research (CIR)

was established by the Institute in order to promote cross-interdisciplinary research. The centre was inaugurated by Prof. P. Chakrabarti Director, MNNIT Allahabad on Nov. 28, 2012. In view of the dramatic developments in the field of Science and Technology research, CIR has been established in the Institute to keep pace with current cutting edge research.

One of the primary objectives of the Institute is to provide best research and analytical facilities for its entire undergraduate, postgraduate, research scholars and faculty. With this vision, the CIR is being established in the Institute. In addition to serving the Institute, the Centre also welcomes researchers from all over the country to use the facility at nominal cost. The Centre also looks forward for collaborative research programme with other leading to Technical Institutions/ Universities and Research Laboratories. The functioning of CIR is being coordinated by a core committee and a technical committee constituted by the Director from among the faculty members of the Institute.

3.5 CENTRE FOR MEDICAL DIAGNOSTICS AND RESEARCH (CMDR)

The Centre for Medical Diagnostics and Research (CMDR) envisions providing an enriched research platform to pursue objective driven scientific research to solve complex health as well as life sciences related issues with advanced high end facility under stringent ethical regulation and good laboratory practices.

The center will also facilitate the establishment of a pathology facility to provide better diagnostic services to all employees and students of MNNIT, which will be run under Institute Health Center. This center “Center for Medical Diagnostic and Research (CMDR)” will be a platform of advanced research, where researchers from Institutes will attempt their cutting edge ideas with the help of available high-end facility. Many of the ideas may later offer deliverables which may in turn benefit the society.

Objectives

To provide best-in-class research facilities for the researchers from the Institute as well as other research organizations.

To disseminate the knowledge among young students to undertake global health challenges.

To facilitate partnerships and interdisciplinary collaborations with clinical as well as academic institutes, research laboratories and pharmaceutical industries worldwide working in clinical and medical areas.

To assist Institute's health center to establish pathology facility in the center to be run under the supervision of a trained pathologist.

To offer consultancy services to Institutes/ organizations/ other stakeholders.

To provide awareness in the society through seminars, workshops and conferences.

Other Responsibilities of Center for Medical Diagnostic and Research

The center aims to encourage interdisciplinary research by facilitating the various departmental research activities. By enabling the various research activities, the center also aims to offer affordable facility to researchers of in and around the Institute. The core and technical committee look after the functioning of the centre and assist in arranging possible funding from different sources.

Thrust areas

- (i) Molecular biology and Genetic analysis
- (ii) Microbiological examination.
- (iii) Immunodiagnostic services
- (iv) Animal Tissue Culture
- (v) DNA Sequencing
- (vi) Clinical and pathological diagnostic as part of Institute Health Centre
- (vii) Any other relevant area
- (viii) Immunodiagnostic services

3.6 CENTRAL LIBRARY

An area of about **2455.49 sqm.** has been occupied by the present Library building. It contains a Reading Hall measuring 388 sqm. wherein **120** readers can be accommodated at a time, a Stack-room of 470.42 sqm. having a collection of about 96,757 books and a Bound Periodical Section having a collection of 15,331 approx volumes and a sitting capacity of **40** readers at a time. A current periodical section of which 2926 periodicals (Online) plus 1522 International e-Journals (Back files) and National Journals 38 (Print) are being subscribed annually having a sitting capacity of **40** readers at a time is also there.

Membership

The membership of the Central Library is open to students, teachers and other administrative and technical officers and staff of the Institute. The present membership is about 5360 approx.

Working Hours

The Library working hours are from 9:00 am to 12:00 midnight. The circulation section remains open between 09:30 am to 07:30 pm on week days and on Saturdays / Sundays remains open between 10:30 am to 2:0 pm. A total of 3842 approx books were transitioned during the year.

Collection as on 31-3-2015

Bound periodicals	17,543
Books and other reading material	96,757
Total	1, 12, 088
E-Books	15,064

Additional during the year (01-04-2014 to 31-03-2015)

Bound periodicals	2312
Books and other reading material	862
Total	3174

Journals

During the current year the library subscribed 2926 International Journals (online), 1522 International Journals (Back files) and National Journals 38 (Print) .

News Paper and Magazine

Newspaper and Magazine corner is located at first floor in the Library. The Library subscribes **21** Newspapers (**12** Hindi and **09** English) and 13 (02 Hindi and 11 English) popular magazines on different topics.

Internet Access Facility

The Central Library provides 25 internet connections and Wi-Fi internet connections to its user and majority of students frequently use on-line journals and e-books for their research activities.

Multimedia Library

Video viewing facility is available for self study through video tapes of course materials and lecturing facility for all users during all working days and Saturdays and Sundays. More than 1343 video tapes are available with the library.

National Programme on Technology Enhanced Learning (NPTEL)

NPTEL provides e-learning through online Web and Video courses in Engineering, Science and humanities streams. The mission of NPTEL is to enhance the quality of engineering education in the country for access of video courses, please click <http://172.31.100.75>.

Online Public Access Catalogue (OPAC)

Library has fully computerized catalogue search facility available to users through intranet.

Online Journals

Sl. No	Full Text Database	Link
1	ACM Digital Library	http://portal.acm.org/portal.cfm
2	ASCE Journals	http://scitation.aip.org/publications/myBrowsePub.jsp
3	ASME Journals	http://scitation.aip.org/publications/myBrowsePub.jsp

Classification & Cataloguing

All the library books are classified as per “Dewey Decimal Scheme of Classification” and catalogued as per “AACR-II rules”.

Reprographic Services

Provides for the personal use of users the copies of information materials available in library on payment basis.

Textbook Lending Book Bank

The book bank of the Institute helps the students of U.G. courses and MCA by making textbooks available to them from the book bank for largest duration. About 2920 students were benefited by this scheme and 8760 books were issued to them during the year.

SC/ST Book Bank

Under centrally sponsored scheme for SC/ST students, a total of 263 students of U.G. courses were benefited by this scheme and 1315 books issued to them. Under this scheme no rent is being charged from them.

3.7 SCHOOL FOR NON-FORMAL AND CONTINUING EDUCATION (SNFCE)

The Institute offers the opportunity to working engineers in and around Allahabad employed with

Industries, Govt. Departments, Educational Institutions & Entrepreneurs to study for Masters Degree in various disciplines on a part time basis. These are aimed at improving the standard and quality of technical education through improvement of qualifications of the working professionals and faculty members of the government/Private technical Institute.

The classes for these courses are organized in the evening. The M.Tech. Courses available are listed in the guide under the head of academic activities.

The actual number of courses for the particular session to be offered shall be announced through the news papers alongwith other details of application.

It is a self supporting unit within the Institute and participates in organizing seminars, conferences, symposia etc. This unit also organizes short term courses and training programmes are also being offered to run special course modules and sponsored courses on request from industries and academia.

The cell coordinates the activities of industry needs for academic and continuing education programmes as well as executive development programmes and non-formal education and fosters collaborations for Industry-Institute partnership. A number of Faculty Development Programs (FDPs) have been organized by the SNFCE for the benefit of the faculty members from engineering colleges & persons from industries. The courses have proved very popular and useful.

M.Tech. (Part-Time) programmes are run under the school for Non Formal and Continuing Education (SNFCE). These programmes are of 03 years/06 semester duration out of which 02 years are for course work and one year for Thesis/Dissertation/Projects. The candidates with minimum 02 years of working experience are eligible for admission. All academic requirements for admission and graduation will be same as that of regular/full-time

3.8 INTELLECTUAL PROPERTY RIGHT CELL (IPR CELL)

The Institute IPR Cell has been constituted to maintain high standards of academics and to create a suitable environment for creation and protection of intellectual property.

In the year under report, the IPR Cell took following steps towards achieving the objectives:

- (i) Turnitin software has been procured to check similarity of text with published material. The login is available to all the Heads of the Departments.
- (ii) The IPR Cell proposed that all the Ph.D theses should be checked by the Cell using 'turnitin' software before submission. The senate approved the proposal in its Eleventh urgent meeting held on 15.7.2014. Since then all the theses are routed through IPR Cell.
- (iii) A Draft & IPR policy of the Institute was prepared and submitted to the Board of Governors for consideration and approval.
- (iv) With the objective to promote patents and copyrights, a patent agency has been finalized by inviting Letter of Intent through open tender process; M/s United Overseas Patent Firm New Delhi, has been engaged for one year and extendable for one more year.
- (v) The Institute filed two applications for grant of patent, out of which one has reached the stage of Early Publication and Substantive Examination.

Following is the constitution of the IPR Cell:

- (i) Prof. P. Chakrabarti, Director, Chairman IPR Cell
- (ii) Prof. Geetika, (SMS) Chairperson IPR Standing Committee
- (iii) Prof. H Kar, (ECED)
- (iv) Prof. Neeraj Tyagi, (CSED)
- (v) Dr. Shivesh Sharma, (BT)
- (vi) Dr. Piyali Ghosh, (SMS)
- (vii) Dr. Pramod Kumar Yadav, (Maths)
- (viii) Dr. Soumya Ranjan Mohanti, (EED)
- (ix) Er. Asim Mukherjee, (ECED)
- (x) Dr. P. R. Pal, (CED)

3.9 NCC & NSS

National Cadet Corps (NCC)

NCC wing is quite functional and active at MNNIT. Following were the activities carried out by NCC during 2014-15:

- (i) Enrollment for New NCC Cadets (boys and girls) was completed on August 02, 2014.
- (ii) NCC cadets (SD and SW) performed the parade on the auspicious occasion of

68th Independence Day, 2014.

- (iii) NCC cadets participated in Bharat Swachh Abhiyan on the occasion of birth anniversary of Mahatma Gandhi i.e. October 02, 2014 at MNNIT, Allahabad.
- (iv) NCC cadets participated in Annual Training Camp, CATC/SD-66 held from October 21-30, 2014 at Ishwar Saran Inter College, Allahabad.
- (v) NCC cadets run for unity on the occasion of Sardar Patel Jayanti i.e. October 31, 2014 at MNNIT, Allahabad.
- (vi) NCC cadets won Volley Ball championship at Annual Training Camp 2014.
- (vii) Performed NCC parade and March Past by NCC Cadets on occasion of Republic Day, 2015.

National Service Scheme (NSS)

NSS wing is quite functional and active at MNNIT. Following were the activities carried out by NSS during 2014-15.

- (i) NSS volunteers participated in “Rashtriya Swachhata Abhiyan”(National Clean India Mission) on October 02, 2014 on the occasion of Gandhi Jayanti.
- (ii) NSS volunteers participated in “Run for Unity” race organised on October 31, 2014 in fond memories of Sardar Patel.

3.10 INSTITUTE HEALTH CENTRE

It is an out-patient centre catering the following need of approximately 3000 students and similar number of staff & their dependents.

Timing of Health Centre

All working days of the Institute: From 7.30 a.m. to 6.00 p.m.

All Saturdays and Sundays: From 9.00 a.m. to 1.00 p.m.

Facilities

- (i) Consultation & Dispensing of medicines to students, staff & their dependents.
- (ii) Special facilities of E.C.G., sugar testing by Glucometer.
- (iii) Services of Dental surgeon, Orthopedic surgeon, Ophthalmic surgeon, Skin specialist, Gynecologist are available on different days.

- (iv) Homeopathic medicines are also being provided under consultation of Homeopathic consultant.
- (v) Physiotherapist is available for all type of physiotherapy.
- (vi) Organization of different camps and talks for benefit and awareness of mass in diseases like Hepatitis, AIDS, Asthma, Diabetes and Arthritis.

Presently all the works at Health Care Centre are carried out by following staff:

Medical Officer

Dr. Shailendra Kr. Mishra

Part Time General Duty Doctors

Dr. K. K. Dwivedi Modern Medicine
 Dr. Anish Bhatnagar Modern Medicine
 Dr. Akansha Singh General Physician
 Dr. Sadhna Dwivedi General Physician
 (Lady Doctor)
 Dr. S. Paulson (Lady General Physician
 Doctor)

Part Time Specialist Doctors

Dr. Amit Gupta Ophthalmologist
 Dr. Kamini Kumar Ophthalmologist
 Dr. Nishant Nigam Skin specialist
 Dr. S.K. Agarwal E.N.T Surgeon
 Dr. R.N. Mehrotra Pediatrician
 Dr. Yogita Rai Psychologist
 Dr. Sadhna Pandey Gynecologist
 Dr. Puneet Upadhya Dental Surgeon
 Dr. Ashish Agarwal Dental Surgeon

Part Time Homoeopathic Doctor

Dr. K. K. Singh

Part Time Ayurvedic Doctor

Dr. Sanjay Baranwal
 Dr. Ranjana Tiwari

Physiotherapist

Mrs. Ashita Tiwari,
 Mr. C. Mohd. Soheb

Compounders

Shri Girja Shanker Maurya,
 Shri Vinod Mishra,
 Shri R.K. Nirbhay

Three compounders are managing complete dispensing of medicines & assisting specialist doctors during dispensary hours.

Dressers

Two dressers are there to help in dressing, injections and miscellaneous work of Health Centre during working hours.

Nurse

Two Nurses to help doctors and carryout other miscellaneous works.

Medical Attendant

Two attendants, one clerk, one peon and two sweepers are there to help doctors, compounders and dressers.

3.11 VEHICLE SECTION

Use of motorized vehicles (2-4 Wheelers) by Students in MNNIT Allahabad Campus is banned with effect from 21.07.2011.

Vehicle section has following vehicles through which number of facilities is provided to students, staff and faculty members of the Institute.

Cars	Numbers
MUV	02
BUS (52 Seater)	02
BUS (32 Seater)	01
Ambulance	01

Facilities Provided

- (i) Bus facility is provided to students from Institute to Civil Lines on all week days.
- (ii) Buses are also provided for education tour of students.
- (iii) Bus facility is provided to wards of staff and faculty members to some selected schools on selected routes on subsidized rates.
- (iv) Vehicles are also provided for any official visit provided approval is accorded by the competent authority.
- (v) Vehicle is also provided to staff and faculty members for picking and dropping from/to Railway Station, Bus Stand and Airport on payment basis. The guidelines for availing this facility and requisition slip is provided on the website of the Institute.

- (vi) Ambulance facility is free of cost to students, staff and faculty members. It is on the subsidized rate of Rs. 5.00/-km.

Bus Service for Students

Bus facilities to students are provided on following route and time-table:

- (i) Institute (MP Hall) to Civil Lines via Anand Bhawan → Balson Crossing → Medical College Crossing → Indira Bhawan Crossing → Patthar Girija Ghar (Stone Church, Civil Lines).
 (ii) Return by the same route.

Terminus

Near “Patthar Girija Ghar (Stone Church)”
 (Civil Lines)

Schedule

For Saturday and Sunday

Trip No.	From Institute	From Civil Lines
1	1100 hrs	1230 hrs
2	1430 hrs	1530 hrs
3	1700 hrs	1930 hrs
4	2030 hrs	2130 hrs

For Monday to Friday

Trip No.	From Institute	From Civil Lines
1	1800 hrs	1900 hrs
2	1930 hrs	2000 hrs
3	2030 hrs	2130 hrs

Stoppage: Ganga gate, Crossing for Prayag Station, Anand Bhawan, Medical College Crossing, P.D. Tondon Park Crossing, Indira Bhawan Crossing, Stone Church Crossing.

Note: Students are required to carry a valid Institute ID card to avail this service.

Human Resource

Three full time drivers are there in the vehicle section. For rest of the services, manpower is hired through Manpower Providing Agency.

3.12 WOMEN GRIEVANCE CELL

Women Grievance Cell has been constituted in accordance with the guidelines issued by Government of India to consider complains related to any sexual discrimination/harassment of women in the Institute. At Motilal Nehru National Institute of Technology Allahabad, various measures are taken to ensure a congenial

environment where everyone feels comfortable to perform without any kind of discrimination.

Following activities were carried out during the year 2014-2015:

- (i) At Institute website, a separate link is created for women grievances.
- (ii) Hoardings have been placed at strategic points in the Institute to highlight what may comprise
- (iii) Sexual harassment to deter occurrence of any such event.
- (iv) Contact details of chairperson are given on the hoardings for everyone's benefit.
- (v) Sensitization workshops are organized with participation of eminent speakers from academics, social organizations and law.
- (vi) Training programmes for students to prepare for unwanted incidents.

Activities which were organized by the Institute for Women Empowerment are as follows:

- (i) Short term training programme on ‘Self Defense for Women’- from 16.03.2015-22.03.2015.
- (ii) Symposium on Women Empowerment– on 08.09.2014.

The Institute is committed to ensure an equitable and fair environment for all.

Sl. No.	No. of Meetings Held		
	Date	Time	Venue
1.	08-08-14	03:30 pm	Conference Room, School of Management Studies
2.	11-02-15	03:30 pm	Conference Room, School of Management Studies
3.	03-03-15	03:30 pm	Conference Room, School of Management Studies

3.13 ALUMNI

Institute alumni have been bringing laurels to the nation on various forums. Many of its alumni have headed the public sector giants in the country. Magsaysay Award winner Shri Deep Joshi is also an alumnus of MNNIT Allahabad.

The industry too has well received the products of the Institute by offering attractive packages; the recruiters include, multinational giants like Facebook, Amazon, Oracle, Microsoft, Indian corporate houses and public sector Navratans like

- (i) All affairs related to SC/ST.
- (ii) All affairs related to SC/ST reservation implemented in the Institute according to Indian Government Policy.
- (iii) Registering the complaints in writing from of SC/ST teachers, officers, employees, and students and address it to concerned department, person, section for its peaceful resolution.
- (iv) Nomination of SC/ST students for Cell at Institute level.

GAIL, Coal India, IOC, etc.

Executive Committee Meeting

- (i) 26 April 2014 at 12.00 noon at Executive Development Centre (EDC).
- (ii) 26 July 2014 at 12.00 noon at Executive Development Centre (EDC).
- (iii) 27 September 2014 at 12.00 noon at Executive Development Centre (EDC).
- (iv) 07 February 2014 at 12.00 noon at Executive Development Centre (EDC).

Press Conference held on 07 November 2014 at 2.30 pm at Executive Development Centre (EDC).

Alumni Convention-2013 held on November 08-09, 2014.

Financial assistance was given to the following students:-

- (i) Mr. Rakesh Kumar - 2014CA53 MCA Ist Sem.CSED
- (ii) Mr. Raju Kumar Gupta - 20146052 B Tech Ist Year MED
- (iii) Mr. Mishal Gupta - 20143107 B Tech Ist Year MED
- (iv) Mr. Deepak Prajapati -20140034 B Tech Ist Sem Biotech

3.14 CANTEEN

The Institute campus has excellent eating outlets, that serves food and cafeteria items at reasonable prices. The outlets are managed by:

- (i) M/s JMD Food Pvt. Ltd.
- (ii) M/s Amul India Pvt. Ltd.
- (iii) M/s Ram Pher

- (iv) M/s Lal Bahadur
- (v) M/s Agrawal Enterprises
- (vi) M/s Goyal Enterprises
- (vii) M/s Deshraj
- (viii) M/s Teerath Raj
- (ix) M/s Raj Canteen
- (x) M/s Mood ka Food
- (xi) M/s Pillai Canteen
- (xii) M/s Rajesh Yadav
- (xiii) M/s Janta Bazar
- (xiv) M/s Ambika Prasad Ojha

3.15 SC/ST AND RESERVATION CELL

SC/ST Cell has been constituted in the Institute to resolve all the affairs and problems related to the SC/ST Officers, Employees, and Students of the Institute. Following is the composition of SC/ST Cell:

Composition

- | | |
|---|------------------------------|
| (i) Prof. Rakesh Narain, MED | Chairman |
| (ii) Dr. S. J. Pawar, AMD | Convener/
Liaison Officer |
| (iii) Dr. Audhesh Narain, MED | Member |
| (iv) Dr. Radharani Mewaram, Boitech. | Member |
| (v) Dr. Pramod Kumar Yadav, Maths | Member |
| (vi) Sri. Monujeet Dayal, AMD | Member |
| (vii) Sri. Ranjeet Kumar Nirbhai, Health Centre | Member |
| (viii) Mr. Manish Kumar Gautam, MED | Member |
| (ix) Mr. Vipul Chaudhary, Biotech. | Member |
| (x) Mr. Pawan Kumar Singotia, MED | Member |
| (xi) Ms. Anjali Priya, ECED | Member |
| (xii) Registrar (ex-officio) | Member |

Reservation Cell

Reservation Cell takes care of Central Government reservation policy in the

recruitment /promotion process. All advertisement for recruitment of faculty/non faculty is routed through reservation cell.

EDC provide 20 AC and 04 Non-AC rooms at EDC on advance booking on the prescribed format. All official bookings will need prior approval of the Department /Section.

3.16 EXECUTIVE DEVELOPMENT CENTRE (EDC)

Rates

Category	Type of Accommodation	Tariff for Rooms	
		A/C	Non-A/C
Official	Single Occupancy	₹ 300/-	₹ 200/-
	Double Occupancy	₹ 350/-	₹ 250/-
Non-official	Single Occupancy	₹ 500/-	₹ 400/-
	Double Occupancy	₹ 600/-	₹ 450/-
Official	Conference Hall/ Dining Hall Rates	₹ 200/-	-
Non-official	Conference Hall/ Dining Hall Rates	₹ 400/-	-

Capacity

Floor	No. of Rooms / Hall
Ground Floor	02 Halls
Ground Floor	05 AC Rooms
First Floor	15 AC Rooms
Second Floor	04 Non-AC Rooms

ADMINISTRATIVE BODIES

- 4.1 Board of Governors**
- 4.2 Finance Committee**
- 4.3 Building and Works Committee**
- 4.4 Senate**

4.1 BOARD OF GOVERNORS

Constitution of Board of Governors of MNNIT Allahabad as per Section 11 of NITs Act 2007 (29 of 2007)

The Chairperson to be nominated by the Visitor

- | | | |
|------|---|--------------------------------|
| (i) | Dr. V. K. Saraswat
Scientific Adviser to Defence Minister
& Secretary, Department of Defence, R & D, DRDO
New Delhi. | Chairman
[upto 19.11.2014] |
| (ii) | Shri Vijay K. Thadani
Vice Chairman & Managing Director
NIIT Limited
Plot No. 85, Sector 32
Gurgoan, Haryana-122001 | Chairman
[w.e.f.20.11.2014] |

The Director, Ex-Officio Member

Prof. P. Chakrabarti Director Motilal Nehru National Institute of Technology Allahabad	Member
--	--------

Two persons not below the rank of Joint Secretary to the India to be nominated by the Central Government from amongst persons of Technical education and finance

The Additional Secretary [Technical Education] Government of India Ministry of Human Resource Development New Delhi	Member
The Financial Advisor Integrated Finance Division Government of India Ministry of Human Resource Development Department of Higher Education New Delhi	Member

Two persons nominated by the Government of U.P.

Vacant [since 12-01-2014]	Member
Vacant [since 12-01-2014]	Member

Two persons, at least one of whom shall be a woman, nominated by the Council

Vacant [since 09-04-2014]	Member
Vacant [since 09-04-2014]	Member

One Professor and one Assistant Professor or a Lecturer of the Institute nominated by the Senate

Dr. R. K. Srivastava
Professor
Department of Civil Engineering
Motilal Nehru National Institute of Technology Allahabad
Member

Dr. Y. K. Gupta
Associate Professor
Department of Civil Engineering
Motilal Nehru National Institute of Technology Allahabad
Member

The Director of the Indian Institute of Technology in whose zone the Institute is located, or his nominee, not below the rank of a Professor

Director
Indian Institute of Technology Kanpur
P.O. - IIT Kanpur,
Kanpur 6 208016
Member

Registrar of the Institute as Ex-Officio Secretary

- (i) Dr. Sarvesh K. Tiwari
Registrar [Officiating]
Motilal Nehru National Institute of Technology Allahabad
Secretary
[upto 02.12.2014]
- (ii) Col. Sanjiv Banerjee (Retd.)
Registrar
Motilal Nehru National Institute of Technology Allahabad
Secretary
[w.e.f. 03.12.2014]

Three meetings of the Board of Governors were held during the year 2014-15

4.2 FINANCE COMMITTEE

Constitution of the Finance Committee as per Statutes 10 of the First Statutes of NITs.

The Chairperson Board of Governors, Ex-Officio Chairman

- (i) Dr. V.K. Saraswat
Former Scientific Adviser to Defence Minister
& Secretary, Department of Defence R & D, DRDO
New Delhi.
Chairman
[upto 19.11.2014]
- (ii) Shri Vijay K. Thadani
Vice Chairman & Managing Director
NIIT Limited
Plot No. 85, Sector 32
Gurgoan, Haryana-122001
Chairman
[w.e.f. 20.11.2014]

Director, Ex-Officio Member

Prof. P. Chakrabarti
Director
Motilal Nehru National Institute of Technology Allahabad

Member

Joint Secretary dealing with NIT or his nominee and Financial Advisor [Human Resource Development] or his nominee members

(i) The Additional Secretary [Technical Education]
Government of India
Ministry of Human Resource Development
New Delhi

Member

(ii) The Financial Advisor
Integrated Finance Division
Government of India
Ministry of Human Resource Development
Department of Higher Education
New Delhi

Member

Two persons nominated by the Board from amongst its members

Vacant [since 12-01-2014]

Member

Vacant [since 09-04-2014]

Member

The Registrar, Ex-Officio Member Secretary

(i) Dr. Sarvesh K. Tiwari
Registrar [Officiating]
Motilal Nehru National Institute of Technology Allahabad

Secretary
[upto 02.12.2014]

(ii) Col. Sanjiv Banerjee (Retd.)
Registrar
Motilal Nehru National Institute of Technology Allahabad

Secretary
[w.e.f. 03.12.2014]

Three meetings of the Finance Committee were held during the year 2014-15

4.3 BUILDING AND WORKS COMMITTEE

Constitution of the Building and Works Committee as per Statutes 12 of the First Statutes of NITs

The Director, Ex-Officio Chairman of the Committee

Prof. P. Chakrabarti
Director
Motilal Nehru National Institute of Technology Allahabad

Member

One member nominated by the Central Government not below the rank of Director or Deputy Secretary

The Director [NITs] Member
[Deptt. of Higher Education],
Ministry of Human Resource Development
New Delhi

One member nominated by the Board of Governors

The Superintending Engineer Member
Indian Institute of Technology
Kanpur

Dean [Planning and Development] or similar position

Prof. S. K. Duggal Member
Dean [Planning & Development]
Motilal Nehru National Institute of Technology Allahabad

One expert each from Civil and Electrical Engineering Wing of Central or State Government or any autonomous body of repute

The Executive Engineer [Civil] Member
Allahabad Central Division
CPWD, Allahabad

The Executive Engineer [Electrical] Member
Allahabad Central Division
CPWD, Allahabad

Registrar, Ex-Officio Member Secretary

(i) Dr. Sarvesh K. Tiwari Secretary
Registrar [Officiating] [upto 02.12.2014]
Motilal Nehru National Institute of Technology Allahabad

(ii) Col. Sanjiv Banerjee (Retd.) Secretary
Registrar [w.e.f. 03.12.2014]
Motilal Nehru National Institute of Technology Allahabad

The Director [Finance] Special Invitee
Integrated Finance Division
Department of Higher Education
Ministry of Human Resource Development
Government of India
New Delhi

Two meetings of the Building and Works Committee were held during the year 2014-15.

4.4 SENATE

Constitution of the Senate as per Section 14 of the NITs Act – 2007

The Director, Ex-Officio Chairman

Prof. P. Chakrabarti, Director

Chairman

The Deputy Director, Ex-Officio Member

Deputy Director [Vacant]

Member

Professors appointed or recognized as such by the Institute for the purpose of imparting instructions in the Institute

Member

1. Prof. B.D. Chaudhary, CSED
2. Prof. S.K. Agrawal, MED
[Retired on 30.04.2014]
3. Prof. A. K. Misra, CSED
4. Prof. I.K. Bhat, AMD [On Leave]
5. Prof. R.K. Srivastava, CED
6. Prof. Rakesh Mathur, AMD
7. Prof. P.K. Mishra, MED
8. Prof. Sudarshan Tiwari, ECED [On Leave]
9. Prof. S. K. Duggal , CED
10. Prof. P.R. Agrawal, SMS [On Leave]
11. Prof. Nirjhar Roy, MED
12. Prof. Vineeta Agarwal, EED
13. Prof. Dinesh Chandra, EED
14. Prof. R. K. Srivastava, MED
15. Prof. Rajeev Tripathi, ECED
16. Prof. M.M. Gore, CSED
17. Prof. K.K. Shukla, AMD
18. Prof. Rakesh Narain, MED
19. Prof. Anuj Jain, AMD
20. Prof. N.D. Pandey, Chemistry
21. Prof. Suneeta Agarwal, CSED
22. Prof. Geetika, SMS
23. Prof. R. K. Singh, EED
24. Prof. Vinod Yadva, MED
25. Prof. R. P. Tiwari, CED
26. Prof. P.K. Dutta, Chemistry
27. Prof. Haranath Kar, ECED
28. Prof. Anil Kumar Sachan, CED
29. Prof. P.P. Sahay, Physics
30. Prof. A. K. Singh, CED
31. Prof. M. D. Singh, MED
32. Prof. R. D. Gupta, CED
33. Prof. A. D. Bhatt, MED
34. Prof. Sanjay Chaubey, Physics
35. Prof. R. K. Tripathi, EED
36. Prof. R. S. Yadav, CSED
37. Prof. V. K. Srivastava, ECED
38. Prof. R. C. Vaishya, CED
39. Prof. Ram Pal Singh, CED
40. Prof. Niroj Banerjee, HSS
41. Prof. H. S .Goyal, MED
42. Prof. Vijaya Bhdauria, ECED
43. Prof. Neeraj Tyagi, CSED
44. Prof. Ravi Prakash, MED
45. Prof. Amit Dhawan, ECED.
46. Prof. Shubhi Purwar, EED
47. Prof. Shiv Dutt Kumar, Mathematics
48. Prof. S.S. Narvi, Chemistry
49. Prof. K. N. Pandey, MED
50. Prof. R. K. Nagaria, ECED
51. Prof. P.K. Mehta, CED

Three persons, one of whom shall be a woman, not being employees of this Institute, to be nominated by the Chairperson in consultation with the Director, from amongst educationists of repute, one each from the field of science, engineering and humanities.

1. Prof. Sumathi Rao
Professor -Hç
Department of Physics
Harish-Chandra Research Institute
Chhatnag Road, Jhansi, Allahabad
- External Member

2. Prof. S. N. Singh
Professor
Department of Electrical Engineering
Indian Institute of Technology Kanpur
Kanpur
External Member
3. Prof. Partha Basu
Professor
Department of Humanities & Social Sciences
Indian Institute of Technology Kharagpur
Kharagpur
External Member

Registrar, Secretary of the Senate [Section 18[2] of the NITs Act]

- (i) Dr. Sarvesh K. Tiwari
Registrar [Officiating]
Motilal Nehru National Institute of Technology Allahabad
Secretary
[upto 02.12.2014]
- (ii) Col. Sanjiv Banerjee (Retd.)
Registrar
Motilal Nehru National Institute of Technology Allahabad
Secretary
[w.e.f. 03.12.2014]

THE STAFF

- 5.1 Academic Staff**
- 5.2 Administrative Officers**
- 5.3 Technical Staff**
- 5.4 Ministerial Staff**
- 5.5 Supporting Staff**

5.1 ACADEMIC STAFF

Head of Institution

Prof. P. Chakarbarti

Director

Professors		
Sl. No.	Name	Department
1.	Dr. S. K. Agrawal [Retd. on 30.04.2014]	Mechanical Engineering
2.	Dr. A. K. Mishra	Computer Science Engineering
3.	Dr. I. K. Bhat [On Leave]	Applied Mechanics
4.	Dr. R. K. Srivastava	Civil Engineering
5.	Dr. P. K. Mishra	Mechanical Engineering
6.	Dr. Sudarshan Tiwari [On Leave]	Electronics & Communication Engineering
7.	Dr. S. K. Duggal	Civil Engineering
8.	Dr. P. R. Agrawal [On Leave]	School of Management Studies
9.	Dr. Nirjhar Roy	Mechanical Engineering
10.	Dr. Vineeta Agarwal	Electrical Engineering
11.	Dr. Dinesh Chandra	Electrical Engineering
12.	Dr. R. K. Srivastava	Mechanical Engineering
13.	Dr. Rajeev Tripathi	Electronics & Communication Engineering
14.	Dr. M. M. Gore	Computer Science Engineering
15.	Dr. K. K. Shukla	Applied Mechanics
16.	Dr. Rakesh Narian	Mechanical Engineering
17.	Dr. Anuj Jain	Applied Mechanics
18.	Dr. N. D. Pandey	Chemistry
19.	Dr. Suneeta Agarwal	Computer Science Engineering
20.	Dr. [Ms.] Geetika	School of Management Studies
21.	Dr. R. K. Singh	Electrical Engineering
22.	Dr. Vinod Yadava	Mechanical Engineering
23.	Dr. R.P.Tiwari	Civil Engineering
24.	Dr. P.K. Dutta	Chemistry
25.	Dr. Haranath Kar	Electronics & Communication Engineering
26.	Dr. Anil Kumar Sachan	Civil Engineering
27.	Dr. P. P. Sahay	Physics
28.	Dr. A. K. Singh	Civil Engineering
29.	Dr. M. D. Singh [Retd. on 31.01.2015]	Mechanical Engineering
30.	Dr. R. D. Gupta	Civil Engineering
31.	Dr. A. D. Bhatt	Mechanical Engineering
32.	Dr. Sanjay Chaubey	Physics
33.	Dr. R. K. Tripathi	Electrical Engineering
34.	Dr. R. S. Yadav	Computer Science Engineering
35.	Dr. V. K. Srivastava	Electronics & Communication Engineering
36.	Dr. R. C. Vaishya	Civil Engineering
37.	Dr. Ram Pal Singh	Civil Engineering
38.	Dr. Niroj Banerjee	Humanities & Social Science
39.	Dr. H. S.Goyal	Mechanical Engineering
40.	Dr. Vijaya Bhdauria	Electronics & Communication Engineering
41.	Dr. NeerajTyagi	Computer Science Engineering
42.	Dr. Ravi Prakash	Mechanical Engineering
43.	Dr. Amit Dhawan	Electronics & Communication Engineering
44.	Dr. Shubhi Purwar	Electrical Engineering
45.	Dr. Shiv Dutt Kumar	Mathematics
46.	Dr. S. S. Narvi	Chemistry
47.	Dr. K. N. Pandey	Mechanical Engineering
48.	Dr. R. K. Nagaria	Electronics & Communication Engineering
49.	Dr. P.K. Mehta	Civil Engineering

Associate Professors		
Sl. No.	Name	Department
1.	Dr. Y. K. Gupta	Civil Engineering
2.	Dr. S. K. Poddar	Mechanical Engineering
3.	Sri Anirudh Narain	Electrical Engineering
4.	Dr. L. K. Mishra	Civil Engineering
5.	Dr. Mukul Shukla	Mechanical Engineering
6.	Dr. Paulson Samuel	Electrical Engineering
7.	Dr. S. N. Pandey	Physics
8.	Dr. Tanuj Nandan	School of Management Studies
9.	Dr. Pankaj Srivastava	Mathematics
10.	Sri Rajesh Tripathi	Computer Science Engineering
11.	Dr. Asheesh Kumar Singh	Electrical Engineering
12.	Dr. Rajesh Gupta	Electrical Engineering
13.	Dr. Ganesh Pd. Sahu	School of Management Studies
14.	Dr. Rakesh Kumar	Civil Engineering
15.	Dr. Manoj Kumar	Mathematics
16.	Dr. D. S. Kushawaha	Computer Science Engineering
17.	Dr. [Mrs.] Sadhana Sachan	Chemical Engineering
18.	Dr. G. K. Mehrotra	Chemistry
19.	Dr. Rajeev Srivastava	Mechanical Engineering
20.	Dr. Raj Mohan Singh	Civil Engineering
21.	Dr. Nand Kishor	Electrical Engineering
22.	Dr. Shivesh Sharma	Biotechnology
23.	Dr. Avanish Kumar Dubey	Mechanical Engineering
24.	Dr. Vijay Shankar Tripathi	Electronics & Communication Engineering
25.	Dr. Ram Awadh Mishra	Electronics & Communication Engineering
26.	Dr. Ambalika Sinha	Humanities & Social Science
27.	Dr. Arvind Agrawal	Physics
28.	Dr. Ravi Prakash Tiwari	Applied Mechanics
29.	Dr. Anil Kumar Singh	Computer Science Engineering
30.	Sri Manoj Wairiya	Computer Science Engineering
31.	Sri D. K. Yadav	Computer Science Engineering
32.	Dr. S. J. Pawar	Applied Mechanics
33.	Dr. Richa Negi	Electrical Engineering
34.	Dr. M. K. Khurana	Mechanical Engineering
35.	Dr. S. N. Pandey	Mathematics
36.	Dr. Anjana Pandey	Biotechnology

Assistant Professors		
Sl. No.	Name	Department
1.	Dr. Audhesh Narain	Mechanical Engineering
2.	Dr. Samir Saraswati	Mechanical Engineering
3.	Mrs. Vandana Agrawal	Mechanical Engineering
4.	Dr. Tripti Singh	School of Management Studies
5.	Dr. Rajesh K. Shastri	Humanities & Social Science
6.	Mr. Asim Mukharjee	Electronics & Communication Engineering
7.	Dr. Sumedha Chakma [Resigned on 04.03.2015]	Civil Engineering
8.	Dr. Kumar Venkatesh	Civil Engineering
9.	Dr. Mayank Pandey	Computer Science Engineering
10.	Dr. Ramesh Pandey	Applied Mechanics
11.	Dr. Mukesh Kumar	Mathematics
12.	Dr. S. Bholanath Mishra	Mechanical Engineering
13.	Dr. Sangeeta Negi	Biotechnology
14.	Dr. Vishnu Agarwal	Biotechnology
15.	Dr. Nand Kumar Singh	Biotechnology

16.	Dr. Hemant Kumar Pandey	Civil Engineering
17.	Dr. Sushil Kumar	Chemical Engineering
18.	Sri Anoj Kumar	Computer Science Engineering
19.	Mr. Arvind Kumar	Electronics & Communication Engineering
20.	Mr. Sandeep K. Harit	Computer Science Engineering
21.	Sri Rajeev Gupta	Electronics & Communication Engineering
22.	Dr. Gautam Ghosh	Civil Engineering
23.	Dr. V. Krishna Rao	Electronics & Communication Engineering
24.	Dr. Sahadev Padhye	Mathematics
25.	Dr. MohdSiraj Alam	Chemical Engineering
26.	Dr. Tamal Ghosh	Chemistry
27.	Dr. Venketeshwara Rao Koma	Mechanical Engineering
28.	Dr. Akshoy Ranjan Paul	Applied Mechanics
29.	Mr. Abhishek Kumar	Applied Mechanics
30.	Dr. Pitam Singh	Mathematics
31.	Mr. Nitin Singh	Electrical Engineering
32.	Dr. Ashutosh Pandey	Chemistry
33.	Dr. Naresh Kumar	Physics
34.	Dr. S.R. Mohanty	Electrical Engineering
35.	Dr. Priya Ranjan Pal	Civil Engineering
36.	Dr. Nek Ram Rawal	Civil Engineering
37.	Dr. Animesh Kumar Ojha	Physics
38.	Dr. Praveen Kumar Agrawal	Mechanical Engineering
39.	Dr. Jyotsana Sinha	Humanities & Social Science
40.	Dr. Ravindra Tripathi	Humanities & Social Science
41.	Dr. Piyali Ghosh	School of Management Studies
42.	Dr. VibhutiTripathi	School of Management Studies
43.	Dr. Rabindra Kumar Patel	Mechanical Engineering
44.	Dr. DharmendraK.Shukla	Mechanical Engineering
45.	Dr. Manisha Sachan	Biotechnology
46.	Dr. Seema Nara	Biotechnology
47.	Dr. Shalinee Shukla	Civil Engineering
48.	Dr. Varun Singh	Civil Engineering
49.	Dr. Rama Shankar	Civil Engineering
50.	Dr. Basant Kumar	Electronics & Communication Engineering
51.	Dr. AnindyaBhar	Applied Mechanics
52.	Dr. Ankur Gaur	Chemical Engg.
53.	Dr. Ashutosh Mani	Biotechnology
54.	Dr. Arun Prakash	Electronics & Communication Engineering
55.	Dr. Radha Rani Mewaram	Biotechnology
56.	Dr. Ambak Kumar Rai	Biotechnology
57.	Dr. Shweta Tripathi	Electronics & Communication Engineering
58.	Dr. Pragya Shandilya	Mechanical Engineering
59.	Dr. Gorakh Nath	Mathematics
60.	Dr. Yogendra Kumar Prajapati	Electronics & Communication Engineering
61.	Dr. Rahul Dev	Mechanical Engineering
62.	Dr. Buddakkagari Vasu	Mathematics
63.	Dr. Harinder Singh	Chemical Engineering
64.	Dr. Sameer Srivastava	Biotechnology
65.	Dr. Sanjay Kumar	Biotechnology
66.	Dr. Pramod Kumar Yadav	Mathematics
67.	Dr. Jagadish Chandra Mohanta	Mechanical Engineering
68.	Dr. Ashish Nivrittinath Sawarkar	Chemical Engineering
69.	Dr. Kumar Pallav	Civil Engineering
70.	Dr. V. Murari	Applied Mechanics
71.	Dr. Surabhi Tiwari	Mathematics
72.	Dr. Debolina Basu	Civil Engineering

73.	Dr. Manish Gupta	Mechanical Engineering
74.	Dr. Manish Tiwari	Electronics & Communication Engineering
75.	Dr. Ashutosh K. Upadhaya	Applied Mechanics
76.	Dr. Krishna Kumar Mishra	Computer Science Engineering
77.	Dr. Sanjeev Rai	Electronics & Communication Engineering
78.	Dr. Ran vijay	Computer Science Engineering
79.	Dr. Deepak Kumar	Electrical Engineering
80.	Dr. Karuppanan P.	Electronics & Communication Engineering
81.	Dr. Shashank Srivastava	Computer Science Engineering
82.	Dr. Bireswar Paul	Mechanical Engineering
83.	Dr. Suantak Kamsonlian	Chemical Engg.
84.	Dr. Santosh Kumar Gupta	Electronics & Communication Engineering

Assistant Professors [On Contract]		
Sl. No.	Name	Department
1.	Mr. Ajaya Bharti	Applied Mechanics
2.	Mr. Navneet Kumar Singh	Electrical Engineering
3.	Ms. Sonam Agarwal	Humanities & Social Science
4.	Mr. Vadthiya Narendar	Electronics & Communication Engineering
5.	Mr. Anupam Rawat	Civil Engineering
6.	Mr. Rupesh Kumar Dewang	Computer Science Engineering
7.	Ms. Santi Kumari Behera	Computer Science Engineering
8.	Mr. Manoj Kumar Gupta	Mechanical Engineering
9.	Mr. RamjiDwivedi	Humanities & Social Science
10.	Mr. Vijay Kumar	Civil Engineering
11.	Ms. Pragya Dwivedi	Computer Science & Engineering
12.	Mr. Sunil Kumar Gupta	Mechanical Engineering
13.	Mr. Jitendra Narayan Gangwar	Mechanical Engineering
14.	Mr. Divya Kumar	Computer Science & Engineering
15.	Mr. Dushyant Kumar Singh	Computer Science & Engineering
16.	Mr. ManoharYadav	GIS Cell
17.	Mr. Vishwajeet Pratap Singh	Civil Engineering
18.	Mr. Dinesh Singh	Computer Science & Engineering
19.	Mr. Mohammad Kaifi	Electronics & Communication Engineering
20.	Ms. Shashwati Banerjea	Computer Science & Engineering
21.	Mr. Shabih-UI-Hasan	Chemical Engg.
22.	Ms. Rajitha B.	Computer Science & Engineering
23.	Mr. Niraj Kumar Choudhary	Electrical Engineering
24.	Mr. M. Venkatesh Naik	Electrical Engineering
25.	Mr. Vivek Kumar Patel	Applied Mechanics
26.	Mr. Bhore Skylab Pavalas	Mechanical Engineering
27.	Mr. Binayaka Nahak	Mechanical Engineering

Heads of the Departments			
Sl. No.	Name	Department	Remarks
1.	Prof. Anuj Jain	Applied Mechanics	
2.	(i) Dr. Shivesh Sharma	Biotechnology	upto16.10.2014
	(ii) Dr. Anjana Pandey	Biotechnology	w.e.f.17.10.2014
3.	(i) Prof. P. K. Dutta	Chemistry	upto 08.04.2014
	(ii) Prof. S. S. Narvi	Chemistry	w.e.f. 09.04.2014
4.	(i) Prof. R. C. Vaishya	Chemical Engineering	upto 16.04.2014
	(ii) Dr. Sadhana Sachan	Chemical Engineering	w.e.f. 17.04.2014
5.	(i) Prof. Suneeta Agarwal	Computer Science & Engineering	upto30.06.2014
	(ii) Prof. R. S. Yadav	Computer Science & Engineering	w.e.f. 01.07.2014
6.	Prof. R. P. Tiwari	Civil Engineering	
7.	Prof. R. K. Tripathi	Electrical Engineering	
8.	Prof. H. Kar	Electronics & Communication Engineering	

9.	(i) Prof. A. K. Singh	Chairman, GIS Cell	upto31.07.2014
	(ii) Prof. R. C. Vaishya	Chairman, GIS Cell	w.e.f. 01.08.2014
10.	Prof. Niroj Banerji	Humanities & Social Sciences	
11.	Prof. R. K. Srivastava	Mechanical Engineering	
12.	Dr. S. N. Padey	Mathematics	
13.	(i) Prof. Sanjay Chaubey	Physics	upto 04.11.2014
	(ii) Dr. S. N. Pandey	Physics	w.e.f. 05.11.2014
14.	Prof. Geetika	School of Management Studies	

Deans			
Sl. No.	Name	Division	Remarks
1.	Prof. K. K Shukla	Academic	
2.	Prof. S. K. Duggal	Planning & Development	
3.	(i) Prof. Vinod Yadava	Research & Consultancy	upto14.12.2014
	(ii) Prof. R. K. Srivastava	Research & Consultancy	w.e.f. 15.12.2014
4.	(i) Prof. P. K. Mishra	Faculty Welfare	upto 31.08.2014
	(ii) Prof. Rakesh Narain	Faculty Welfare	w.e.f. 01.09.2014
5.	(i) Prof. M. M. Gore	Student Welfare	upto 24.10.2014
	(ii) Prof. R. P. Tiwari	Student Welfare	w.e.f. 27.10.2014
6.	(i) Prof. Dinesh Chandra	Resource Generation & International Affairs	upto 31.07.2014
	(ii) Prof. N. D. Pandey	Resource Generation & International Affairs	w.e.f. 01.08.2014

5.2 ADMINISTRATIVE OFFICERS

Sl. No.	Name	Designation	Remarks
1.	Col. Sanjiv Banerjee (Retd)	Registrar	[w.e.f. 03.12.2014]
2.	Dr. Sarvesh K. Tiwari	Registrar (Officiating) & Dy. Registrar (Academic)	[upto 02.12.2014]
3.	Shri Uma Shankar	Dy. Registrar [Accounts]	
4.	Shri Arvind Kumar Singh	Engineer [Electrical Maintenance]	
5.	Shri Raghvendra Singh	SAS Officer	
6.	Shri S.P. Verma	SAS Officer	
7.	Shri Prabhat Ranjan [On Leave]	Senior Technical Officer	
8.	Shri Abhay Singh	Programmer	
9.	Shri S.K. Srivastava	Foreman	
10.	Shri Satanand Yadav	Foreman	
11.	Shri Ritesh Sahu	Dy. Librarian	

5.3 TECHNICAL STAFF

Technical Assistant [SG-II]

1. Shri Trivikram
2. Shri D.K. Dwivedi
3. Shri Shri Kant
4. Shri Jeet Lal Yadav
5. Shri A.K. Agrawal

Technical Assistant [SG-I]

1. Shri Rajendra Prasad

Sr. Technical Assistant

1. Shri Harish Chandra
2. Shri S.N. Chaturvedi
3. Shri Pankaj Sikka

Sr. Technician

1. Shri Rama Shanker

Assistant Engineer

1. Shri K.N. Singh

J.E. [Civil M]

1. Shri Sanjay Singh

Technical Assistant

1. Smt. Anju Jha
2. Shri Manoj Singh Bonal
3. Shri Ashutosh Kr. Gupta
4. Smt. Sangeeta Rani
5. Shri Chedi Lal Patel

Technician [SG-I]

1. Shri Gyanandra Singh
2. Shri Shri Kant Tiwari
3. Shri S.L. Sharma

Sr. Technician

1. Shri Anurudh Bahadur
2. Shri Kamla Prasad
3. Shri Lal Bahadur Maurya
4. Shri Moti Lal
5. Shri Rakesh Gupta
6. Shri Uma Shanker
7. Shri Manoj Kr.Tripathi
8. Shri Hari Shanker
9. Shri Lal Bahadur Yadav
10. Shri Nand Lal Pal
11. Shri Ram Sajiwan
12. Shri Shiv Murat Yadav
13. Shri Ram Bahadur Yadav
14. Shri. D.N. Pandey
15. Shri Satya Narain Singh
16. Shri Brijesh Kumar
17. Shri Maqsood
[Retired on 30.06.2014]
18. Shri Bhola
19. Shri Ram Lakhan

Pharmacist [SG-II]

1. Shri G.S. Maurya

Sr. Pharmacist

1. Shri Vinod Kr. Mishra
2. Shri Ranjeet Kr. Nirbhai

5.4 MINISTERIAL STAFF**Superintendent [SG-II]**

1. Shri K.K. Shukla
[Retired on 31.07.2014]
2. Shri A.B. Singh
3. Shri D.N. Tiwari
[Retired on 31.07.2014]

Sr. Superintendent

1. Shri Shiva Kant Mishra
2. Shri B.L. Yadav
3. Shri B.D. Tripathi
4. Shri Abdul Shamim
[Retired on 30.04.2014]
5. Shri R.K. Pandey
6. Shri M.C. Singh
7. Shri Ram Naresh
8. Shri Ganga Prasad
9. Shri S.A. Farooqui

Superintendent

1. Shri Banwari Lal

2. Shri H.I. Malik
3. Shri Girja Shankar
4. Shri V.K. Gaur
5. Shri N.K. Prajapati [Retired on 28.02.2015]
6. Shri Sangam L. Kushwaha
7. Shri Viveka Nand
8. Shri Tribhwan N. Tripathi
9. Shri Babban Singh
10. Shri Amar Singh Yadav
11. Shri S.K. Gaur

Assistant [SG-I]

1. Shri Y.P. Tripathi
2. Shri Ram Adhar
3. Shri Shahid Irfan
4. Shri Ram Acharj Yadav
5. Shri Zia Uddin
6. Shri Shyam Babu
7. Shri S.K. Srivastava
8. Shri Shyam Lal Yadav
9. Shri Anil Kumar
10. Shri Mewalal
11. Shri Chandrabhan
12. Shri Shiv karan Patel
13. Shri Amrit Lal
14. Shri Subhas Ram

Assistant [SG-II]

1. Shri Sanjay Yadav

Sr. Assistant

1. Shri A.V.Pathak
2. Shri Vijai Pal
3. Shri Mohd.Saqib
4. Shri Bechan Ram
5. Shri Sangam Lal
6. Shri Anant Kr.Tiwari
7. Smt. Veena Singh
8. Smt Madhu Yadav
9. Shri Chet Ram Bhartiya
10. Shri Vinod Kumar
11. Shri Deepak Kumar

Sr. Secretary

1. Shri Nirmal Kr. Shukla

Secretary

1. Shri Ram Baran

5.5 SUPPORTING STAFF**Attendant**

1. Shri T. N. Shukla
2. Shri Om Prakash Yadav
3. Shri S. R. Kushwaha
4. Shri Riyaz Ahmad

5. Shri. Tribhuvan Singh Yadav
6. Shri Mahesh Kumar
7. Shri Jeet Lal II
8. Shri Gyan Chandra
9. Shri Ram Nath
10. Shri Paras Nath
11. Shri S. N. Shukla
12. Shri Naresh Chandra
13. Shri Laxmi Kant
[Expired on 09.05.2014]
14. Shri D. S. Mishra
15. Shri K. P. Maurya
16. Shri R. S. Pal
17. Shri Ram Dulare
18. Shri Jhalloo Lal
19. Shri Amar Nath
20. Shri Satya Narain
21. Shri Sudhakar Tiwari
22. Shri Raja Ram
23. Shri Phool Chandra
24. Shri Nankoo Ram
25. Shri Amar Nath Patel
26. Shri Om Prakash
27. Shri Prem Chandra
28. Shri Paras Nath Saroj
29. Shri Jagdish Prasad
30. Shri Ram Naresh
31. Shri Diwakar Tiwari
32. Shri Ramesh Chandra Pal
33. Shri O. P. Parashar
34. Shri Rakesh Kr. Mishra
35. Shri Masuriya Deen Maurya
36. Shri Radhey Shyam
37. Shri Rajendra Kumar
38. Shri Parmanand
39. Shri Ramesh
40. Smt. Sheela
41. Shri Ram Dulare
42. Smt. Nirmala Devi
43. Shri Ranjeet
44. Smt. Bittan Devi
45. Shri Shankar Lal
46. Shri Anil
47. Shri Suresh
48. Shri Raju
49. Shri Parkash
50. Shri Kailash
51. Shri Rajendra Pd
52. Shri Pappu Lal
53. Shri Rajesh
54. Shri Mohan Lal
55. Shri Banwari Lal
56. Shri Mobeen Ahmad
57. Shri Lallu
58. Shri Sangam Lal Yadav
59. Shri Brij Mohan Yadav
60. Shri Ram Mani Yadav
61. Shri Lalloo
62. Shri Harish Chandra Pal
63. Shri Raj Narian Kashyap
64. Smt Urmila Devi
65. Smt. Raj Kali
66. Shri Ram Nath pal
67. Shri Jeet Lal Yadav
68. Shri Jahli Singh
69. Shri Druyadhan Lal
70. Shri Nand Lal Prajapati
71. Shri H.C. Maurya
72. Shri Nand lal
73. Shri Monu Jeet Dayal
74. Shri Ramakant pal
75. Shri Hari Lal Yadav
76. Shri Jagan Nath alies Lallu
77. Shri Husala Pd
78. Shri Shobh Nath Maurya
79. Shri Jag Lal
80. Shri Gulab Chandra
81. Shri Pawan Kr. Mishra
82. Smt. Geeta Devi
83. Shri Ram Sanahi Maurya
84. Smt. Kaushalya Devi
85. Shri Om Parkash Yadav
86. Shri Rajendra Pd.
87. Shri Soraj
88. Shri Shyam Lal Pal
89. Shri Ram Jatan Maurya

ACADEMIC PROGRAMMES

- 6.1 Bachelor of Technology (B.Tech.)**
- 6.2 Master of Technology (M.Tech.)**
- 6.3 Master of Business Administration (MBA)**
- 6.4 Master of Computer Applications (MCA)**
- 6.5 Master of Science (M.Sc.)**
- 6.6 Master of Social Work (MSW)**
- 6.7 Doctoral Programmes (Ph.D)**

**6.1 BACHELOR OF TECHNOLOGY (B.Tech.)
DEGREE COURSES (4 Years / 8 Semesters)**

- (i) Biotechnology
- (ii) Chemical Engineering
- (iii) Civil Engineering
- (iv) Computer Science Engineering
- (v) Electrical Engineering
- (vi) Electronics and Communication Engineering
- (vii) Information Technology
- (viii) Mechanical Engineering
- (ix) Production & Industrial Engineering

**6.2 MASTER OF TECHNOLOGY (M.Tech.)
DEGREE COURSE**

Regular (2 Years/ 4 Semesters)

Applied Mechanics Department

- (i) Applied Mechanics
- (ii) Biomedical Engineering
- (iii) Fluids Engineering
- (iv) Material Science and Engineering

Biotechnology Department

- (i) Biotechnology

Civil Engineering Department

- (i) Civil Engineering (Environmental Engineering)
- (ii) Civil Engineering (Geo-Technical Engineering)
- (iii) Civil Engineering (Structural Engineering)
- (iv) Civil Engineering (Environmental Geo-technology)

**Computer Science Engineering
Department**

- (i) Computer Science Engineering
- (ii) Software Engineering
- (iii) Information Security

Electrical Engineering Department

- (i) Electrical Engineering (Control & Instrumentation)
- (ii) Electrical Engineering (Power Electronics & ASIC Design)
- (iii) Electrical Engineering (Power System)

**Electronics and Communication
Engineering Department**

- (i) Electronics Engineering (Digital System)
- (ii) Electronics Engineering (Microelectronics and VLSI Design)
- (iii) Electronics Engineering (Communication System)

Mechanical Engineering Department

- (i) Mechanical Engineering (Design)
- (ii) Mechanical Engineering (Production Engineering)
- (iii) Mechanical Engineering (Computer Aided Design and Manufacturing)
- (iv) Mechanical Engineering (Product Design & Development)

GIS Cell

- (i) GIS and Remote Sensing

Part-Time (3 Years/ 6 Semesters)

Civil Engineering Department

- (i) Civil Engineering (Environmental Engineering)

**Computer Science Engineering
Department**

- (i) Software Engineering

Electrical Engineering Department

- (i) Electrical Engineering (Power Electronics & ASIC Design)

Mechanical Engineering Department

- (i) Mechanical Engineering (Production Engineering)

**6.3 MASTER OF BUSINESS
ADMINISTRATION (MBA), (2 Years/ 4
Semesters)**

Following specializations are offered:

- (i) Finance
- (ii) Marketing
- (iii) Human Resource
- (iv) Systems
- (v) Productions and Operations
- (vi) Engineering Management

**6.4 MASTER OF COMPUTER
APPLICATIONS (MCA), (3 Years/ 6
Semesters)**

- (i) Computer Science and Engineering

**6.5 MASTER OF SCIENCE (M.Sc.), (2 Years/ 4
Semesters)**

- (i) Mathematics and Scientific Computing

**6.6 MASTER OF SOCIAL WORK (MSW), (2
Years/ 4 Semesters)**

Following specializations are offered:

- (i) Human Resource Management
- (ii) Rural Development & Micro-finance

6.7 DOCTORAL PROGRAMMES (Ph.D.)

MNNIT Allahabad has been growing rapidly as a highly reputed academic institution and research is an integral aspect. Therefore to promote Doctoral Programme, Institute Fellowships have been established, which are distributed among all the departments. Besides, number of off-campus and non-stipendiary admission to these Doctoral Programmes is also made to facilitate faculty from other Institutes

and Industry personnel. Teachers from other institutions also come here to pursue M.Tech. and Ph.D. in various Departments, under QIP scheme. Large number of senior executives from industry also joins under self sponsored category. In Addition to regular academic programs, the Institute organizes seminars, conferences, symposia and also extends expert consultancy to industries and institutions.

STUDENTS' DETAIL

- 7.1 Intake**
- 7.2 Admission Procedure**
- 7.3 Course-wise Enrolment**
- 7.4 Admission Statistics**
- 7.5 Student Strength**
- 7.6 Performance in Examination**
- 7.7 Gold Medals**

7.1 INTAKE

Name of Programme	Branch	Intake
Bachelor of Technology (B. Tech.)	Biotechnology	46
	Chemical Engineering	46
	Civil Engineering	92
	Computer Science Engineering	154
	Electrical Engineering	77
	Electronics & Communication Engineering	138
	Information Technology	92
	Mechanical Engineering	123
	Production & Industrial Engineering	46
Master of Technology (M.Tech)	Including all Branches	556
Master of Computer Application (MCA)		93
Master of Business Administration (MBA)		93
Master of Science	Mathematics and Scientific Computing	23
Master of Social Work		23
Doctor of Philosophy (Ph.D.)	Including all Branches	100

7.2 ADMISSION PROCEDURE

Programme	Admission Through
B.Tech.	AIEEE (CSAB, DASA, ICCR, MEA, etc.)
M.Tech.	CCMT and Institute Entrance Examination
MCA	NIMCET
MBA	CAT
M.Sc.	JAM
MSW	Institute Entrance Examination
Ph.D.	Institute Entrance Examination and QIP Centre

7.3 COURSE-WISE ENROLMENT WITH SEX, SC/ST BREAK-UP 2014-2015

Programme	Intake	Males			Females			Total		
		Gen	OBC	SC/ST	Gen	OBC	SC/ST	Gen	OBC	SC/ST
UG										
B.Tech. I st Year	814	325	191	156	60	25	23	385	216	179
B.Tech. II nd Year	814	336	202	150	59	20	29	395	222	179
B.Tech. III rd Year	814	352	203	155	53	15	27	405	218	182
B.Tech. IV th Year	814	335	212	161	57	22	18	392	234	179
Total	1348	808	622	229	82	97	1577	890	719	

Additional Foreign Admission in UG Programme through DASA, ICCR, etc.

Programme	Males	Females	Total
B.Tech. 1 st Year	103	07	110
B.Tech. 2 nd Year	89	07	96
B.Tech. 3 rd Year	80	13	93
B.Tech. 4 th Year	65	12	77
Total	337	39	376

Programme	Intake	Males			Females			Total		
		Gen	OBC	SC/ST	Gen	OBC	SC/ST	Gen	OBC	SC/ST
PG										
M.Tech. I st Year	631	156	113	65	29	16	13	185	129	78
M.Tech. II nd Year	556	164	121	82	31	11	14	195	132	96
Total	320	234	147	60	27	27	380	261	174	

Programme PG	Intake	Males			Females			Total		
		Gen	OBC	SC/ST	Gen	OBC	SC/ST	Gen	OBC	SC/ST
MCA I st Year	93	23	21	13	19	09	05	42	30	18
MCA II nd Year	93	22	24	17	22	02	04	44	26	21
MCA III rd Year	93	23	15	20	24	10	01	47	25	21
Total		68	60	50	65	21	10	133	81	60

Programme PG	Intake	Males			Females			Total		
		Gen	OBC	SC/ST	Gen	OBC	SC/ST	Gen	OBC	SC/ST
MBA Ist Year	93	21	06	13	16	07	01	37	13	14
MBA II nd Year	93	19	11	09	17	10	01	36	21	10
Total		40	17	22	33	17	02	73	34	24

Programme PG	Intake	Males			Females			Total		
		Gen	OBC	SC/ST	Gen	OBC	SC/ST	Gen	OBC	SC/ST
M.Sc. Ist Year	23	05	04	01	06	01	02	11	05	03
M.Sc. II nd Year	23	08	03	03	04	01	01	12	04	04
Total		13	07	04	10	02	03	23	09	07

Programme PG	Intake	Males			Females			Total		
		Gen	OBC	SC/ST	Gen	OBC	SC/ST	Gen	OBC	SC/ST
MSW Ist Year	23	01	01	01	02	01	01	03	02	02
MSW II nd Year	23	03	02	01	05	00	00	08	02	01
Total		04	03	02	07	01	01	11	04	03

7.4 ADMISSION STATISTICS FOR UG/PG/Ph.D. PROGRAMMES 2014-2015

Programme	Male	Female	Total
B.Tech.	3115	447	3562
M.Tech.	701	114	815
MCA	178	96	274
MBA	79	52	131
M.Sc.	24	15	39
MSW	09	09	18
Ph.D.	286	99	385
Total	4392	832	5224

7.5 STUDENT STRENGTH 2014-2015

Courses	Actual Student Strength
B.Tech.	3562
M.Tech.	815
MCA	274
MBA	131
M.Sc.	39
MSW	18
Ph.D.	385
Total	5224

7.6 PERFORMANCE IN EXAMINATION

Courses	Appeared	Passed
B.Tech.	846	792
M.Tech.	377	377
MCA	84	79
MBA	80	80
M.Sc.	05	05
MSW	09	09
Ph.D.	98	98

7.7 GOLD MEDALS

Gold Medals for Post Graduate Examination-2014

1. Gold Medal awarded to Naman Agarwal [Registration No. 2012AM06] for standing first at M.Tech. Applied Mechanics, Final Examination 2014. (CPI 9.07)
2. Gold Medal awarded to Gourishetti Ravali [Registration No. 2012BM04] for standing first at M.Tech. Biomedical Engineering, Final Examination 2014. (CPI 9.56)
3. Gold Medal awarded to Subhashis Nandy [Registration No. 2012FE06] for standing first at M.Tech. Fluids Engineering, Final Examination 2014. (CPI 9.63)
4. Gold Medal awarded to Kishor Kalauni [Registration No. 2012MT05] for standing first at M.Tech. Material Science & Engineering, Final Examination 2014. (CPI 8.98)
5. Gold Medal awarded to Aditya Kanwal [Registration No. 2012BT09] for standing first at M.Tech. Biotechnology, Final Examination 2014. (CPI 9.29)
6. Gold Medal awarded to Gunjan Gautam [Registration No. 2012BT04] for standing first at M.Tech. Biotechnology, Final Examination 2014. (CPI 9.29)
7. Gold Medal awarded to Ekta Panjwani [Registration No. 2012EN17] for standing first at M.Tech. Civil Engineering (Environmental Engineering), Final Examination 2014. (CPI 9.3)
8. Gold Medal awarded to Abhishek Dixit [Registration No. 2012GE15] for standing first at M.Tech. Civil Engineering (Geotechnical Engineering), Final Examination 2014. (CPI 9.55)
9. Gold Medal awarded to Khyati Sahu [Registration No. 2012ST10] for standing first at M.Tech. Civil Engineering (Structural Engineering), Final Examination 2014. (CPI 9.35)
10. Gold Medal awarded to Vinay Kumar Verma [Registration No. 2012GI12] for standing first at M.Tech. GIS and Remote Sensing, Final Examination 2014. (CPI 9.85)
11. Gold Medal awarded to Surinder Kaur [Registration No. 2012CS13] for standing first at M.Tech. Computer Science & Engineering, Final Examination 2014. (CPI 9.83)
12. Gold Medal awarded to Himanki Jain [Registration No. 2012IS22] for standing first at M.Tech. Information Security, Final Examination 2014. (CPI 9.56)
13. Gold Medal awarded to Sunny Singh [Registration No. 2012SW11] for standing first at M.Tech. Software Engineering, Final Examination 2014. (CPI 9.78)
14. Gold Medal awarded to Vikash Singh [Registration No. 2012EE22] for standing first at M.Tech. Electrical Engineering (Control & Instrumentation), Final Examination 2014. (CPI 9.56)
15. Gold Medal awarded to Nripendra Kumar Verma [Registration No. 2012PE08] for standing first at M.Tech. Electrical Engineering (Power Electronics & ASIC Design), Final Examination 2014. (CPI 9.44)
16. Gold Medal awarded to Adhishree [Registration No. 2012EE02] for standing first at M.Tech. Electrical Engineering (Power System), Final Examination 2014. (CPI 9.82)
17. Gold Medal awarded to Siddhant Srivastava [Registration No. 2012CM07] for standing first at M.Tech. Electronics Engineering (Communication Systems), Final Examination 2014. (CPI 9.82)
18. Gold Medal awarded to Priyank Khare [Registration No. 2012EL02] for standing first at M.Tech. Electronics Engineering (Digital Systems), Final Examination 2014. (CPI 9.97)
19. Gold Medal awarded to Arpit Jain [Registration No. 2012VL12] for standing first at M.Tech. Microelectronics and VLSI Design, Final Examination 2014. (CPI 9.53)
20. Gold Medal awarded to Lucky Agarwal [Registration No. 2012VL02] for standing

- first at M.Tech. Microelectronics and VLSI Design, Final Examination 2014. (CPI 9.53)
21. Gold Medal awarded to Nitesh Asthana [Registration No. 2012CC06] for standing first at M.Tech. Mechanical Engineering (Computer Aided Design and Manufacturing), Final Examination 2014. (CPI 9.75)
 22. Gold Medal awarded to Nirmal Garg [Registration No. 2012DN19] for standing first at M.Tech. Mechanical Engineering (Design), Final Examination 2014. (CPI 9.4)
 23. Gold Medal awarded to Ajaya Ketan Nayak [Registration No. 2012PD19] for standing first at M.Tech. Mechanical Engineering (Product Design and Development), Final Examination 2014. (CPI 9.7)
 24. Gold Medal awarded to Akash Nazaar [Registration No. 2012PR15] for standing first at M.Tech. Mechanical Engineering (Production Engineering), Final Examination 2014. (CPI 9.1)
 25. Gold Medal awarded to Sanatan Srivastava [Registration No. 2012MB30] for standing first at Master of Business Administration, Final Examination 2014. (CPI 9.77)
 26. Gold Medal awarded to Monika Jalota [Registration No. 2011CA27] for standing first at Master of Computer Applications, Final Examination 2014. (CPI 9.44)
 27. Gold Medal awarded to Sumeeta Singh [Registration No. 2012MSC02] for standing first at Master of Science (Mathematics & Scientific Computing), Final Examination 2014. (CPI 9.29)
 28. Gold Medal awarded to Divya Rai [Registration No. 2012MW07] for standing first at Master of Social Work, Final Examination 2014. (CPI 9.59)
 29. Gold Medal awarded to Suhail Taiyyeb [Registration No. 2011PTEN01] for standing first at M.Tech. (Part-time) Civil Engineering (Environmental Engineering) Final Examination 2014. (CPI 9.75)
 30. Gold Medal awarded Pankaj Gupta [Registration No. 2011PTEE06] for standing first at M.Tech. (Part-time) Electrical Engineering (Control & Instrumentation), Final Examination 2014. (CPI 9.39)
 31. Gold Medal awarded Ram Mohan Sharma [Registration No. 2011PTPE03] for standing first at M.Tech. (Part-time) Electrical Engineering (Power Electronics & ASIC Design), Final Examination 2014. (CPI 9.56)
 32. Gold Medal awarded to Pallvita Yadav [Registration No. 2011PTPR07] for standing first at M.Tech. (Part-time) Mechanical Engineering (Production Engineering), Final Examination 2014. (CPI 8.25)
- Gold Medals for Under Graduate Examination – 2014**
- (i) Gold Medal awarded to Vishwas Mishra [Registration No. 20100013] for standing first at B.Tech. (Biotechnology), Final Examination 2014. (CPI 9.14)
 - (ii) Gold Medal awarded to Ruby Gupta [Registration No. 20100056] for standing first at B.Tech. (Chemical Engineering), Final Examination 2014. (CPI 9.06)
 - (iii) Gold Medal awarded to Sandeepika Yadav [Registration No. 20109033] for standing first at B.Tech. (Civil Engineering), Final Examination 2014. (CPI 9.51)
 - (iv) Gold Medal awarded to Pakhi Agarwal [Registration No. 20104095] for standing first at B.Tech. (Computer Science and Engineering), Final Examination 2014. (CPI 9.58)
 - (v) Gold Medal awarded to Anchika Agarwal [Registration No. 20100012] for standing first at B.Tech. (Information Technology), Final Examination 2014. (CPI 9.31)
 - (vi) Gold Medal awarded to Rahul Syal [Registration No. 20108011] for standing first at B.Tech. (Electrical Engineering), Final Examination 2014. (CPI 9.31)
 - (vii) Gold Medal awarded to Ayushi Agarwal [Registration No. 20105002] for standing first at B.Tech. (Electronics and Communication Engineering), Final Examination 2014. (CPI 9.65)
 - (viii) Gold Medal awarded to Archan Mudwel [Registration No. 20108004] for standing first at B.Tech. (Mechanical Engineering), Final Examination 2014. (CPI 9.73)
 - (ix) Gold Medal awarded to Anil Verma [Registration No. 20100030] for standing first at B.Tech. (Production and Industrial Engineering), Final Examination 2014. (CPI 9.24)

INSTITUTE GOLD MEDAL

- (i) Institute Gold Medal awarded to Archan Mudwel [Registration No. 20108004] of B.Tech. (Mechanical Engineering) for standing first amongst students of all branches of the Institute Final Examination 2014. (CPI 9.73)

Gold Medals – 2014 for Under Graduate

- (i) Gold Medal awarded to Mayank Mittal [Registration No. 20111074] of B.Tech. (Electronics and Communication Engineering) for standing first at B.Tech.
 - (ii) Gold Medal awarded to Priyanshu Srivastava [Registration No. 20124064] of B.Tech. (Computer Science and Engineering) for standing first at B.Tech. Second Year Examination 2014. (CPI 9.9)
 - (iii) Gold Medal awarded to Aman Verma [Registration No. 20138047] of B.Tech. (Information Technology) for standing first at B.Tech. First Year Examination 2014. (CPI 9.34)
- Third Year Examination 2014. (CPI 9.75)

RESEARCH AND DEVELOPMENT ACTIVITIES

- 8.1 Research and Consultancy (R&C) Cell**
- 8.2 Research Projects**
- 8.3 Sponsored Research Projects Completed**
- 8.4 Consultancy Projects**
- 8.5 TEQIP-II**
- 8.6 Institute Industry Interaction (III) Cell**

8.1 RESEARCH AND CONSULTANCY (R & C) CELL

Knowledge of latest research innovations is the key for developing the technical manpower of the nation due to the overgrowing demand of industry for research oriented technocrats. With this motto, the Research and Consultancy Cell at this Institute has grown significantly. Our faculty members and researchers are actively participating in Research and Development projects. Institute faculty provides a variety of consultancy and testing services to various public and private industries and also to construction departments of the State and the Central Governments. The Institute is well-endowed with high-quality equipment and advanced computing facilities. International collaborations with some leading universities and industries by the Institute provide an exciting platform for generating ideas and concepts, which are required for meaningful research.

Over the last decade, rapid advancement in computational power coupled with availability of high end, low cost CAE software, has contributed largely to the development of research and consultancy in different areas of engineering and management at this Institute. Theses and developmental research oriented activities have made a significant contribution in enriching researchers by sharing of knowledge of theory and fundamentals through mutual interactions by way of consultancy and testing projects.

Some of the activities of the Research and Consultancy Cell of the Institute are:

Sl.No.	Activities
1.	To frame and revise rules for Research & Consultancy.
2.	To provide guidance for submitting sponsored research proposals to funding agencies such as DST, BARC, BRNS, ISRO, DRDO, AR & DB etc.
3.	Recruitment and management of project staff.
4.	Arranges special lecture of Academic, Research and Industrial relevance for latest knowledge.
5.	Managing Institute funded research projects for newly joined faculty members.
6.	Conducting sensitization workshop for the faculty members to enhance the number of externally funded research projects.

8.2 RESEARCH PROJECTS

The Institute receives a large number of research projects from various organizations including SERB, HSMI, DBT, CSIR, ICSSR, CST Lucknow, DRDO, MNRE, UPPCB, UGC, AR & DB, ADA Bangalore, MBHM Mumbai and DIT Institutional Research has been further boosted by the Institute to new faculty members. During the year 2014-15, there were 14 Externally Funded Research Projects sanctioned in the Institute amounting to about ₹ 3.10 crores. During this year, the Institute received total number of 318 testing and consultancy projects worth ₹ 1.67 crores.

List of externally funded research projects is given in **Annexure 6**.

8.3 SPONSORED RESEARCH PROJECTS COMPLETED

Sl. No.	Projects
1.	Title of the Project: Ambient Air Quality Monitoring and Noise Monitoring Project. Funding Agency: UPPCB, Lucknow Name of the P.I. and Department: Dr. R.P. Singh, Civil Engineering Department. Date of Commencement: 20.12.2011 Duration of Completion: 02 Years
2.	Title of the Project: Bio-restoration technology based on the management of plant microbe soil interactions for the restoration of degraded ecosystems. Funding Agency: DBT New Delhi. Name of the P. I. and Department: Dr. Shivesh Sharma, Department of Biotechnology. Date of Commencement: 27.09.2013 Duration of Completion: 1 Year and 6 Months
3.	Title of the Project: Degradation of days wastewater through Combination of Ozonation and Anaerobic Biodegradation. Funding Agency: DST, New Delhi. Name of the P.I. and Department: Ms. Smita Venkatesh, Department of Chemistry. Date of Commencement: 27.12.2011 Duration of Completion: 3 Years
4.	Title of the Project: Graded Modules Over Rings Graded By Finitely Generated Abelian Groups.

- Funding Agency:** DST, New Delhi.
Name of the P.I. and Department: Dr. Shiv Dutt Kumar, Department of Mathematics.
Date of Commencement: 27.09.2011
Duration of Completion: 3 Years
5. **Title of the Project:** Hydrogen Production through biological routes
Funding Agency: MNRE, New Delhi.
Name of the P.I. and Department: Dr. Anjana Pandey, Department of Biotechnology.
Date of Commencement: 25.09.2012
Duration of Completion: 05 Years
6. **Title of the project:** Functionalization of wheat grains for enhancement of bio available micronutrients through reduction of phytic acid food inhibitor.
Funding Agency: DST, New Delhi
Name of the P.I. and Department: Dr. Nand Kumar Singh, Department of Biotechnology.
Date of Commencement: 12.03.2012
Duration of Completion: 03 Years
7. **Title of the project:** Finite Element Approximation and Computer Implementation for Non-Linear Elliptic Singular Perturbation Problems with Engineering Application.
Funding Agency: CSIR, New Delhi
Name of the P.I. and Department: Dr. Manoj Kumar, Department of Mathematics
Date of Commencement: 24.04.2011
Duration of Completion: 03 Years
8. **Title of the project:** Process Development for Cellulosic Ethanol Production from Himalayan Chir Pin (Pinus Roxburghii) Forest Wastes.
Funding Agency: DST, New Delhi
Name of the P.I. and Department: Dr. Sangeeta Negi, Department of Biotechnology.
Date of Commencement: 14.03.2012
Duration of Completion: 03 Years
Title of the project: Studies on Reactivity of Selected Drugs and Correlation with Their Activity.
Funding Agency: DST, New Delhi
Name of the P.I. and Department: Ms. N. C. Bhanumati, Department of Chemistry
Date of Commencement: 02.04.2012
- Duration of Completion:** 03 Years
9. **Title of the project:** Synthesis and characterization of Metal-Oxide Semiconducting Nanostructures with Happropriate Doping for various applications.
Funding Agency: UGC, New Delhi
Name of the P.I. and Department: Prof. P.P.Sahay, Department of Physics
Date of Commencement: 01.07.2011
Duration of Completion: 03 Years
10. **Title of the project:** Establishment of New National MEMS Design Centres (PARC# 2:10) Sanction Under NP-MASS Programme.
Funding Agency: Aeronautical Development Agency, Bangalore
Name of the P.I. and Department: Dr. Shweta Tripathi, Department of Electronics & Communication Engineering.
Date of Commencement: 30.12.2009
Duration of Completion: 05 Years
-
- 8.4 CONSULTANCY PROJECTS**
- The Institute allows consultancy projects from various Government, Private, Multinational Companies and Non Government Organizations for faculty members. The Consultancy project fee is distributed on sharing basis. In this financial year the Institute received consultancy form from various clients such as Irrigation Dept., P.W.D, U.P. Awas Vikas Parishad, Nagar Nigam, Rites, N.C. Railway, ADA, Power Grid Corporation Ltd., Ganga Pollution Control Unit, UP Jal Nigam, Ministry of Housing & Urban Poverty Alleviation, GoI, New Delhi and many others. Total fee received from the consultancy projects was approx. ₹ 1.67 crore. Detail of consultancy is given in **Annexure 7**.
- 8.5 TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP-II)**
- Technical Education Quality Improvement Programme (TEQIP) was envisaged as a long-term programme of about 10-12 years duration to be implemented in 2-3 phases for transformation of the Technical Education System with the World Bank assistance.
- As per TEQIP design, each phase is required to be designed on the basis of lessons learnt from

the implementation of an earlier phase. TEQIP-I started a reform process in 127 Institutions. The reform process needs to be sustained and scaled-up for embedding gains in the system and taking the transformation to a higher level. To continue the development activities initiated through TEQIP-I, a sequel Project is planned as TEQIP-II.

Objectives

The Project has following objectives:

- (i) Strengthening Institutions to produce high quality engineers for better employability.
- (ii) Scaling-up postgraduate education and demand- driven Research & Development and Innovation.
- (iii) Establishing Centres of Excellence for focused applicable research.
- (iv) Training of faculty for effective Teaching.
- (v) Enhancing Institutional and System Management effectiveness.

During the year 2014-15 around 27 faculty members attended Faculty Development Programme inside and outside the country (under TEQIP-II). Innovative Research Project sanctioned through office of Dean (R&C) during the period of 2014-15 and financially supported by TEQIP-II funds were around ₹ 70.00 Lakhs. There were around 20 Conferences/Seminars/ Workshops/Short Term Courses conducted in the Institute under TEQIP-II. Equipments amounting to about ₹ 52,37,939.00 were procured from TEQIP-II funds.

8.6 INSTITUTE INDUSTRY INTERACTION (III) CELL

The Institute Industry Interaction Cell was established in the Institute in the year 1989

under the scheme of Institute Industry Interaction, Ministry of Human Resource Development. The main objectives of the Cell are:

- (i) To interact with the industries to know the technology used by them so as to modify the curriculum.
- (ii) To send the faculty members to the industry for training under faculty exchange programme.
- (iii) To offer special courses to the engineers of the industries.
- (iv) To take R & D work from the industries and to involve staff members to deal with the industrial problems.

The Cell is equipped with the infrastructure facilities which are necessary for R & D projects and liaison with industries. The III Cell also promotes staff members to visit industries to get first hand technological information and also identify industrial problems which can be handled by the Institute staff. The Cell also makes constant efforts to develop a win-win relationship with industries.

Fulfilling the above mentioned objectives, some of the activities performed during the year were as follows:

- (i) Memorandum of Understanding (MoU) finalized between Carbon Navigator, Chennai and MNNIT, Allahabad.
- (ii) Project of Solid Waste Management already taken up under this MoU.
- (iii) Discussions for MOU with IFFCO, Phulpur, Allahabad is under progress.
- (iv) Numerous Industries have been contacted and discussions are in various stages for long term MoU.

**CONCESSIONS FOR SC/ST / OBC & PHYSICALLY
CHALLENGED STUDENTS /STAFF**

- 9.1 Scholarship and Assistantship Provided for Students**
- 9.2 Concessions Provided for Staff**

9.1 CONCESSIONS PROVIDED FOR STUDENTS

Seats are reserved for SC/ ST/ OBC and Physically Challenged students for the undergraduate and postgraduate courses as per Central Government norms. The Government also provides scholarships to SC/ST students.

Student Activities

During the Financial Year 2014-15 under review, a sum of ₹ 9,61,049.00 was sanctioned for students activities from Student Welfare Fund.

Financial Help

- (i) During the Financial Year 2014-15 under review, ₹ 9,86,000.00 was sanctioned towards aids to fifty eight students.
- (ii) Scholarship worth ₹ 13,26,756.00 was sanctioned to 12 students by Ministry of Social Justice and Empowerment, New Delhi during the Session 2014-15.

Gold Medal

During the Financial Year 2014-15 under review, 17 students were awarded Gold Medals worth ₹ 45,071.00.

Scholarship and Assistantship

Sl. No.	Department	Place	No. of students	Total Amount (INR)
	District Social Welfare office	Allahabad		
(i)	O.B.C student		395	Scholarship + Tuition Fee
(ii)	SC/ST student		206	Scholarship + Tuition Fee
(iii)	General student		319	Scholarship + Tuition Fee
(iv)	Minority student		31	Scholarship + Tuition Fee
	MNNIT	Allahabad		
(i)	M.Tech. 1 st year		128	₹ 12,400/- per month
(ii)	Ph.D 1 st year (Engineering)		39	₹ 25,000/- per month & ₹ 28000/- per month
	O.P. Gems		3	₹ 85,000/- per student + Certificate and Gold Medal
	Merit Scholarship	MNNIT Allahabad	253	₹ 3000/- per student and Merit Certificate
	Received Scholarship (Other State)			
(i)	N.C.E.R.T	Delhi	4	₹ 1,60,000/-
(ii)	NTSE	Delhi	1	₹ 84,000/-
(iii)	State Government	Bihar	12	₹ 9,99,440/-
(iv)	State Government	M.P.	8	₹ 3,70,000/-
(v)	State Government	Dehradun	3	₹ 1,21,500/-
(vi)	State Government	Faridabad	1	₹ 76,400/-
(vii)	State Government	Chhattisgarh	1	₹ 81,960/-
(viii)	Indian Oil Corporation	Delhi	5	₹ 4,30,000/-
(ix)	ONGC	Dehradun	2	₹ 1,20,000/-
(x)	Central Sector Scholarship	MHRD, New Delhi	54	(a) Annual Fee (b) Other Non Refundable charge (c) Lodging & Boarding Charge (d) Books & Stationery. (e) Computer
(xi)	Physically Challenged Student	NEFD	06	₹ 2,86,000/-

9.2 CONCESSIONS PROVIDED FOR STAFF

Institute provides reservation in appointment of

teaching and non-teaching staff as per MHRD / Govt. of India orders/ guidelines issued from time to time

- 10.1 Department of Applied Mechanics**
- 10.2 Department of Biotechnology**
- 10.3 Department of Civil Engineering**
- 10.4 Department of Chemical Engineering**
- 10.5 Department of Chemistry**
- 10.6 Department of Computer Science & Engineering**
- 10.7 Department of Electronics & Communication Engineering**
- 10.8 Department of Electrical Engineering**
- 10.9 GIS Cell**
- 10.10 Department of Humanities & Social Sciences**
- 10.11 Department of Mathematics**
- 10.12 Department of Mechanical Engineering**
- 10.13 Department of Physics**
- 10.14 School of Management Studies**

10.1 DEPARTMENT OF APPLIED MECHANICS

Vision

To establish itself as a Department recognised for its quality post graduate education and research in the broad field of Applied Mechanics and Materials.

Mission

To produce high quality human resource in the area of Applied Mechanics and Materials Engineering by way of continuous up-gradation of curriculum, improvement in academic processes & ambience, and faculty & infrastructure development. To create knowledge resource through research in emerging areas of Applied Mechanics and Materials in collaboration with national & international academic, research and industrial organisations and to disseminate the same by contributing to and conducting STTPs, Workshops, Symposiums and Conferences.

List of Labs

- (i) Experimental Solid Mechanics PG Laboratory
- (ii) Biomedical Engineering PG Laboratory

List of Ph. D. Thesis Completed

Sl. No.	Name of Student (Reg. No.)	Thesis title	Supervisor(s)
1.	Ashok Kumar Jain (2010RAM06)	Some Studies on the Ware Housing Structures using Pre-fabricated Ferro-cement Folded Plates	Prof. K. K. Shukla
2.	Ashish Kumar Mishra (2009RAM03)	Mathematical Modeling of Human Lower Limb Muscluation system for Normal and Pathological Conditions	Prof. Rakesh Mathur & Dr. R. P. Tewari
3.	Vivek Kumar Srivastava (2010RAM03)	Computational Studies on Airflow and Particle Laden Flow in Human Respiratory Tract with and without Tumor	Prof. Anuj Jain
4.	Ajaya Bharti (2007RAM02)	Effect of Cryo-rolling, Bolt preload and Variable Amplitude Loading on Bolted Aluminum Plate	Prof. K. M. Gupta & Prof. K.N. Pandey

Publication in International Journals

- [1] A. K. Upadhyay and K. K. Shukla, "Post-buckling analysis of skew plates subjected to combined in-plane loadings," *Acta Mechanica*, vol. 225, no.10, pp. 2959-2968, 2014 (I. F. = 1.465)
- [2] A. Mannan and S. J. Pawar, "Anti-infective coating of Gentamicin Sulphate Encapsulated PEG/PVA/Chitosan for prevention of Biofilm Formation," *International Journal of Pharmacy and Pharmaceutical Sciences*, vol. 6, no. 10, pp. 571-576, 2014 (I. F. = 0.55).

- (iii) Materials Development PG Laboratory
- (iv) Fluids Engineering PG Laboratory
- (v) Computational PG Laboratory
- (vi) Strength of Material Laboratory
- (vii) Material Science & Engineering Laboratory
- (viii) Fluid Mechanics & Hydraulic Laboratory
- (ix) Structural Analysis Laboratory
- (x) DST-FIST Computational Laboratory
- (xi) Departmental Workshop
- (xii) Engineering Mechanics Laboratory
- (xiii) Fluid Research Laboratory

Courses offered by the Department

- (i) M.Tech. in Applied Mechanics
- (ii) M.Tech. in Biomedical Engineering
- (iii) M.Tech. in Fluids Engineering
- (iv) M.Tech. in Material Science & Engineering

Courses in which students were admitted in 2014-2015

- (i) M.Tech. in Applied Mechanics
- (ii) M.Tech. in Biomedical Engineering
- (iii) M.Tech. in Fluids Engineering
- (iv) M.Tech. in Material Science & Engineer

- [3] Y. T. Tsai, S. J. Pawar and J. H. Huang, "Optimizing Material Properties of Composite Plates for Sound Transmission Design Problem," *Journal of Sound and Vibration*, vol. 335, pp. 174-186, 2015 (I. F. = 1.857).
- [4] S. J. Pawar, W. S. Kuo and J. H. Huang, "Exfoliated Graphite/Graphite Nanosheet-Epoxy Nano-composites Revealed from the view point of Synthesis Bottleneck," *Maharakham International Journal of Engineering Technology*, vol. 1, no. 1, pp. 22-29, 2015 (I. F. = NA).

- [5] J. Singh, S. Singh and K. K. Shukla, "Meshless Analysis of Laminated Composite and Sandwich Plates Subjected to Various Types of Loads," *Journal for Computational Methods in Engineering & Mechanics*, vol. 15, no. 2, pp.158-171, 2014 (I. F. = 0.00).
- [6] A. S. Mehta, B. K. Singh, D. Archana, K. Snigdha, R. Harniman, S. S. Rahatekar, R. P. Tewari and P. K. Dutta, "Chitosan Silk based Three-Dimensional Scaffolds Containing Gentamicine-Encapsulated Calcium Alginate Beads for Drug Administration and Blood Compatibility," *J. Barometer Appl.*, vol. 29, no. 9, pp. 1314-1325, 2015 ((I. F. = 2.76).

Publication in National Journals

- [1] S. D. Gupta, A. Jain and A. R. Paul, "Sinusoidal Delta Wing: Challenges and Opportunities," *Journal of Aeronautical and Automotive Engineering*, vol. 2, no. 1, pp. 6-10, 2015 (I. F. = NA)
- [2] A. K. Yadav, S. D. Abbas, R. S. Shukla, A. Jain and A.R. Paul, "Advances in Aerodynamic Aspects of Serpentine Air-intakes: A Review," *Journal of Aeronautical and Automotive Engineering*, vol. 2, no. 1, pp. 16-21, 2015 (I. F. = NA)
- [3] A. Vedratnam, S. J. Pawar and R. Pandey, "Experimental Analysis of Property Variation in Biaxial Oriented Polypropylene Film (CBSX30 EH) during Storage," *Indian Journal*, vol. 14, no. 1, pp. 1-8, 2016 (I. F. = NA).

Publication in International Conferences

- [1] S. Roy, A. Kulshrestha, A. Jain and A. R. Paul, "Computational Analysis of Drag Reduction for a Hatchback Car," *Proceeding of the International Conference on Advanced Computational Technologies and Creative Media (ICACTCM 2014)*, Pataya, Thailand, 2014. pp. 94-98.
- [2] S. J. Pawar, "Investigations on the Global Energy Burden of Mobile Phone Charging," *International Conference on Energy (ICOE-2014)* at Colombo, Sri Lanka, 2014
- [3] S. J. Pawar, "Homeopathy: An Alternative Medicine Reviewed from Nanotechnology and Nanoscience Prospective," *International Conference on Nanoscience and Nanotechnology (ICNSNT-2014)* at Colombo, Sri Lanka, 2014.

- [4] Y. T. Tsai, S. J. Pawar, and J. H. Huang, "Material Properties Inverse Problem of Composite Plates for Specific Sound Transmission Loss," *International Conference on Multifunctional Materials, Structures and Applications (ICMMSA-2014)* at Allahabad, India, 2014.
- [5] S. J. Pawar and A. Vedratnam, "A Review on Composite Applications and Future Prospectus," *International Summit on Textile and Nano Composite Materials and Student Technical Symposium (TEXIDO2K15)* at Sathyamangalam, Tamilnadu, 2015.
- [6] V. K. Patel, S. N. Singh and V. Seshadri, "Effect of Blockage and its Location on the Flow Characteristics of Heated Swirling Coaxial Jets in a Non-expanding Confinement," *International Conference on 5th International and 41st National Conference on Fluid Mechanics & Fluid Power (FMFP-2014)* at IIT Kanpur, 2014.
- [7] R. Verma, V. K. Patel, A. K. Lal and A. Lal, "CFD Analysis on the Aerodynamics Behaviour of Hemispherical Structures," *International Conference on 5th International and 41st National Conference on Fluid Mechanics & Fluid Power (FMFP-2014)* at IIT Kanpur, 2014.
- [8] N. Agarwal, V. Shukla and A. Bhar, "Static Response of Functionally Graded Stiffened Plates Subjected to Thermo-Mechanical Load," *International Conference on Multifunctional Materials, Structures and Applications (ICMMSA-2014)* at MNNIT Allahabad, pp. 212-215, 2014.

Papers Presented in National Conferences

- [1] V. K. Yadav, A. K. Upadhyay and K. K. Shukla, "Nonlinear Static Analysis of Functionally Graded Sandwich Skew plates," *(ICMMSA)*, MNNIT Allahabad, 2014.
- [2] V. Yadav, A. K. Upadhyay and K. K. Shukla "Non-local Analysis of Orthotropic Plates," *(ICMMSA)*, MNNIT Allahabad, 2014.
- [3] B. Kumar, S. Malik, V. K. Srivastav and A. R. Paul, "Numerical Studies of Toxic-Particle Deposition in the Sixth Generation Human Respiratory Tract," *Proceeding in the National Conference on Emerging Trends in Physics of Fluids & Solids (NCETPFS 2015)*, Jadavpur University, Kolkata, 2015.

Reviewer of International Journals

Sl. No.	Faculty Name	Journal Name
1.	Dr. Akshoy Ranjan Paul	Journal of Applied Fluid Mechanics
2.	Dr. Anindya Bhar	Composites Part B (Elsevier)

Conference/ Workshop/ Short Term Course Organized by the Department

Sl. No.	Seminar/Conferences	Chair/Co Chair/Co-ordinator	Month & Year
1.	Self financed short term course on “Synthesis, Characterization and Applications of Nanomaterials” jointly organized by departments of Chemistry, Physics and Applied Mechanics	Dr. R. P. Tewari Dr. Abhishek Kumar	July 7-12, 2014
2.	Short term training programme on “Basics of Computational Fluid Dynamics (BCFD-2014)”	Prof. Anuj Jain Dr. A.R. Paul	June 23-27, 2014
3.	Self financed one week short term training programme on “Advanced Computational Fluid Dynamics (ACFD-2014)”	Prof. Anuj Jain Dr. A.R. Paul	June 28- July 2, 2014

Invited Lectures Delivered

1. Dr. S. J. Pawar delivered following expert lectures:

- (i) *Kinematic of Particles and Bodies* organised by the Department of Civil Engineering, Shepherd School of Engineering and Technology (SHIATS), Allahabad from August 27 -29, 2014.
- (ii) *Friction* organised by the Department of Civil Engineering, Shepherd School of Engineering and Technology (SHIATS), Allahabad from August 27 -29, 2014.
- (iii) *Composite Applications and Future Prospective*, organised by the Department of Textile Technology, Bannari Amman Institute of Technology (BIT), Sathyamangalam, Tamilnadu from January 21-22, 2015.
- (iv) *Human Being and Analogous Acoustic Transducer*, organised by the Department of Mechanical Engineering, Invertis University, Bareilly (UP) from March 14-15, 2015.

Seminar Room of the Department on August 6, 2014.

- (iii) Expert lecture delivered by Dr. Y. D. Dwivedi, GITAM University, Hyderabad on “Helicopter Aerodynamics,” in the Seminar Room of the Department on October 28, 2014.
- (iv) Expert lecture delivered by Dr. H. Chattopadhyay, Associate Professor, Department of Mechanical Engineering, Jadavpur University, Kolkata on “Turbulence: Physics, Modeling and Applications,” in Seminar Hall of the department on November 20, 2014.
- (v) Expert lecture delivered by Prof. J. H. Huang, Prof. W.S. Kuo & Professor Feng Chia University, Taichung, Taiwan on “Overview of various academic sections and activities of Feng Chia University,” in Seminar Hall of the Department on December 23, 2014.
- (vi) Expert lecture delivered by Dr. Mohd. Z. Yusufzai, IIT(BHU), Varanasi on “Metallurgy of Welding,” in Seminar Hall of the Department on February 02, 2015.
- (vii) A lecture delivered on the “Interaction and Discussion with Faculty members and Students of the Department for help to explore the possibility of future collaborations in emerging areas of common interest,” by Prof. P.K.S. Dikshit, Professor, Civil Engineering Department, IIT(BHU), Varanasi in the Seminar Room of the Department on March 01, 2015.

Invited Lectures Organized

- (i) Expert lecture delivered by Prof. R. Mishra, Professor Emeritus, University of Huddersfield, UK on “Recent Advances in Fluid Mechanics Research,” on August 5, 2014 in the Seminar Room of the Department.
- (ii) Expert lecture delivered by Prof. R. Mishra, Professor Emeritus, University of Huddersfield, UK on “Deciphering World Ranking Code for Universities,” and “Benchmarking the Course Modules” in the

Coordinator/Co-coordinator in Workshops/ Short-Term Courses/Training Programme

Sl. No.	Name	Seminar/ Conferences	Month & Year (2015)
1.	Prof. A. Jain, Chairman and Dr. A. Ranjan Paul as the Coordinator	1. One week short term training programme on Basics of Computational Fluid Dynamics (BCFD-2014) 2. National Workshop on "Advanced Computational Fluid Dynamics (ACFD-2014),	July 23-27, 2014 June 23-July 02, 2014

Conferences / Workshops / Short-Term Courses / Training Programme Attended

- (i) Dr. A. R. Paul attended 5th International Conference on "Fluid Mechanics & Fluid Power (FMFP-2014)" organised by IIT Kanpur during December 12-14, 2014.
- (ii) Dr. S. J. Pawar attended Two days International Conference on Energy (ICOE-2014) organised in Colombo, Sri Lanka during August 12-13, 2014.
(Two days International Conference on "Nanoscience and Nanotechnology (ICNSNT-2014)" organised in Colombo, Sri Lanka, during August 12-13, 2014.
Six days International Workshop/Conference on "Computational Condensed Matter Physics and Materials Science (IWCCMP-2014)" organised in Gwalior, (MP), during November 25-30, 2014.
- (iii) Dr. A. Bharti attended a short term training programme on "Structural Integrity" sponsored by TEQIP-II and Department of Mechanical Engineering, MNNIT Allahabad during June 16 -20, 2014.
- (iv) Dr. A. Bharti attended a National Workshop on "Fatigue and Fracture of Engineering Materials and Structures" sponsored by TEQIP-II and Department of Mechanical Engineering, MNNIT Allahabad during December 17-18, 2014.
- (v) Dr. A. Bharti attended an International Conference on "Recent Trends & Challenges in Civil Engineering (RTCCE-2014)" organised by Department of Civil Engineering, MNNIT Allahabad During December 12-14, 2014.
- (vi) Dr. V. K. Patel attended an International Conference on "Fluid Mechanics & Fluid Power (FMFP-2014)" organised by IIT Kanpur during December 12-14, 2014
- (vii) Dr. R. P. Tewari attended a Visiting Researcher's Program organized by IIT Kanpur) under TEQIP-II Program during December 07-23, 2014.
- (viii) Dr. A. Kumar attended UGC-NRCM Workshop on "Texture of Material," organized by Department of Materials Engineering, Indian Institute of Science, Bangalore during February 15-20, 2015.

Research Projects Ongoing/Completed

Sl. No	PI/Co investigator(s)	Project Title	Funding Agency	Amount (INR in Lacs)	Duration (Status)
1.	Dr. Akshoy Ranjan Paul	Flow Control in Complex Ducts using Synthetic Jets	SERB, DST under Start-Up Grant	23.93	16.08.13 (3 years) (Ongoing)
2.	Prof. Anuj Jain (PI) & Dr. Akshoy Ranjan Paul (Co-investigator)	Experimental and Computational Studies on Human Airways	SERB, DST under FSER Scheme	35.25	02.06.14 (3 years) (Ongoing)

Other Relevant Information

- (i) Dr. A. Bhar acted as Organizing Secretary for the International Conference on "Multifunctional Materials, Structures and Applications (ICMMSA-2014)", MNNIT Allahabad, India from December 22-24, 2014.
- (ii) Prof. A. Jain designated as the Coordinator in a joint programme for remaining period of MoU with Bharat Pump and Compressor Ltd. (A Government of India Undertaking), Allahabad and MNNIT Allahabad.
- (iii) Prof. A. Jain designated as the Coordinator (Liaison) on behalf of MNNIT in the joint programme for the remaining period of MoU signed between College of Engineering, University of Missouri, Columbia, USA and MNNIT Allahabad on December 12, 2014.

10.2 DEPARTMENT OF BIOTECHNOLOGY

Vision

The biotechnology program vision is to provide quality teaching with a strong core science concepts and an application-oriented undergraduate and post-graduate education along with solid foundation in the rapidly expanding fields of biotechnology that enables them to produce high quality professionals. This includes trans-disciplinary teaching and research. Our goal is to provide students with a sound knowledge and understanding of current theories, concepts and laboratory practices in biotechnology.

Mission

To generate high quality engineering professionals by offering B.Tech. and M.Tech. Programmes in Biotechnology and to develop a premier biotechnology

teaching and research department to cater for the needs and challenges of the region and the country.

List of Labs

- (i) Biotechnology Laboratory-I
- (ii) Biotechnology Laboratory-II
- (iii) Bioinformatics laboratory
- (iv) Green house
- (v) Experimental field

Courses offered by the Department

- (i) B.Tech.
- (ii) M.Tech.
- (iii) Ph.D.

Courses in which students were admitted in 2014-2015

- (i) B.Tech.
- (ii) M.Tech.
- (iii) Ph.D.

List of Ph.D. Thesis Completed

Sl. No. (Reg. no.)	Name of Student	Thesis title	Supervisor(s)
1.	Raj Kishor Gupta (2010RBT51)	Enhancement of bioavailable micronutrients Iron and Zinc in bread wheat (<i>Triticum aestivum</i> L.) through reduction of phytic acid	Dr. N.K.Singh
2	Mamta Pamnani (2010RBT03)	Study of DNA methylation in developmentally important genes in mammals	Dr. Manisha Sachan Dr. Seema Nara

Publication in International Journals

- [1] A. K. Pandey and S. Negi, "Impact of surfactant assisted acid and alkali pretreatment on lignocellulosic structure of Pine foliage and optimization of its saccharification parameters using Response Surface Methodology;" *Bioresource Technology*, vol. 192, pp. 115-125, 2015, (I. F.= 5.039).
- [2] S. Kumar and S. Negi, "Transformation of waste cooking oil into C-18 fatty acids using a novel lipase produced by penicillium chrysogenum through Solid State Fermentation," *3 Biotech*, vol. 5, no. 5, pp. 847-851, (I. F.= NA).
- [3] D. P. Maurya, A. Singla, and Sangeeta Negi, "An overview of key pretreatment processes for biological conversion of lignocellulosic biomass to bioethanol," *3 Biotech*, vol. 5, no. 5, pp. 597-609, 2015 (I. F. = NA)..
- [4] A. K. Rai, S. Sharma, and V. Punj, "Orchestration of Host-Pathogen Interaction: Relevance of Iron in Generation of Potent Anti-M. Tuberculosis Immunity," *Current Pharmaceutical Biotechnology*, vol. 15, no. 12, pp. 1095-1104, 2014 (I. F.= 1.95).
- [5] S. Chakrabarty, A. Mondal, P. Chakrabarti, S. K. Singh, A. K. Saha and P. Singh, "Synthesis of biocompatible TiO₂ nanodots: Glancing angle deposition technique," *Journal of Nanoscience and Nanotechnology*, vol. 15, pp.1-6, 2015, (I. F.= 1.56).
- [6] J. Kailashiya, N. Singh, S. K. Singh, V. Agrawal, D. Dash, "Graphene-based biosensor for detection of platelet-derived microparticles: a potential tool for thrombus risk identification," *Biosensors and Bioelectronics*, vol. 65, pp.274-280, 2015, (I. F.= 6.40).
- [7] M. Sachan and R. Raman, "Unmethylated/hypomethylated status of developmentally important genes in brain tissue of mammals," *South Asian Journal of Experimental Biology*, vol. 4, no. 5, pp. 226-23, 2014 (I. F.= NA).
- [8] S. Singh, K. Singh, S. Srivastava and M. Sachan, "Association study of functional polymorphisms of DNMT3A and DNMT3B genes with breast carcinoma in north Indian population," *South Asian Journal of Experimental Biology*, vol. 5, no. 4, pp. 121-126, 2015 (I. F.= NA)..
- [9] M. Kaur and M. Sachan, "Epigenetic

- modifications : Therapeutic potential in cancer,” *Braz. Arch. Biol. Technol.*, vol.58, no.4, pp. 526-539, 2015 (I. F.= 0.55).
- [10] S. Singh, A. Chaturvedi, A. Mani, “Cross Family Comparative Proteomic Study and Molecular Phylogeny of MAP Kinases in Plants,” *Interdiscip Sci Comput Life Sci*, vol. 6, pp. 1–10, 2014 (I. F.= 0.662).
- [11] A. Mani, D. K. Gupta, “ Single-stranded nucleic acid binding in Arabidopsis thaliana cold shock protein in cold shock domain dependent,” *Journal of Bimolecular Structure and Dynamic*, vol. 33, no. 4, pp. 861-868, 2015 (I. F.= 2.919).
- [12] J. Singh, S. Sharma, S. Nara, “Evaluation of gold nanoparticle based lateral flow assays for diagnosis of enterobacteriaceae members in food and water,” *Food Chemistry*, vol. 170, pp. 470-483, 2015 (I. F.= 3.391).
- [13] S. Bist, P. Pandey, B. Bhargava, S. K. Sharma, V. and Sharma K.D., “Bioremediation of polyaromatic hydrocarbons (PAHs) using rhizosphere technology” *Brazilian Journal of Microbiology*, vol. 46, pp. 7-21, 2015 (I. F.= 0.592).
- [14] B. Rani, V. Kumar, J. Singh, S. Bisht, P. Teotia, S. Sharma and R. Kela, “Bioremediation of dyes by fungi isolated from contaminated dye effluent sites for bio-usability,” *Brazilian Journal of Microbiology*, vol. 45, pp. 1055-1063, 2014 (I. F.= 0.592).
- [15] S. Devi, A. Tiwari, S. Sharma, V. kumar and S. Bisht, “Assessment of bacterial diversity and PGP activity of rhizobacteria in rhizosphere of Vigna mungo,” *Journal of Pure and Applied Microbiology*, vol. 9, pp. 391-39, 2015 (I. F.= 0.00).
- [16] S. Srivastava, R. K. Vishwakarma, Y. A. Arfat, S. K. Gupta, B. M. Khan, “Abiotic stress induces change in cinnamoyl CoA reductase (CCR) protein abundance and lignin deposition in developing seedlings of *Leucaena leucocephala*,” *Physiol and Mol Bio of Plant*, vol. 21, pp. 197-205, 2015 (I. F.= NA).
- [17] B. Luke, Hesson, A. Mathew, Sloane, Jason, W.H. Wong, C. Andrea, Nunez, S. Srivastava, B.T. Ng, J. Nicholas, Hawkins, J. Michael, Bourke, L. Robyn, Ward, “Altered promoter nucleosome positioning in an early event in gene silencing,” *Epigenetics*, vol. 9, pp. 1422-1430, 2014 (I. F.= 4.780).
- [18] L. Upadhyaya, J. Singh, V. Agarwal, and R. P. Tewari, “The implications of recent advances in carboxymethyl chitosan based targeted drug delivery and tissue engineering applications,” *Journal of controlled release*, vol. 186, pp. 54-87, 2014 (I. F.= 0.781).
- [19] A. K. Mishra, H. Pandey, V. Agarwal, P. W. Ramteke, A. C. Pandey, “Nanoengineered mesoporous silica nanoparticles for smart delivery of doxorubicin,” *Journal of nanoparticle research*, 16: 2515, pp. 1-10, 2014 (I. F.= 2.184).
- [20] L. Upadhyaya, J. Singh, V. Agarwal, A. C. Pandey, S. P. Verma, P. Das, and R. P. Tewari, “In situ grafted nanostructured ZnO/carboxymethyl cellulose nanocomposites for efficient delivery of curcumin to cancer,” *Journal of Polymer Research*, 21:550, 2014 (I. F.= 1.920).
- [21] S. Dohare, S. D. Dubey, M. Kalia, P. Verma, H. Pandey, N. K. Singh and V. Agarwal, “Anti-biofilm activity of eucalyptus globulus oil encapsulated silica nanoparticles against E. Coli Biofilm,” *International Journal of Pharmaceutical Science and Research*, vol. 5, pp. 5011-16. 2014 (I. F.= NA).
- [22] L. Upadhyaya, J. Singh, V. Agarwal, A. C. Pandey, S. P. Verma, P. Das, R. P. Tewari, “Efficient water soluble nanostructured ZnO grafted O-carboxymethyl chitosan/curcumin-nanocomposite for cancer therapy” *Process Biochemistry*, vol. 50, pp. 678-688, 2015 (I. F.= NA).
- [23] R. K. Gupta, G. Singh, N. K. Singh, “Isolation of Thermo tolerant phytase producing fungi and optimisation of phytase production by aspergillus niger NRF9 in solid state fermentation using response surface methodology,” *Biotechnology and Bioprocess Engineering*, vol.19, pp. 996-1004, 2014 (I. F.= NA).
- [24] R. K. Gupta, S. Singh, N. K. Singh, “Screening and characterization of wheat germplasms for phytic acid and iron content,” *J. Agr. Sci. Tech*, vol. 17, pp. 747-756, 2015 (I. F.= NA).
- [25] M. Rani and N. K. Singh, “Control of rice blight pathogen xanthomonas orizae through herbal plant extract,” *International Journal of Pharmaceutical Science and Research*, vol. 5, 2014 (I. F.= NA).
- [26] P. Yadav and A. Pandey, “Isolation and characterization of faecal coliforms in different water samples: A case study,” *World Journal of Pharmaceutical Research*, vol. 4, no. 7, 2015 (Impact factor 5.99) (I. F.= 5.99).
- [27] A. Pandey, K. Gupta and A. Pandey, “Effect of nanosized TiO₂ on photofermentation by rhodobactersphaeroides NMBL-02,” *Biomass and Bioenergy*, vol. 72, pp. 273-279, 2015 (I. F.= 3.394).

- [28] M. Jaiswal and A. Pandey, "In Silico mining of simple sequence repeats in whole genome of *Xanthomonas*," *Journal of Computer Science & Systems Biology*, vol. 7, pp. 203-208, 2014 (I. F.= 1.62)
- [29] A. Pandey and K. R. Bharadwaj, "Translational research for biosensing of pancreatic cancer : Concept and advancements," *World Journal of Pharmaceutical Research*, vol. 3, no. 4, pp. 1292-1300, 2014 (I. F.= 5.99).
- [30] P. Sinha and A. Pandey, "Biohydrogen production from various feedstocks using *Bacillus firmus*-NMBL-03," *International Journal of Hydrogen Energy*, vol. 39, pp. 7518-7525, 2014 (I. F.= 3.31).

Publication in National Journals

- [1] S. Kumar, R. K. Yadav and S. Negi, "A comparative study of immobilized lipase produced from *penicillium chrysogenum* SNP5 on two different anionic carriers for its pH and thermostability," *Indian Journal of Biotechnology*, vol. 13 pp. 301–305, 2014 (I.F. = 0.336).
- [2] J. Kumari and S. Negi, "Development of bioprocess for the production of laccase by *pleurotus ostreatus* MTCC 1802 using evolutionary optimization technique," *Indian Journal of Biotechnology*, vol. 52, pp. 1106-1111, 2014. (I.F. = 0.336).
- [3] S. G. Singh, R. K. Gupta, N. K. Singh, "Phytase production through response methodology and molecular characterization of *aspergillus fumigatus* NF191," *Indian Journal of Experimental Biology*, manuscript no. IJEB121, 2014 (I. F.= NA).
- [4] M. Z. Shamim and A. Pandey, "Identification of yellow mosaic virus (YMV) resistant black gram (*Vigna mungo* L.) genotypes for cultivation in northern India," *Journal of Agroecology and Natural Resource Management*, vol. 1, no. 2, pp. 48-50, 2014 (I. F.= NA).
- [2] P. Singh, S. Srivastava, S. K. Singh, "Cationic surfactant mediated synthesis of MCM-41 type mesoporous silicon oxide nanoparticles," *Proceedings of the international conference on multifunctional materials, structures and applications*, CIR MNNIT, Allahabad & University of Missouri (MU), Columbia, USA (pp.13-15). *McGraw Hill Education*, ISBN vol.13 pp. 978-93-392-2019-8.
- [3] S. K. Pandey, S. K. Singh and S. Sachan, "Optimization for effective removal of chemical dyes from wastewater using polymeric adsorbent," *Proceedings of the international conference on multifunctional materials, structures and applications*, CIR MNNIT, Allahabad & University of Missouri (MU), Columbia, USA (pp.152-155). *McGraw Hill Education*, ISBN(13) pp. 978-93-392-2019-8, 2014.
- [4] Mani, D. K. Gupta, "Phylogenetic studies on plant cold shock domain protein," *Proceedings of Ninth The IIER International Conference*, Bangkok, Thailand, ISBN pp. 978-93-84209-86-57th, February, 2015.
- [5] S. Verma, A. P. Singh, R. Rani, S. Sharma, K. Dubey, "Assessment of microbial community and soil enzyme activity of coal mine dumps of Sonbhadra Uttar Pradesh, India". *Proceedings of International Conference on Advances in Bio-Informatics, Bio-Technology and Environmental Engineering*, London, UK ISBN: pp. 978-1-63248-009-5, 1-2 June, 2014.
- [6] S. Q. Ma Sean, E. Jary, R. Higgins, S. Srivastava, N. J. Hawkins, B.H.Luke, R.L.Ward, E.F.Caroline, "The ROR, the Wnt and the Colon: Functional Consequences of ROR2 modulation in Colorectal Cancer," *EMBO Workshop on Wnt signaling* October 6-9, 2014.
- [7] N. Singh, M. Rani, A. Yadav, S. Gangoliya, R. Gupta, "Quality improvement in rice for prevention of chronic disease in India," *Plant Biology 2014 Oregon Convention Center, Portland, Oregon, USA* P06030-B, pp.104, July 12-16, 2014.
- [8] S. Singh Gangoliya, R. K. Gupta, N. K. Singh, "Phytase production through response methodology and molecular characterization of *aspergillus fumigates*," NF191. BRSI, New Delhi, India, November 6-9, 2014.
- [9] A. K. Yadav and N. K. Singh, "Combinational role of herbal and dietary phytochemicals for inhibition of cancer," *ICMP Chennai*, India, January 28-30, 2015.

Publication in International Conferences

- [1] A. K. Pandey, S. Rai and S. Negi, "Sequential dilute alkali and acid pretreatment of pine forest litter for bio-ethanol production by *saccharomyces cerevisiae* NCIM 3288," *Proceeding of The International Conference on Solid Wastes, Knowledge Transfer for Sustainable Resource Management*, Hong Kong, Baptist University, Hong Kong, pp. 455.458, 2015.

- [10] D. Tiwari, R. Awasthi, A. K. Meen and N. K. Singh, "Study ocular toxicity of plant lattices and its remedy," ICMP at Chennai, India, January 28-30, 2015.
- [2] S. Singh, A. K. Shaw, A.Mani, "Structure prediction and nucleic acid binding studies on human YB-1 protein," Intl. Conf. on Advances In Environment and Bio-Technology- EBT 2014 Hong Kong from August 26-27, 2014.

Papers Presented at Conferences

- [1] A. K. Pandey, S. Rai and S. Negi, "Physicochemical characterization of alkali pretreated pine foliages and evaluation of immobilized cellulases for enhanced saccharification and enzyme recyclability," In proceedings of Indo-US Conference on Advanced Lignocellulosic Biofuels (IUSCALB-2014) organized by IICT, Hyderabad from November 10-11, 2014.
- [3] N. K. Singh, M. Rani, T. S. Raj, "Introduction and characterization of potential mutants genotypes of basmati rice (*Oryza sativa* L.)," NGG-P68. ACRISAT Hyderabad, Feb. 2015.

Patent

- [1] Sangeeta Negi and Suneel Kumar, "A Process for Bioremediation of Industrial Grease Waste using a Bacterial Consortium" (Application no. 1764 / DEL / 2014), Filed on June 30, 2014.

Reviewer of International Journals

Sl. No.	Faculty Name	Journal Name
1.	Dr. Shivesh Sharma	African Journal of Microbiology Research Journal of Medicinal Research
2.	Dr. Anjana Pandey	International journal of Hydrogen Energy Beilstein Journal of Nanotechnology, Journal of Photobiology, Photochemistry, Current Microbiology, Applied Biochemistry and Biotechnology, World Journal of Microbiology and Biotechnology
3.	Dr. N.K.Singh	JJ microbiology Journal of Basic Microbiology
4.	Dr. Manisha Sachan	International Wound Journal
5.	Ashutosh Mani	Interdisciplinary Sciences of Computational Life Sciences (Springer) Archives of Molecular Biology International Journal of Biomedical Data Mining
6.	Dr. Radha Rani	Journal of The Institution of Engineers (India): Series E, (Chemical Engineering and Textile Engineering)
7.	Dr. Sameer Srivastava	Plos One
8.	Dr. Sangeeta Negi	Bioresource Technology. Food Research International Food Technology and Biotechnology Brazilian Archives of Biology and Technology African Journal of Biotechnology Applied Biochemistry and Biotechnology
9.	Dr. Seema Nara	Biosensor and Bioelectronics
10.	Dr. Sunil Kumar Singh	Carbon Journal World Research Journal of Cell Biology Journal of Nanoscience and Nanotechnology Journal of Nanoparticle research, Springer International Journal of Chemical and Biological Sciences

Book(s)/Book(s) Chapter(s) Authored

Sl. No	Faculty Name (Author/Co-author)	Book	Book Chapter	Publisher
1	Dr. Sangeeta Negi	Pretreatment of Biomass: Process and Technologies.	Chapter 8. Ionic Liquid Pretreatment, in the book entitled Pretreatment of Biomass: Process and Technologies.	Elsevier, Academic Press, USA

2	Dr. Anjana Pandey	Toxicogenomics of microcystins	-	Lambert Publishing (Germany) ISBN/ACCN No.978-3-639-71364-0
3	Dr. Manisha Sachan	Advances in Neurotherapeutic Delivery Technologies	Nano Strategies for Neuro Imaging and Diagnostics, Advances in Neurotherapeutic Delivery Technologies	142157 ISBN:978
4	Dr. Shivesh Sharma	Plant-Growth-Promoting Rhizobacteria (PGPR) and Medicinal Plants.	Plant Growth-Promoting Rhizobacteria (PGPR): Emergence and Future Facets in Medicinal Plants	Springer International Publishing, 2015. 109-131
5	Dr. N. K. Singh	Nutritional and Health Impact of Cereal Phytate	ISBN 978-3-659-55609-8. LAP	LAMBERT Academic Publishing is a trademark of: Omni Scriptum GmbH & Co. KG Heinrich-Böcking-Str. 6-8, 66121, Saarbrücken, Germany

Conference/Workshop/Short Term Course Organized by the Department

Sl. No	Seminar/Conferences	Chair/Co-chair/Coordinator	Month & Year
1.	Recent advances in Fermentation Technology	Dr. Sangeeta Negi (Coordinator)	January 14-18, 2015
2.	Plant and Enzyme Technology	Dr. Sangeeta Negi/ Dr. N.K. Singh (Coordinator)	January 24-28, 2015
3.	Microbial Technology and Biofilms: Avenues and Applications	Dr. Vishnu Agarwal	January 10-14, 2015
4.	Hands on Training on Molecular Techniques	Dr. Anjana Pandey/ Dr. Sameer Srivastava	January 16-22, 2015
5.	Biotechnology Health and IPR	Dr. Shivesh Sharma	January 14-18, 2015
6.	Biotechnology Health and Diagnostics	Dr. Shivesh Sharma	January 24-28, 2015
7.	Nanobiotechnology	Dr. Anjana Pandey	January 23-29, 2015
8.	Plant Tissue Culture Techniques and Applications	Dr. N.K. Singh	January 23-27, 2015

Invited Lectures Delivered

[1] Dr. Anjana Pandey delivered lectures on
(i) *Nanoparticles Mediated Drug Delivery* on July 09, 2014, in short term training course "Synthesis, characterization and applications of nanomaterials From July 7-12, 2014," at MNNIT Allahabad by Physics and Chemistry Departments.

(ii) *Environmental Engineering*, MNNIT Allahabad

(iii) DST inspired lecture on July 27, 2014 at Nand Singh P.G. College, Allahabad.

[2] Dr. Shivesh Sharma delivered lecture on
(i) *Plant and Enzyme Technology* from January 24-28, 2015.

[3] Dr. Nand Kumar Singh delivered lecture on

- (i) Biotechnology: Future Prospects and Challenges for the developing countries, April 2014. Anand Engineering College, Agra.
- [4] Dr. Sangeeta Negi delivered lectures on
- (i) Hong Kong Baptist University, Hong Kong as an invited guest and discussed about collaborative assignment, from August 14-19, 2014.
- (ii) *Enzyme Technology: Breakthrough in Biofuels Production*. at 2nd International Conference on Bioenergy, Environment and Sustainable Technologies (BEST 2015) organised by Department of Biotechnology, Arunai Engineering College, Chennai, Tamil Nadu from January 28-31, 2015.
- (iii) *Enzymes In Food Industries* on Feb 25, 2015 in workshop on "Need based modern trends in Nutraceuticals Research" organized by Department of Dairy Technology, SHIATS, Allahabad, India.
- (iv) *Enzyme Technology - A Tool for Progress*, in self finance short term workshop entitled "Plant and Enzyme Technology" organized by Department of Biotechnology, MNNIT, Allahabad from January 24-28, 2015.
- (v) *Advances in Fermentation Technology*, in a self finance short term workshop entitled "Recent advances in Fermentation Technology" organized by Department of Biotechnology, MNNIT Allahabad, from January 14-18, 2015.
- (vi) *Immobilized Enzymes - A Biomedical Approach*, in a short term workshop organised by Department of Biomedical Engineering, IIT, Allahabad, India on June 12, 2015.
- [5] Dr. Manisha Sachan delivered lecture on
- (i) *Epigenetic regulation of gene expression*, in a Short Term Training Course at MNNIT, Allahabad.
- [6] Dr. Radha Rani delivered lectures on
- (i) *Isolation, identification, preservation and improvement of industrially important microorganisms*, in a self financed short term training course on "Microbial Technology and Biofilms - Avenues and Application" from January 10-14, 2015 at Department of Biotechnology, MNNIT Allahabad.
- (ii) *Upstream processes involved in fermentation technology*, in a self financed short term training course on "Recent Advances in Fermentation Technology", from January 14-18, 2015 at Department of Biotechnology, MNNIT Allahabad.
- (iii) *Physiological and molecular mechanism of phytoremediation of heavy metals*, in a self financed short term training course on "Plant and Enzyme Technology", from January 14-18, 2015 at Department of Biotechnology, MNNIT, Allahabad.
- (iv) Role of plants and micro-organisms in constructed wetlands for waste water treatment" in a workshop on "Constructed Wetland Technology for Rural Waste Water Management", from April 28-30, 2015 at Department of Civil Engineering, MNNIT, Allahabad.
- [7] Dr. Sameer Srivastava delivered lectures on
- (i) *Gene Expression- Techniques to Estimate Differential Gene Expression*, in a short term course on "Hands on Training on Molecular Techniques in Biotechnology" from January 16-22, 2015 at MNNIT, Allahabad.
- (ii) *DNA Sequencing - Methods and Applications*, in a short term course on "Hands on Training on Molecular Techniques in Biotechnology" from January 16-22, 2015 at MNNIT Allahabad.
- (iii) *Plant Transformation Methods*, in a short term course on "Plant Tissue Culture, Techniques and Application" from January 23-27, 2015 at MNNIT, Allahabad.
- (iv) *DNA Sequencing in Cancer Diagnostics*, in a short term course on "Biotechnology Health and Diagnostics" from January 24-28, 2015 at CMDR, MNNIT, Allahabad.
- [8] Dr. Sunil Kumar Singh delivered lectures on
- (i) *Electrochemical Nanobiosensor- An Innovative Tool for Food Pathogen and Toxin Detection*, in UGC sponsored refresher course on "Food Safety and Public Health" for faculty from March 29 to April 18, 2015 at Centre of Food Technology, University of Allahabad.
- (ii) *Electrochemical Nanobiosensor - Recent Trends and Challenges*, in a self-financed short term course on "Nano Biotechnology" from January 23-29, 2015 organised at Department of Biotechnology MNNIT, Allahabad.
- (iii) *Blood Platelets - Key Players in Cardiovascular Diseases*, in a self financed short term course on "Biotechnology, Health and Diagnostics" from January 24-28, 2015 in the Centre for Medical Diagnostic and Research, MNNIT, Allahabad.
- (iv) Blood Platelets – Bacterial Pathogen Interactions: Role in Cardiovascular Infections" in a self financed short term

course on “Microbial Technology and Biofilms: Avenues and Applications” from January 10-14, 2015 organised at Department of Biotechnology, MNNIT Allahabad.

Coordinator/Co-coordinator in Workshops/ Short-Term Courses/Training Programme

Sl. No.	Name	Seminar/ Conferences	Month & Year (2015)
1.	Dr. Anjana Pandey Chairman	1. Hands on Training on Molecular Techniques. 2. Biotechnology Health and IPR. 3. Nanobiotechnology. 4. Plant and Enzyme Technology. 5. Plant Tissue Culture and Applications. 6. Recent Advances in Fermentation Technology. 7. Hands On Training in Molecular Techniques. 8. Nanobiotechnology.	January 16-22 January 14-18 January 23-29 January 24-28 January 23-27 January 14-18 January 16-22 January 23-29
2.	Dr. Shivesh Sharma Convener	1. Biotechnology Health and IPR 2. Biotechnology Health and Diagnostic	January 14-18 January 24-28
3.	Dr. Sangeeta Negi Convener	1. Recent Advances in Fermentation Technology. 2. Plant and Enzyme Technology	January 14-18 January 24-28
4.	Dr. N. K. Singh Convener	1. Plant Tissue Culture Techniques and Applications 2. Plant and Enzyme Technology	January 23-27 January 24-28

Conferences/Workshops/Short-Term Courses/ Training Programme Attended

(i) Dr. Anjana Pandey as Coordinator workshop entitled “Networking and collaboration during May-22 to June-4, 2014.

(ii) Dr. Ashutosh Mani, Dr. Radha Rani, Dr. Ambak K. Rai, Dr. Sanjay Kumar, Dr. Sameer Srivastava, TEQIP sponsored workshop entitled ‘Pedagogy’, organized at MNNIT Allahabad in July 2014.

Research Projects Ongoing/Completed

Sl. No.	Principal Investigator/Co-investigator(s)	Project Title	Funding Agency	Amount (INR in Lacs)	Duration (Status)
1.	Dr. Anjana Pandey	Mission Mode project on Hydrogen Production through biological routes	MNRE, New Delhi	45.50	Completed in 2014-15
2.	Dr. Anjana Pandey /Dr. Ashutosh Pandey	Integrated bio-hydrogen production from renewable biomass and biological wastes using microbial strains	DBT, New Delhi	48.09	Ongoing
3.	Dr. Shivesh Sharma (PI) Dr Radha Rani (Co-PI)	Bio-restoration technology based on the management of plant microbe soil interactions for the restoration of degraded ecosystems	Department of Biotechnology (DBT)	10.00	Completed 2014-15
4.	Dr. Shivesh Sharma (PI) DR. NK Singh (CO-PI)	Harnessing PGPRs from Indo Gangetic Plain Region of Uttar Pradesh for Growth Promotion and Disease Suppression in Rice and Pigeonpea	Department of Biotechnology (DBT)	39.39	Ongoing
5.	Vishnu Agarwal	Development of Eucalyptus globules oil containing bioadhesive polymeric nanoparticles and estimation of its cytotoxicity potential and assay against biofilms	DST	20.78	Ongoing
6.	Vishnu Agarwal, Dr Seema Nara, Dr Shailendra Kumar Mishra	Study of antibody and human morphonuclear neutrophils (PMN) mediated phagocytosis of PNAG positive Staphylococcus epidermidis biofilms and	DBT	27.07	Ongoing

7.	Dr. Ambak K Rai	estimation of Caspase-3-like Protease (CLP) production Study of arachidonic acid pathway in human visceral leishmaniasis: therapeutic efficacy of α -linoleic acid as a dietary supplement with sodium antimony	DST, New Delhi	20.50	Ongoing
8.	Dr. Sangeeta Negi	Process development for cellulosic ethanol production from Himalayan Chir Pine (<i>Pinus roxburghii</i>) forest waste	DST, GOI	19.90	Completed in 2014-15
9.	Dr. Sangeeta Negi	Sorghum Stover-based biorefinery for fuels and chemicals, funded by the Ministry of New Renewable Energy	MNRE, GOI	42.67	Ongoing
10.	Dr. Sangeeta Negi	Process development for bioconversion of grease into long chain fatty acids. (in collaboration with IIT, Delhi)	DBT, GOI	46.43	Ongoing
11.	Dr. Ashutosh Mani	Domain specific functional investigation of YB-1(a cold shock domain protein) interacting proteins as prospective therapeutic targets in adenocarcinoma of colon	SERB, DST	30.00	Ongoing
12.	Dr. Ashutosh Mani	Identification of novel drug targets in <i>Aspergillus fumigatus</i> genome prioritized by essentiality based screening and rational designing of new antifungal compounds	CSTUP	7.50	Ongoing
13.	Dr. Seema Nara	Rapid assay for simultaneous detection of toxins of <i>Staphylococcus aureus</i> and <i>Clostridium botulinum</i> in dairy products	SERB-DST	23.80	Ongoing

10.3 DEPARTMENT OF CIVIL ENGINEERING

Vision

To provide quality teaching with a strong concepts of Engineering and Technology and an application-oriented U.G., P.G. and Doctoral education along with solid foundation in the rapidly expanding fields of Civil Engineering that enables them to produce high quality professionals. This includes trans-disciplinary teaching and research. To provide students with a sound knowledge and understanding of current theories, concepts and laboratory practices in Civil Engineering.

Mission

To generate high quality engineering professionals by offering U.G., P.G. and Doctoral programmes in Civil Engineering to develop a premier Civil Engineering teaching and research department to cater for the needs and challenges of the region and the country.

List of Labs

- (i) Structural Engineering Laboratory
- (ii) Geotechnical Engineering Laboratory
- (iii) Environmental Engineering Laboratory
- (iv) Transportation Engineering Laboratory

- (v) Survey Laboratory
- (vi) CAD Laboratory
- (vii) Geology Laboratory

Courses offered by the Department

- (i) B.Tech in Civil Engineering
- (ii) M.Tech in Civil Engineering (Structural Engineering)
- (iii) M.Tech in Civil Engineering (Geotechnical Engineering)
- (iv) M.Tech in Civil Engineering (Environmental Engineering)
- (v) M.Tech in Civil Engineering (Transportation Engineering)

Courses in which students were admitted in 2014-2015

- (i) B.Tech course in Civil Engineering
- (ii) M.Tech course in Civil Engineering (Structural Engineering)
- (iii) M.Tech course in Civil Engineering (Geotechnical Engineering)
- (iv) M.Tech course in Civil Engineering (Environmental Engineering)
- (v) M.Tech course in Civil Engineering (Transportation Engineering)

List of Ph.D. Thesis Completed

Sl. No.	Name of Student (Reg.no.)	Thesis title	Supervisor(s)
1.	Garima Srivastava	Application of Web GIS in Assessment and Evaluation of Basic School Education for Sustainable Growth. Case Study - Bundelkhand Region of Uttar Pradesh (India).	Prof. R.K. Srivastava
2.	Arti Alok (2007RCE04)	Studies on Electrokinetic Remediation of Cadmium Contaminated Soil.	Prof. R.P. Tiwari and Prof. R.P Singh
3.	Paritosh Srivastava (2008RCE05)	Optimization of Cropping Pattern in a Command Area with Groundwater Management.	Dr. Raj Mohan Singh

Publication in International Journals

- [1] H. Jain, A. Rawat, "A Review on Advancement in Sensor Technology in Structural Health Monitoring System," *Journal of Structural Engineering and Management (Josem)*, (Eissn: 2393-8773) (I. F. = NA).
- [2] S. Venkatesh, Quaff, A. R. Pandey, N. D. and K. Venkatesh, "Decolorization and mineralization of C.I. direct red 28 azo dye by ozonation," *International Journal of Desalination and Water Treatment*, DOI:10.1080/19443994.2014.992047, 2014, (I. F. = 1.173).
- [3] R. Upadhyay, V. Srivastava, A. Herbert and P. K. Mehta, "Effect of Fly Ash on Flexural Strength of Portland Pozzolona Cement Concrete," *Journal of Academia and Industrial Research (JAIR)*, vol. 3, pp. 218-220, 2014, (I. F. = 0.406).
- [4] R. Kumar, P. K. Mehta, and V. Srivastava, "Effect of Metakaoline and Recycled Fine Aggregate on Workability and Compressive Strength of Concrete," *Journal of Environmental Nanotechnology*, vol. 3, no.3, pp. 82-87, 2014, (I. F. = 0.601).
- [5] S. K. Singh, V. Srivastava, V. C. Agarwal, R. Kumar and P. K. Mehta, "An Experimental Investigation on Stone Dust as Partial Replacement of Fine Aggregate in Concrete," *Journal of Academia and Industrial Research (JAIR)*, vol. 3, pp. 229-232, 2014, (I. F. = 0.406).
- [6] V. Srivastava, R. Kumar, V. C. Agarwal and P. K. Mehta, "Effect of Silica Fume on Workability and Compressive Strength of OPC Concrete," *Journal of Environmental Nanotechnology*, vol. 3, no.3, pp. 32-35, 2014, (I. F. = 0.60).
- [7] D. K. Pandey, H. S. Parihar, and P. Pal, "A Study on the Performance of Elements in FEM," *International Journal of Engineering Research and Development (IJERD)*. vol. 10, no. 8, pp. 20-25, 2014, (I. F. = NA).
- [8] B. R. Paramkusam, R. K. Srivastava, and D. Mohan, "Electrokinetic Removal of mixed heavy metals from a contaminated low permeable soil by surfactant and chelants," *International Journal of Environmental Earth Sciences*, vol. 73, pp. 1191-1204, 2015, (I. F. = 1.765).
- [9] M. Somani, S. Saxena, R. K. Srivastava, "A Tariff Plan Proposed For MSW Management In Urban Areas: Case Study– Allahabad, India," *International journal of structural and civil engineering research*, vol. 4, no. 1, 2015, (I. F. = NA).
- [10] S. Gupta, Prof. R. K. Srivastava, "Evaluation of Cement Kiln Dust Stabilized Heavy Metals Contaminated Expansive Soil- A Laboratory Study," *European Journal of Advances in Engineering & Technology*, vol.2, no. 6, pp. 37-42, 2015, (I. F. = NA).
- [11] S. Gupta, Prof. R. K. Srivastava, "Health Risk Assessment of a Soil Contaminated by the Carpet Industry Waste (Sludge)," *International Journal of Research in Environmental Science and Technology, IJREST – 2015-07-53*, 2015 (accepted), (I. F. = NA).
- [12] D. Srivastava, R. M. Singh, "Breakthrough Curves Characterization and Identification of Unknown Pollution Source in Ground Water System Using ANN," *Environmental Forensics (Taylor & Francis)*, vol. 15, pp. 175-189, 2014, (I. F. = 0.562).
- [13] P. Srivastava, R. M. Singh, "Multi Objective Optimization of Cropping Pattern in A Canal Command Area," *International Journal of Engineering Research, Issue Special 3*, vol. 3, pp. 247-252, 2014, (I. F. = 5.49).

- [14] Shilpi and R. M. Singh, "Land Cover Classification by LS-SVM with Landsat Satellite Imagery," *International Journal of Engineering Research*, vol. 3, pp. 230-233, 2014, (I. F. = 5.49).
- [15] R. P. Singh, F. Zahra, "Mixing Kinetics in Batch Adsorption of Chromium (VI) by Embilica Officinalis Leaf Powder," *International Journal of Advanced Technology in Engineering and Science*, vol. 2, no. 01, pp. 349-357, 2014, (I.F. = 1.012).
- [16] R. P. Singh, F. Zahra, "Evaluation of Kinetics of Leaching of Lignins and Tannins in Batch Adsorption of Cr (VI) by Embilica officinalis Leaf Powder (EOLP)," *International Journal of Membrane and Separation Technology*, vol. 3, pp. 232-242, 2014, (I. F. = NA).
- [17] S. Gandhi and R. P. Singh "Analysis of Supercritical Flow in Suddenly Expanding Channel," *International Journal of Fluid Mechanics Research*, vol. 41, no. 3, pp.194-220, 2014, (I. F. = 0.990).
- [18] R. P. Tiwari, A. Alok, and R. P. Singh, "Selection of a Suitable Surfactant based on Zeta Potential for Use as Purging Solution in EK Remediation of Cadmium from Cadmium Contaminated Soil," *Oxidation Communications*, vol. 38, 2015, (I.F. = 0.507).
- [19] R. Kumar, A. Rawat and V. Kumar, "Stability and Analysis of Retaining Wall of Bank Areas of the Ganga River," *Journal of Geotechnical Engineering*, vol. 2, pp15-19, 2015 (I.F.=NA).
- [20] V. Kumar and R. P. Tiwari, "Appraisal of Liquefaction Potential using Neural Network and Neuro Fuzzy Approach," *Applied Artificial Intelligence*, vol. 27 no. 8, pp. 700-720, 2013, (I. F. = 0.53).
- [21] V. Kumar and R. P. Tiwari, "A Neuro fuzzy Technique to Predict Seismic Liquefaction Potential of Soil," *International journal of Neural Network World*, vol. 03, no. 24, pp. 249-266, 2014, (I. F. = 0.48).
- [22] P. K. Gupta and G. Ghosh, "Seismic Performance of a Curved Bridge with High Damping Rubber Bearing and Friction Pendulum System", *International Journal of Earth Sciences and Engineering*, vol. 7, no. 5, pp. 1012-1016, 2014 (I. F. = 0.15).
- [23] P. K. Gupta and G. Ghosh, "Effect of Radius of Curvature on the Seismic Response of an Isolated Curved Bridge," *International Journal of Advance Research in Science and Engineering*, vol. 3, no. 1, pp. 227-236, 2014, (I. F. = 1.142).
- [24] V. Singh, R. M. Singh, N. R. Rawal and S. Chakma, "Groundwater Quality Modelling Affected by Municipal Solid Waste Dumping Yards using Fuzzy Rule Based System," *International Journal of Innovative research in Technology & Science (IJRTS)* pp. 2321-1156. 2015, (I. F. = 3.559).

Publication in National Journal

- [1] S. Singh, A. B. Samaddar, R. K. Srivastava and H. K. Pandey, "Ground Water Recharge in Urban Areas – Experience of Rain Water Harvesting," *Journal Geological Society of India*, vol. 83, pp. 295-302, 2014 (I. F. = 0.596).
- [2] A. Kumar, V. Srivastava, and R. Kumar, "Effect of Waste Polythene on Compressive Strength of Concrete," *Journal of Academia and Industrial Research (JAIR)*, vol. 3, pp. 152-175, 2014, (I. F. = NA).
- [3] G. Srivastava, R. K. Srivastava and R. C. Vaishya, "Web GIS Based Decision Support System for School Education," *Analysis for Sustainable Decision Making of Bundelkhand Zone of Uttar Pradesh, RJITCA-2015*, vol. 1, no. 1, 2015, (I. F. = NA).

Publication in Conferences

- [1] H. Jain, A. K. Sachan, and A. Rawat, "Light Weight Concrete (LC) for Slabs," Proceedings of strategic perspectives and advancement in civil engineering SPACE 2014 pp. 30-33, September, 2014.
- [2] A. Rawat, A. K. Sachan and Ramashanker, "Management of Construction and Demolition of Waste Materials," International Conference on Sustainable Civil Infrastructure at IIT Hyderabad, ASCE Conference, October 17-18, 2014.
- [3] A. K. Verma, and A. Rawat "Strength Behavior of PPC Concrete with Different Level of Fly Ash," National Conference on Recent Advancements and Innovations in Civil Engineering (RAICE), TIT (Excellence), Bhopal, 2014.
- [4] H. Jain, A. Rawat, and S. Gupta, "Sustainable Pavement Repairing by Ferrocement Technology," International Conference on Recent Trends and Challenges in Civil Engineering MNNIT Allahabad, India December 12-14, 2014.
- [5] Y. K. Bind and K. Venkatesh, "ANN and Neuro-fuzzy based Approach for Shear Strength Characterization of Soil," International

- Conference RTCCE-2014, MNNIT Allahabad, pp. 37, 2014.
- [6] Y. K. Bind, H. Saadi, Abbood and V. Kumar, "Site Exploration and Design of Radioactive Waste Landfill in Al-tuwaitha, Iraq," National Conference GEN-2014, MNNIT Allahabad, pp.-56-62, 2014.
- [7] M. Somani, R. K. Srivastava and V. Kumar, "Tariff on Municipal Solid Waste Management-Across the World & India," A Review, National Conference GEN-2014, MNNIT Allahabad, pp.-189-193, 2014.
- [8] R. Kumar, P. K. Mehta, A. Sharma, Ashish and A. Kumar, "Correlation between Non-Destructive and Destructive Strengths of Stone Dust Concrete Struts at Different Load Concentration Ratios," International Conference on Recent Trends & Challenges in Civil Engineering (RTCCE-2014), MNNIT, Allahabad, December 12-14, 2014.
- [9] R. Kumar, P. K. Mehta, A. Kumar, Ashish and A. Sharma, "Compression & Dispersion Efficiency of Concrete Struts at Different Load Concentration Ratios using Stone Dust as a Partial Replacement of Fine Aggregate," International Conference on Recent Trends & Challenges in Civil Engineering (RTCCE-2014), MNNIT, Allahabad, December 12-14, 2014.
- [10] R. Kumar, P. K. Mehta, Ashish, A. Sharma, and A. Kumar, "Correlation between Non-Destructive and Destructive Strengths of Recycled Aggregate Concrete Struts at Different Load Concentration Ratios," International Conference on Recent Trends & Challenges in Civil Engineering (RTCCE-2014), MNNIT, Allahabad, December 12-14, 2014.
- [11] A. Kumar, V. Srivastava, R. Kumar and P. K. Mehta, "Utilization of Waste Polythene Bags in Concrete - An Experimental Investigation," International Conference on Recent Trends & Challenges in Civil Engineering (RTCCE-2014), MNNIT, Allahabad, December 12-14, 2014.
- [12] V. Srivastava, V. C. Agarwal, R. Kumar and P. K. Mehta, "Effect of Silica Fume and Metakaolin Combination on Compressive Strength of Concrete in Aggressive Environment," International Conference on Recent Trends & Challenges in Civil Engineering (RTCCE-2014), MNNIT, Allahabad, December 12-14, 2014.
- [13] M. Somani, S. Kumar, and R. K. Srivastava, "Scope of Regional Landfills for the State of Uttar Pradesh," International Conference on Environment and Energy, ISBN: 978-93-81212-96-7, December, 2014.
- [14] S. Srivastava and V. Kumar, "Municipal Solid Waste: A Review of Management Scenario of Cities of Uttar Pradesh," in National Conference GEN-2014, MNNIT Allahabad, 2014, pp. 317-321, October 11-12, 2014.
- [15] S. Srivastava and V. Kumar, "A Review of Remediation Technologies used for Soil Contaminated by Heavy Metals," in International Conference on Recent Trends and Challenges in Civil Engineering, MNNIT Allahabad, India, pp. 264-268, December 12-14, 2014.
- [16] V. Kumar and Y. Kumar, "Liquefaction Potential Evaluation of Alluvial Soil by ANN Technique," ISET Golden Jubilee Symposium, IIT Roorkee.
- [17] V. P. Singh, and R. K. Srivastava, "A Decision Support System for Health Risk Assessment and Remedy Selection for Contaminated Land," Proceeding of Golden Jubilee Conference of the IGS Bangalore Chapter, Geo-Innovations, October 30-31, 2014.
- [18] D. Kumar, and V. P. Singh "Assessment of Engineering Behaviour and Health Risk of Metal Complex Acid Dye Contaminated Expansive Soil," Proceeding of National Conference on Geo-environmental Issues and Sustainable Urban Development, Oct 11-12, 2014.
- [19] P. K. Gupta and G. Ghosh, "Efficacy of Friction Pendulum System for a Curved Bridge," in Structural Engineering Convention (Sec-2014), (IIT Delhi), pp. 291, Dec 22-24, 2014
- [20] G. Ghosh, "Seismic Design of Bridge Considering Performance Based Philosophy," in International Conference on Civil Engineering, (VVIT, Bangalore), pp. 195-201, Aug 21-23, 2014.
- [21] N. K. Meena, G. Ghosh and P. Pal, "Performance-based Seismic Design of Buildings with Shear Wall," in International Conference on Recent Trends and Challenges in Civil Engineering, (MNNIT Allahabad), pp. 32, December 12-14, 2014.
- [22] P. K. Gupta and G. Ghosh, "Choice of Isolation System for a Curved Bridge," in International Conference on Recent Trends and Challenges in Civil Engineering, (MNNIT Allahabad), pp. 37, December 12-14, 2014.
- [23] P. K. Gupta and G. Ghosh, "Efficacy of High

Damping Rubber Bearing of a Curved Bridge,”
15th Symposium on Earthquake Engineering-
15th SEE- (IIT Roorkee), pp. 704-709,
December 11-13, 2014.

- [24] B. Kishor and N. R. Rawal, “Removal of
Copper Ions from Synthetic Wastewater Using
Low Cost Natural Iron Rich Sand,” in
International Conference on Recent Trends &
Challenges in Civil Engineering, MNNIT,
Allahabad. India, December 12 -14, 2014

Papers Presented in Conferences

- [1] G. Ghosh “Seismic Design of Bridge Considering
Performance Based Philosophy,” in International
Conference on Civil Engineering, (VVIT
Bangalore), pp. 195-201, August 21-23, 2014.

Reviewer of International Journals

Sl. No.	Faculty Name	Journal Name
1.	Prof. A.K Sachan	Journal of Emerging Technologies and Innovative Research. STM Journal of Structural Engineering.
2.	Er. Anupam Rawat	Journal of Emerging Technologies and Innovative Research.
3.	Dr. P. R. Pal	Journal of Ocean Engineering, Elsevier.
4.	Dr. R.K. Srivastava	Land contamination and reclamation – EPP Publication Ltd. London, U.K. Management of Environmental Quality – Emerald Group Publishing Ltd., U.K. African Journal of Microbiology Research. International Journal of Hazardous Materials.
5.	Dr. Ram Pal Singh	International Journal of Membrane and Separation Technology. ASCE Journals of Environmental Engineering Division. ASCE Journal of Hazardous, Toxic and Radioactive Wastes Management Journal of ASCE.
6.	Dr. Shalinee Shukla	Energy Sources, Part B: Economics, Planning, and Policy, Taylor & Francis.
7.	Dr. Nekram Rawal	Desalination and Water Treatment

Conference/Workshop/Short Term Course Organized by department

Sl. No.	Seminar/Conferences	Chair/Co-Chair/Coordinator	Month & Year
1.	Short Term Course STIPCE-2015	Er. V.P.Singh	June 15 to July 14, 2015
2.	Rain Water Harvesting	Dr.H.K.Pandey	November 24-28, 2015
3.	Water Pollution and Waste Water Treatment.	Dr. H.K.Pandey	January 27-31, 2015
4.	National Conference on “Geo-Environmental Issues And Sustainable Urban Development” (GEN-2014)	Prof. A.K. Sachan Prof. R.K. Srivastava Prof. R.P. Tiwari Dr. Kumar Venkatesh, Er. Vijay Kumar & Er. V.P. Singh	October 11-12, 2014
5.	Short Term Course on Earthquake Resistant & Detailing of Structures (ERDDS-2014)	Dr. Rama Shanker & Dr. Rakesh Kumar Dr. Kumar Pallav & Dr. Goutam Ghosh.	November, 2014
6.	International Conference on Recent Trends & Challenges in Civil Engineering (RTCCE-2014)	Dr. P. R. Pal & Dr. Goutam Ghosh	December, 2014
7.	Short Term Course on Seismic Analysis, Design and Retrofit of Bridges (SADRB-2015)	Dr. Goutam Ghosh & Dr. P. R. Pal	February, 2015

8.	Limit State Design of Steel Structure (LSDSS-2014)	Dr. Rakesh Kumar	October-November, 2014
9.	A Self-financed Short Term Course on “Water and Wastewater Quality Examination” (WWQE-2015)	Prof. Ram Pal Singh, Prof. R.P. Tiwari,	January 27-29, 2015
10.	A Self-financed Short Term Course on “Geotechnical Investigations in Civil Engineering Projects” (GICP-2015)	Prof. R.P. Tiwari & Prof. Ram Pal Singh	January 30 - February 01, 2015
11.	A Self-financed Short Term Course on “Construction Management in Water Supply Sector” (CMWSS-2015)	Prof. Ram Pal Singh & Prof. A. K. Sachan	April 06 – 10, 2015
12.	Summer Training and Internship Programme in Civil Engineering (STIPCE-2015)	Dr. Rakesh Kumar Dr. Shaline Shukla Dr. P. R. Pal Dr. Nekram Rawal	June 15, 2015 to July 12, 2015
13.	TEQIP II Sponsored Short Term Course on "Bio-Inspired and Geospatial Techniques" (BIOGEOS)	Dr. Nekram Rawal	February 27-March 03, 2015
14.	Self Financed Short Tem Course on Numerical Optimization Technique (NOT-2014)	Dr. R.M.Singh, Dr. Nekram Rawal and Dr. K. Pallav	October 31- November 04, 2014
15.	Two - week ISTE STTP on Environmental Studies under the National Mission on Education through ICT, MHRD, Government of India)	Dr. Nekram Rawal	June 2- 12, 2015

Invited Lectures Delivered

1. Dr. H. K. Pandey delivered lectures on :
 - (i) *Water Resource Problems and Management* on January 29, 2015 at BBS Engineering College, Allahabad in Inspire Programme of DST, Govt. of India.
 - (ii) “Water Resource Management” on February 13, 2015 at U.P.College, Varanasi under DBT programme of DST, Govt. of India.
 - (iii) *Sanitaion and Ground Water* on October 17, 2014 and “Rain Water Harvesting” on October 18, 2014 at Academic Staff College, BHU, Varanasi.
 - (iv) *Groundwater Exploration in Aquifer Management* on March 26, 2015 organised by Central Ground Water Board, Ministry of Water Resources, Govt. of India at BHU, Varanasi.
2. Dr. Kumar Venkatesh delivered lectures on
 - (i) *Finite Element Method during STC* on NOT-2014 on November 01, 2014 at MNNIT Allahabad.
 - (ii) *Permeability Test and its Applications* during STC on RWH-2014 held on November 25, 2014 at MNNIT Allahabad.
3. Prof. P. K. Mehta delivered lectures on:
 - (i) *Boundary Conditions and Forces* Workshop on Engineering Mechanics, Department of Civil Engineering, SSET, SHIATS-DU, Allahabad, August 26-28, 2014.
 - (ii) *Fibre Reinforced Concrete* Workshop on Modern Practices in Construction Industry (MPICI 2014), Department of Civil Engineering, Dev Prayag Institute of Technical Studies, Allahabad, Nov 15, 2014.
 - (iii) *Bridge Types* TEQIP-II Sponsored Short Term Course on “Seismic Analysis, Design and Retrofit of Bridges (SADRB-2015),” Department of Civil Engineering, MNNIT, Allahabad, February 2-6, 2015.
 - (iv) *Culvert Design* TEQIP-II Sponsored Short Term Course on “Seismic Analysis, Design and Retrofit of Bridges (SADRB-2015),” Department of Civil Engineering, MNNIT, Allahabad, February 2-6, 2015.
 - (v) *Rectangular Water Tanks* Training Programme on “Hydraulic and Structural Design of Water Retaining Structures for Water Supply Management,” Department of Civil

- Engineering, MNNIT, Allahabad, Feb 24-28, 2015.
4. Dr. P. R. Pal delivered lectures on:
 - (i) *Tension Members* in the Self-financed Short Term Course on “Limit State Design of Steel Structures” (LSDSS-2014), Sept. CED, MNNIT, Allahabad, September 27 - October 1, 2014,
 - (ii) *Overview of Structural Dynamics* in the TEQIP Sponsored short term course on “Seismic Analysis, Design and Retrofit of Bridges” (SADRB-2015) held during Feb. 02-06, 2015, CED, MNNIT Allahabad.
 - (iii) *Concrete Mix Design* in the self financed short term course on “Hydraulic & Structural Design of Water Retaining Structure for Water Supply Management” (HSDWRSWSM-2015) held in Feb. 24 - 28, 2015, CED, MNNIT, Allahabad.
 5. Dr. Rakesh Kumar delivered lectures on:
 - (i) *Forces and Equilibrium* on 28.08.2014 in Workshop on “Recent Trends in Engineering Mechanics” from August 27-29, 2014 at Department of Civil Engineering, SHIATS, Allahabad.
 - (ii) *Bolted Connections* on September 29, 2014 in One Week Self Financed Short Term Course on “Limit State Design of Steel Structures (LSDSS-2014)” from September 27- October 01, 2014 at Department of Civil Engineering, MNNIT Allahabad.
 - (iii) *Welded Connections* on September 29, 2014 in one week self financed short term course on “Limit State Design of Steel Structures (LSDSS-2014)” from September 27- October 01, 2014 at Department of Civil Engineering, MNNIT Allahabad.
 - (iv) *Use of Mineral Admixtures in Concrete* in Workshop on ‘Modern Practices in Construction Industry’ on November 15, 2014, at Department of Civil Engineering, Dev Prayag Institute of Technical Studies, Allahabad.
 - (v) *Architectural Consideration of Earthquake Resistant Structures* on November 25, 2014 in TEQIP II sponsored one week short term course on “Earthquake Resistant Design and Detailing of Structures (ERDSS-2014)” from November 24-28, 2014 at Department of Civil Engineering, MNNIT, Allahabad.
 - (vi) *Earthquake Resistant Design of Masonry structures* on November 26, 2014 in TEQIP II sponsored one week short term course on “Earthquake Resistant Design and Detailing of Structures (ERDSS-2014)” from November 24-28, 2014 at Department of Civil Engineering, MNNIT, Allahabad.
 - (vii) *Prestressed Concrete* on February 05, 2015 in TEQIP II sponsored one week short term course on “Seismic Analysis, Design and Retrofit of Bridges (SADRB-2015)” from February 02-06, 2015 at Department of Civil Engineering, MNNIT Allahabad.
 - (viii) *Circular Water Tank* on February 25, 2015 in self financed short term course on “Hydraulic and Structural Design of Water Retaining Structures for Water Supply Management” from February 24-28, 2015 at Department of Civil Engineering, MNNIT Allahabad
 - (ix) *Circular Water Reservoir* on February 26, 2015 in self financed short term course on “Hydraulic and Structural Design of Water Retaining Structures for Water Supply Management” from February 24-28, 2015 at Department of Civil Engineering, MNNIT Allahabad.
 6. Prof. Ram Pal Singh delivered lectures on:
 - (i) *Estimation of Storm Runoff for Design of Rainwater Harvesting Systems* on November 25, 2014 at MNNIT Allahabad, in a self-financed short term course on “Rainwater Harvesting Systems (RWH-2014)
 - (ii) *Fundamentals of Mathematical Modeling of Biological Wastewater Treatment Systems* on December 14, 2014 at MNNIT Allahabad in the International Conference on “Recent Trends & Challenges in Civil Engineering (RTCCE-2014)” held at MNNIT Allahabad from December 12-14, 2014.
 - (iii) *Biological Wastewater Treatment & Microbial Growth Kinetics* on January 31, 2015, in a short term course on Water Pollution and Wastewater Treatment (WPWT-2015) held at Chemical Engineering department,

- MNNIT Allahabad during January 27-31, 2015.
- (iv) *Lingo Based Optimization and Application in Solid Waste Management* in a short term course on Numerical Optimization Technique (NOT-2014), October 31-Nov.04, 2014, organized by CED, MNNIT Allahabad (U.P.)
- (v) *Application of Optimization Techniques in Solid Waste Management* in short term training programme on Application of Soft Computing Methods in Engineering from May 26-30, 2014 organized by MED, MNNIT Allahabad (U.P.)
- (ii) Co-ordinator Prof. A.K.Sachan & Co-ordinator - Dr. Rakesh Kumar. Prof. Y. P. Gupta, Retd. Professor, MNNIT Allahabad & Advisor Naini Bridge, Allahabad has delivered the Lecture on *Green Buildings and Roads* for Civil Engineering students on Feb. 13, 2015. Co-ordinator - Prof. A.K.Sachan & Co-ordinator, Dr. Rakesh Kumar.
- (iii) Knowledge Session by J K Business School on *Personality Development* on Mar. 20, 2015. Co-ordinator - Prof. A.K.Sachan & Dr. Rakesh Kumar.

Invited Lectures Organized

- (i) Mr. Bhusan Deshpandey, Chief Manager-Customer Services, ACC Ltd. Sales unit, Kanpur has delivered the Lecture on *Address Challenges of Construction* for Civil Engineering students on Feb. 13, 2015,

Coordinator/Co-coordinator in Workshops/ Short-Term Courses/ Training Programme

Sl. No.	Name	Seminar/ Conferences	Month & Year
1.	Dr. D. Basu as the Co-Coordinator	Self-Financed Short Term Course on Rain Water Harvesting (RWH-2014) Training Programme on Management of Water Quality Surveillance Programme	Nov. 24-28, 2014 Jan. 07-09, 2015
2.	Dr. H. K. Pandey as Course Coordinator	One Week Short Term Course on Rainwater Harvesting-2014 (RWH-2014)	Nov. 24-28, 2014
3.	Dr. Kumar Venkatesh as Coordinator	CD workshop on M.Tech Civil Engineering (Geotechnical Engineering)	Sept. 20 2014
4.	Prof. Ram Pal Singh as Chairperson	Environmental Engineering in International Conference on "Recent Trends & Challenges in Civil Engineering (RTCCE-2014)	Dec. 12-14, 2014
5.	Prof. Ram Pal Singh as Co-ordinator	Self-Financed Short Term Course on "Water And Wastewater Quality Examination" (WWQE-2015) Geotechnical Investigations in Civil Engineering Projects" (GICP-2015)	Jan. 27-29, 2015 Jan. 30 – Feb. 01, 2015
6.	Vijay Kumar as Co-coordinator	Short Term Course on Geotechnical Investigations for Civil Engineering Project (GICP-2015) National Conference on Geo-Environmental Issues and Sustainable Urban Development	Jan. 30 – Feb. 01, 2015. Oct. 11-12, 2014
7.	Prof. A.K Sachan as Coordinator	Self Financed Course on Water & Waste Water Examination Hydraulic and Structural Design of Water Tank and Water Retaining Structure for Water Supply Management (HSDWRS-2015) Summer Training cum Internship Programme in Civil Engineering Department (STIPCE-2015) A self financed short term course on Construction Management in Water Supply Sector (CMWSS-2015)	Jan. 27-29, 2015 2015

8.	Dr. R.M. Singh, Dr. Nekram Rawal and Dr. K. Pallav as Coordinators	Self Financed Short Tem Course on Numerical Optimization Technique (NOT-2014)	Oct. 31-Nov. 04, 2014
9.	Dr. Nekram Rawal as Co-Coordinator	TEQIP II Sponsored Short Term Course On Bio-Inspired and Geospatial Techniques" (BIOGEOS)	Feb. 27-Mar. 03, 2015

**Conferences/Workshops/Short-Term Courses/
Training Programme Attended**

- | | |
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| <ul style="list-style-type: none"> (i) International Conference on <i>Multifunctional Materials, Structures and Applications</i> (ICMMSA-2014) held from December 22-24, 2014 at MNNIT Allahabad, sponsored by TEQIP-II, MNNIT Allahabad. (ii) <i>Recent Trends & Challenges in Civil Engineering-2014</i> at MNNIT Allahabad, held from December 12-14, 2014. (iii) Short term course on, <i>Innovative Technologies in Transportation Engineering (ITTE 2015)</i> held at IIT Guwahati organized by the Department of Civil Engineering from February 23-27, 2015. (iv) Training on <i>Laboratory & Field Instruments Manufactured by GDS Instruments</i> from June 9 – 15, 2014 at Hook, UK. | <ul style="list-style-type: none"> (v) International Conference on <i>Civil Engineering (ICCE-2014)</i>, held from August 21 – 23, 2014, at Vijaya Vitatla Institute of Technology, Begaluru. (vi) Short term course on <i>Earthquake Resistant Design & Detailing of Structures (ERDDS-2014)</i>, held from November 24 – 28 2014, at Motilal Nehru National Institute of Technology Allahabad. (vii) <i>Seismic Analysis, Design and Retrofit of Bridges (SADRB-2015)</i>, held from February 02 – 06, 2015 at Motilal Nehru National Institute of Technology Allahabad. (viii) One week ISTE STTP on <i>Environmental Studies</i> under the National Mission on Education through ICT (MHRD, Government of India) from March 23-29, 2015 Conducted by IIT Bombay. |
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Research Projects Ongoing/Completed

Sl. No.	Principal Investigator/Co investigator(s)	Project Title	Funding Agency	Amount (INR in Lacs)	Duration (Status)
1.	V P SINGH	Human health risk assessment and remediation selection for contaminated site	TEQIP_II	5.00	September 2013 (Report Writing)
2.	V P Singh	Evaluation of Contaminated Land Site and its Remediation Modeling in Laboratory	R&C MNNIT	2.20	March 2015 On-going
3.	Dr.H.K.Pandey	Hydro geological Evaluation of Fluoride contamination of groundwater in parts of District. Sonbhadra (U.P.)	MNNIT Allahabad	2.31	Aug. 23, 2013 for one and half year
4.	Dr. Raj Mohan Singh, Dr. Varun Singh	Groundwater System Modeling Under Climatic Changes and Uncertainty	SERB DST	24.00	Oct. 24, 2014
5.	Ram Pal Singh	Ambient Air Quality Monitoring and Noise Monitoring” at three locations in Allahabad city.	UPPCB Lucknow	7.12	Jan. 01, 2015 Duration : 01 year, On-going
6.	Dr. Goutam Ghosh	Response of Curved Bridges with Isolation Bearings	SERB, DST, New Delhi	13.60	May, 2013, Three Years

Other Relevant Information to be incorporated in Annual Report

- (i) Best Paper Award to Dr. Goutam Ghosh for the contributed paper “Seismic Design of Bridge Considering Performance Based Philosophy” in the International Conference on Civil Engineering organized by the Society of Information Processing, Bengaluru and Vijaya Vitatla Institute of Technology, during August 21-23, 2014.
- (ii) Best Paper Award (3rd Place) Nekram Rawal and A.K.Sachan (2014) “An Approach for Selection of Wastewater Treatment Units using Analytical Hierarchy Process” in The Seventh International Conference on Environmental Science and Technology, June 9 -13, 2014, Houston, Texas, USA.
- (iii) Participated as an expert in the panel for discussion of the emerging issues to be considered for proposed revisions of NBC in the National Seminar on “National Building Code proposed revisions in 2015” being organized jointly by School of Planning and Architecture and Bureau of Indian Standards 18th March 2015.

10.4 CHEMICAL ENGINEERING DEPARTMENT

Vision

To educate undergraduate and graduate students by offering solid foundation in both theoretical and applied aspects of Chemical Engineering and to discover and disseminate knowledge through research. The Department is committed to achieving excellence in education and evaluates the success of its programs using the highest standards of quality & visibility with providing a friendly and supportive atmosphere.

Mission

Our goal is to provide strong fundamentals complemented by professional skills including communication to the students.

List of Labs

- (i) Chemical Reaction Engineering
- (ii) Chemical Technology
- (iii) Computer Aided Design
- (iv) Environmental Engineering
- (v) Fluid Particle Mechanics & Mechanical Operation
- (vi) Mass Transfer
- (vii) Process Dynamics & Control

Courses Offered by the Department

- (i) B.Tech in Chemical Engineering
- (ii) M.Tech in Chemical Engineering
- (iii) Ph.D. in Chemical Engineering

Publication in International Journals

- [1] H.Uslu, “Intensification of Picolinic Acid Extraction with Tri-n-Butylphosphate and Tri-n-Octylamine in Three Different Diluents,” *Chemical Engineering Research and Design*, vol. 95, pp.105-112, 2015, (I.F. = NA).
- [2] D. Datta, S. Kumar, “Modeling using Response Surface Methodology and Optimization using Differential Evolution of Reactive Extraction of Glycolic Acid,” *Chemical Engineering Communications*, vol. 202, no. 1, pp. 59-69, 2015, (I.F. = 1.104).
- [3] H. Uslu, D. Datta, S. Kumar, “Reactive Extraction of Oxaloacetic Acid (Glyoxylic Acid) Using Amberlite-LA2 in Different Diluents,” *Journal of Chemical & Engineering Data*, vol. 59, no. 8, pp. 2623–2629, 2014, (I.F. = 2.037).

Publication in International Conference

- [1] D. Datta, S. Kumar, A. Chandra, “Investigation of Extraction of Nicotinic Acid using TBP and TOA Dissolved in a Binary Diluent Mixture,” Proceedings of 67th Annual Session of IChE (CHEMCON-2014), Punjab University, Chandigarh during Dec. 27-30, 2014.
- [2] N. Chomal, A. Kumar, S. Kumar, “Investigation of Ionic Liquid Systems for Extraction of Benzoic Acid from Hydrocarbons,” AIChE Annual Meeting, Atlanta (GA) USA, November 16-21, 2014.
- [3] N. Prakash, S. Kumar, A. K. Sharma, “Kinetic Modeling of Propylene Polymerization with Me₂Si [Ind] 2ZrCl₂/MAO Catalyst System,” AIChE Annual Meeting, Atlanta, USA, Nov. 16-21, 2014.
- [4] S. Kumar, P. N. Sheth, B.V.Babu, “Reactive Extraction of Nicotinic Acid from Aqueous Solution: Equilibrium and Kinetic Study,” Proceedings of International Conference on Advances in Chemical Engineering (ICACE-2014), Kollam, Kerala, Elsevier Publishers, October, 16-18, 2014.
- [5] A. N. Sawarkar, R. Kashyap, A. Pandey, S. Sawhney, R. K. Sharma, “Numerical investigation of cavitation for simple geometries and study of effect of geometry on

- cavitation number,” National conference on Applications of Mathematics in Engineering and Sciences (AMES-2014) held at MNNIT Allahabad during Nov. 29-30, 2014.
- [6] A. N. Sawarkar, “Processing of heavy crude oils: A challenge as well as an opportunity for petroleum refiners,” 67th Annual session of Indian Chemical Congress (CHEMCON-2014) to be held at Punjab University, Chandigarh during December 27-30, 2014.
- [7] A. N. Sawarkar, “Novel batch reactor for pyrolysis of waste tyres into useful products,” International Conference on Environment and Energy (ICEE) held at Jawaharlal Nehru Technological University, Hyderabad on during Dec. 15-17, 2014.
- [8] A. N. Sawarkar, V. P. Singh, “Disparities in the kinetic results of pyrolysis of biomass: Recent advances and the possible way forward,” 1st International Conference on Recent Advances in Bio-Energy Research (ICRABR-2015) held at Sardar Swaran Singh National Institute of Renewable Energy during March 14-17, 2015.
- [9] N. Chomal, A. Kumar, S. Kumar, “Investigation of Ionic Liquid Systems for Extraction of Benzoic Acid from Hydrocarbons,” 2014-AIChE Annual Meeting, Atlanta (GA) USA, Nov. 16-21, 2014.
- [10] S. Kumar, P. N. Sheth, B. V. Babu, “Reactive Extraction of Nicotinic Acid from Aqueous Solution,” Equilibrium and Kinetic Study. Proceedings of International Conference on Advances in Chemical Engineering (ICACE-2014), Kollam, Kerala, Oct., 16-18, 2014.

Reviewer in International Journals

Sl. No.	Faculty Name	Journal Name
1.	Dr. Sushil Kumar	Bioprocess and Biosystems Engineering (Springer) Journal of Chemical and Engineering Data (American Chemical Society) Journal of Chemical Technology & Biotechnology (Wiley InterScience) Desalination (Elsevier) Chemical And Biochemical Engineering Quarterly

Conference/Workshop/Short Term Course Organized by the Department

Sl.No.	Seminar/Conferences	Chair/Co-chair/Coordinator	Month & Year
1.	Self- financed short term course on Water Pollution and Wastewater Treatment (WPWT-2015)	Dr Sushil Kumar	January, 2015

Invited Lectures Organized

Dr. V. P. Mishra, Assistant Vice President, Reliance Industries Limited, delivered a lecture on “Applications of Computational Fluid Dynamics in

Chemical and Petrochemical Industries,” Organized by Dr. A. N. Sawarkar on February 12, 2015.

Coordinator/Co-coordinator in Workshops/Short-Term Courses/Training Programme

Sl. No.	Name	Seminar / Conference	Month & Year
1.	Dr. Sushil Kumar	Self- financed short term course on Water Pollution and Wastewater Treatment (WPWT-2015) organized by Department of Chemical Engineering and Chemistry, MNNIT Allahabad	January, 2015

**Conferences/Workshops/Short-Term Courses/
Training Programme Attended**

(i) Dr Sushil Kumar attended an International Conference on Advances in Chemical Engineering (ICACE-2014), Kollam, Kerala, Oct., 16-18, 2014.

(ii) Dr Sushil Kumar attended 2014-Annual Meeting of American Institute of Chemical Engineers (AIChE) Atlanta, USA, Nov. 16-21, 2014.

Research Projects Ongoing/Completed

Sl. No.	Principal Investigator/Co investigator(s)	Project Title	Funding Agency	Amount (INR in Lacs)	Duration (Status)
1	Dr Sushil Kumar	Extraction of Metals Ions from Aqueous Solutions using Ionic Liquids (Green Solvents)	TEQIP-II, MNNIT, Allahabad	3.70	2013-15 (Completed)
2	Dr Sushil Kumar	Reactive extraction of nicotinic- and isonicotinic acids from aqueous solution	DST, New Delhi	11.50	2012-2015 (transferred from BITS Pilani)

10.5 DEPARTMENT OF CHEMISTRY

Vision

To develop state of the art infrastructure for providing high-quality education and training in chemical sciences in tune with the contemporary global scenario.

Mission

To train and help engineering undergraduate students to acquire experimental and theoretical knowledge in the area of applied chemistry.

To train Ph.D. students in chemical sciences to become independent, selfreliant researchers having good fundamental understanding of the subject to cater the needs of academics and industry

Courses offered by the Department

- (i) B. Tech./II semester theory and lab course.
- (ii) Ph.D. Program

List of Ph.D. Thesis Supervised in Year 2014-15

Sl. No.	Name of Student	Thesis Title	Supervisor (s)
1.	Nidhi Nigam	Preparation, characterization and optical properties of chitosan derivatives.	Tamal Ghosh & P.K.Dutta
2.	D.Archana	Evaluation of chitosan based ternary nano dressing for wound healing: Characterization, <i>in vitro</i> & <i>in vivo</i> studies	P.K.Dutta & J.Dutta (JIMS, G.Noida)
3.	Anil Kumar	Studies on development of carbon monolith and carbon-metal composite for various application	P.K.Dutta & Ajay Dhar (NPL, New Delhi)
4.	Sadhana Singh	Synthesis and characterization of some organotin dyes, titanium oxo alkoxo carboxylates and metal organic framework compounds	Dr. Ashutosh Pandey
5.	Ruby Upadhyay	A study of the performance of natural betacyanin dye in nano metal oxides based Solar cells.	Dr. Ashutosh Pandey and Dr. Mridula Tripathi
6.	G. Thiagarajan	Design, synthesis characterization and pharmaceutical applications of some new hydrazone derivatives	Dr. Ashutosh Pandey
7.	Kiran Gupta	Synthesis, characterization and some applications of metal alkoxides and metal oxides based on titanium, aluminium and yttrium	Dr. Ashutosh Pandey

Publication in International Journals

[1] S. Kumar, Kiran, P. K. Dutta and J. Koh. Chitosan biopolymer based Schiff base, “Preparation, characterization, optical and antibacterial activity,” *International J. Polymeric Materials & Polymeric Biomaterials*, vol. 63, no.4, pp. 173-177, 2014. (I.F. = 3.57)

[2] S. Kumari, A. Kumar, P. Sengupta, P. K. Dutta, B. R. Mathur, “Improving the mechanical and thermal properties of semicoke based carbon/copper composites reinforced using carbon nanotubes,” *Advance Materials Letters*, vol. 5, no. 5, pp. 265-271, 2014. (I.F. = 1.024)

[3] S. Kumari, A. Kumar, A. P. Singh, M. Garg, P. K. Dutta, S. K. Dhawan, R. B. Mathur, “Cu-Ni alloy decorated graphite layers for EMI suppression,” *RSC Advances*, vol.4, pp. 23202–23209, 2014. (I.F. = 3.84)

[4] A. Kumar, S. Husale, A. K. Srivastava, P. K. Dutta, and A. Dhar, “Cu-Ni nanoparticle decorated graphene based photodetector,” *Nanoscale*, vol.6, pp. 8192–8198, 2014. (I.F. = 7.394)

[5] A. Kumar, A. P. Singh, S. Kumari, P. K. Dutta, S. K. Dhawan, and A. Dhar, “Polyaromatic hydrocarbon based carbon copper composites for suppression of electromagnetic pollution,” *Journal of Material Chemistry A*, vol. 2, pp.16632–16639, 2014. (I.F. = 6.626)

[6] D. Archana, J. Dutta, and P. K. Dutta, “Chitosan for wound healing management via in vivo approach A mini review,” *Asian Chitin Journal*, vol. 10, no. 1 & 2, pp. 1-10, 2014. (I.F. = NA)

[7] N. Sahai, T. Jain, S. Kumar and P.K.Dutta, “Chitosan based porous scaffolds by Computer Aided Tissue Engineering,” *Asian Chitin Journal*, vol. 10, no. 1 & 2, pp. 11-19, 2014. (I.F. = NA)

[8] H. Kumar, and P. K. Dutta, “Chitosan-QD nanocomposite: Synthetic strategy and application,” *Asian Chitin Journal*, vol. 10, no. 1 & 2, pp. 19-24, 2014. (I.F. = NA)

[9] A.S.Mehta, B. K. Singh and P.K.Dutta, “Electrospun chitin, chitosan and silk fibroin nanofibrous scaffolds,” *An emergent trend in biomedical applications. Asian Chitin Journal*, vol. 10, no. 1 & 2, pp. 25-28, 2014. (I.F. = NA)

[10] D. Archana, B. K. Singh, J. Dutta, and P. K. Dutta, “Chitosan-PVP- nano silver oxide wound dressing: In vitro and in vivo evaluation,”

International J. Biological Macromolecules, vol. 73, pp. 49–57, 2015. (I.F. = 3.096)

[11] T. Jain, S. Kumar, P. K. Dutta, “Theranostics: A way of modern medical diagnostics and the role of chitosan,” *Journal of Molecular and Genetic Medicine*, vol. 9, pp. 1-5, 2015. (I.F. = 0.00)

[12] K. Gupta, P. Mayer, A. Pandey, “Synthesis and Structure of an Aluminum Bis(3-chloropentanedionate) Isopropoxide,” *[Al(μ-OiPr) (3-Clacac)2]2 Z. Naturforsch. B*, 69b, pp. 799 – 803, 2014.(I.F. = 0.864)

[13] S. Ambreen, P. Mayer, N. D. Pandey, A. Pandey, “Characterization and photocatalytic study of tantalum oxide nanoparticles prepared by the hydrolysis of tantalum-oxo-ethoxide Ta8 (μ3-O)2(μ-O)8(μ-OEt)6(OEt)14,” *Beilstein Journal of Nanotechnology*, vol. 5, pp. 1082–1090, 2014, (I.F. = 2.326)

[14] A. Pandey, K. Gupta, A. Pandey, “Effect of nanosized TiO2 on photo-fermentation by *Rhodobacter sphaeroides*,” *NMBL-02, 72,273-279 Biomass & Bioenergy*, 2015, (I. F. = 3.411).

[15] D. Pandey, Shahid, S. Narvia and Chowdhury, “Supramolecular Hydrogen Bonded 3D Molecular Self Assembly Constructed from [(Co (nicotinamide)2(thiocyanate)2(H2O)2] Complex Showing Anti-ferromagnetic Character,” *Journal of Advances in Chemistry*, vol. 10, no. 6, pp. 2864, 2014. (I.F. = 1.778)

[16] D. Pandey, S. S. Narvi, G. K. Mehrotra, J. Raymond, J. Butcher, “Hydrogen Bonded 3D Molecular Self Assembly Constructed from [(Ni (nicotinamide)2 (thiocyanate)2(H2O)2] complex showing spin canted anti-ferromagnetic character,” *Chinese Struct. Chem.*, vol. 34, no. 5, pp.777-785, 2015. (I.F. = 0.507)

Publication in Conference Proceedings

[1] A. Chouhan, A. Pandey, “A comparative study, of morphologies of a Zn tetrazole framework synthesized by microwave and hydrothermal methods,” *International conf. ICMMSA-2014, MNNIT Allahabad*. pp. 9-12, Dec. 22-24, 2014.

[2] M. Danish, S. Ambreen and A. Pandey, “Effect of thickness on structural and optical properties of Nb2O5 thin films prepared via sol gel,” *International conf. ICMMSA -2014, MNNIT Allahabad*, pp. 67-69, Dec. 22-24, 2014.

- [3] A. Pandey, "Multimodal bioprobes as ne tools for theranostics," National Symposium RTPC, NIT Sikkim, pp. 6, Jan. 23-24, 2015.

Patents

- [1] Archana, J. Dutta and P. K. Dutta, "A new wound care product," VIDE INDIAN patent application no. 1267/DEL/2015.

Reviewer in International Journals

Sl.No.	Faculty Name	Journal Name
1	Prof. P. K. Dutta	International Journal of Biological Macromolecules, African Biotechnology, Carbohydrate Polymers, Journal of Polymer Materials, RSC Advances, Journal of Materials Chemistry, Biomacromolecules etc.
2.	Dr. Ashutosh Pandey	DST project on Dye Sensitized Solar Cells.

Book (s) / Book (s) Chapter (s) Authored

Sl. No.	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	Prof. P.K.Dutta (Ed.)	Chitin & Chitosan for regenerative medicine New Book Series: Composite Polymer Material, (Accepted)	Total five chapters	Springer-Verlag Berlin Heidelberg

Conferences/Workshop/Short Term Course Organized by the Department

Sl.No.	Seminar/Conferences/STTC	Chair/Co-chair/Coordinator	Month & Year
1.	Two week STTC (Self Financed) on Research Pedagogy wrt Chitin, Chitosan & Ophotochemistry	Prof. P.K. Dutta & Prof. S. Narvi	July 4-17, 2014
2.	Workshopon Inspiration for Research: YOU CAN	Prof. P. K. Dutta, Prof. S. Narvi & Dr. Tamal Ghosh	Dec. 19-21, 2014
3.	Synthesis Characterization and applications of Nano materials	Dr. Ashutosh Pandey as Course Coordinator & Main Teacher: (Self Financed)	July 7-12, 2014

Invited Lectures Delivered

1. Prof. P. K. Dutta delivered following lectures:

- (i) Inaugural lecture *Chitosan in the light of nanobiotechnology* in Self-financed short term course on Nanobiotechnology organized by Department of Biotechnology, MNNIT Allahabad, 23rd -29th January, 2015.
- (ii) *Chitosan for theranostic uses* Self- Financed Short Term Course on Biotechnology, Health & Diagnostics organized by Department of Biotechnology, MNNIT Allahabad, January 24-28, 2015.
- (iii) *Enzymology with reference to chitin science: Some information* in Self-Financed Short Term Course on Plant and Enzyme Technology organized by Department of

Biotechnology , MNNIT Allahabad, January 24-28, 2015.

- (iv) *Chitosan based bioactive materials for food applications: A useful food security approach* in 4th annual meeting of Indian Chitin and Chitosan Society (ICCS) & National Conference on Application of the Derivatives of Chitin and Chitosan (ADCC-2014) Gandhigram Rural University, Dindigul, Tamil Nadu, 22nd & 23rd August, 2014.
- (v) Six lectures in Two-week STTC (Self-Financed) on Research Pedagogy wrt Chitin, Chitosan & Ophotochemistry organized by Department of Chemistry, MNNIT Allahabad, July 4-17, 2014.

- (vi) YOU CAN organized by Department of Chemistry, MNNIT Allahabad, December 19-21, 2014.
2. Dr. A. Pandey Delivered following lectures:
- (i) A scheduled talk at ICMSA Allahabad on 24th Dec, 2014.
 - (ii) Delivered invited talk in Recent trends and perspectives 2015 on 23 Jan 2015 at NIT Sikkim in the gracious presence of Prof. C. N. R. Rao.
 - (iii) Delivered three invited talks in the STC on Nanobiotechnology during Jan 25-29, 2015.

Workshops/Short-Term Courses/Training Programme Attended

- (i) Prof. P. K. Dutta attended 4th annual meeting of Indian Chitin and Chitosan Society (ICCS) & National Conference on Application of the Derivatives of Chitin and Chitosan (ADCC-2014), Gandhigram Rural University, Dindigul, Tamil Nadu, Aug 22-23, 2014.
- (ii) Prof. P. K. Dutta attended National Seminar on "Recent Advances in Polymer Science and Technology, organised by Prof Sukumar Maiti Polymer Award Foundation (PSMPAF) in collaboration with the Department of chemistry, Viswa Bharti University, Shantiniketan, Feb 14-15, 2015, West Bengal.

Research Projects Ongoing/Completed

Sl. No	Principal Investigator/ Coinvestigator (s)	Project Title	Funding Agency	Amount (INR Lacs)	Duration (Status)
1.	Prof. P.K.Dutta (PI) Dr. Tamal Ghosh (Co-PI)	Chitosan derivatives containing azo based Schiff bases: Synthesis, characterization, spectroscopic and antimicrobial studies	CSIR, New Delhi	18.00	Ongoing
2.	Dr. Anjana Pandey (PI) Dr. Ashutosh Pandey (Co-PI)	Integrated biohydrogen production from renewable biomass and biological wastes using microbial strains.	DBT, New Delhi	48.19	

Other Relevant Information to be incorporated in Annual Report

- (i) Prof. P. K. Dutta completed 10 years of service as Editor-in-Chief of an International Journal: Asian Chitin Journal.
- (ii) Prof. P. K. Dutta attended workshop on hands on training of JEOL instruments at INST Mohali on Dec 16, 2014.
- (iii) Prof. P. K. Dutta contributed in the organization of ICMSA international conference 2014.
- (iv) Dr. Ashutosh Pandey appointed as Warden I of R. N. Tagore Hostel MNNIT on Feb 10, 2015.

10.6 DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Vision

The graduates produced would be globally recognized as innovative and well-prepared computing professionals. These graduates would be leaders and innovators in the industry, education, and other walks of social life. The faculty working in the department would influence the national and international agenda

through quality in teaching and research. Department would strive for inter-disciplinary pursuits that reinforces the impact of computation in other disciplines.

Mission

The Department Computer Science & Engineering has following missions

- [1] To offer high quality undergraduate and graduate programs, to train the students in different aspects of computing discipline and to offer other training programs to enhance, augment, and/or update technical skills of stake holders.
- [2] To provide a learning environment that helps students to be successful in their professional lives and to prepare students to be lifelong learners by offering a solid theoretical foundation in computing along with applied computing experiences and educating them about their professional, and ethical responsibilities.
- [3] To have high quality faculty and staff with an appropriate know how and degrees with a commitment to remain professionally advanced

through ongoing research and professional development programs.

- [4] To attract and retain a diverse and multicultural population of student, faculty, and staff.

List of Labs

- (i) Information Security
- (ii) Vision
- (iii) Laborator for Post Graduate
- (iv) Computer System
- (v) Computer Programming

- (vi) Software Testing
- (vii) SOA/Distributed Computing

Courses offered by the Department

- (i) B.Tech in Computer Science and Engineering
- (ii) B.Tech in Information Technology
- (iii) M.Tech in Computer Science and Engineering
- (iv) M.Tech in Information Security
- (v) Master of Computer Application
- (vi) Ph.D.

List of Ph.D Thesis completed in 2014-15

Sl No	Name of Student (Reg No)	Thesis title	Supervisor(s)
1.	Manu Vardhan (2010RCS02)	A Dynamic Consistency Aware Secure File Replication Mechanism	Dr. D. S. Kushwaha
2.	Chintan Kumar Mandal (2008RCS10)	Applications of Delaunay Triangulation for some 2 D – Euclidean Geometric Graph Problems in the Online and Kinetic Environment	Prof. Suneeta Agarwal
3.	Mohamed Meftah Alrayes (2009RCS13)	Performance Enhancement MANET Routing Protocol Over Hybrid Wireless Mesh Network	Dr. A. K. Mishra & Dr. Neeraj Tyagi
4.	Vikas Maheshkar (2008RCS15)	Face Recognition using Holistic and Feature Based Approaches	Prof. Suneeta Agarwal & Prof. V. K. Srivastava
5.	Archana Shukla (2008RCS12)	A Study of Relationship between Symbols and Sentiments for Management of Annotated Academic Resources	Prof. B. D. Chaudhary
6.	Anoj Kumar (2006RCS04)	Efficient Test Case Generation: An Approach using Elitist Genetic Algorithm	Dr. A. K. Mishra
7.	Shrabani Mallick (2009RCS54)	A Hybrid Framework for Efficient Web Service Discovery and Composition	Dr. D. S. Kushwaha
8.	Deepak Kr. Singh (2011RCS04)	Variants of PSO and its Application in Software Cost Estimation	Prof. A. K. Mishra
9.	Aprna Tripathi (2010RCS51)	Managing Design Phase Package Level Coupling & Cohesion and Reducing the Design Document Comprehension Effort	Dr. D. S. Kushwaha & Prof. A. K. Mishra

Publication in International Journals

- [1] N. Bhardwaj and S. Agarwal, "An imaging technique for retrieval of lost content in damaged documents," *International Journal of Computer Application*, vol. 104, no. 5, 2014. (I.F. = 3.12)
- [2] M. Sharma, K. Sain, and S. Agarwal, "GES: A group based encoding of shares for visual cryptography without pixel expansion," *International Journal of Computer Applications*, vol. 91, no. 3, pp. 1-7, 2014. (I.F. = 3.12)
- [3] A. P. Shukla and S. Agarwal, "An enhanced cellular automata based scheme for noise _ltering," *International Journal of Signal*

Processing, Image Processing and Pattern Recognition, vol. 7, no. 4, pp. 231-242, 2014. (I.F. = NA)

- [4] B. Rajitha, M. S. Pandey and S. Agarwal, "Computer assisted automated detection of knee osteoarthritis using x-ray images," *International Journal of Regulation and Governance*, vol. 1, no. 2, pp. 74-79, 2015. (I.F. = 00)
- [5] K. Singh, R. S. Yadav, "Efficient Multicast Congestion Control," *Wireless Personal (pers) Communication*, vol. 78, pp. 1159-1176, 2014, (Impact Factor: 0.979). (I.F. = NA)

- [6] A. K. Yadav, R. S. Yadav and R. Singh, "New Heuristic Algorithms for Constructing Connected Dominating Set in Wireless Ad hoc Networks," *International Journal of Electronics* (Taylor & Francis Group) (SCI index I.F.=0.751).
- [7] G. Mohit, R.B.Mishra and R.S. Yadav, "Application of Data Mining Models in the Diagnosis of Neuropsychiatric Diseases," *International Journal of Data Mining and Emerging Technologies*. (2014), vol. 4, Issue: 2, pp. 71-82, 2014. (I.F. = NA)
- [8] G. Mohit, R.B.Mishra and R.S. Yadav, "Classical And Intelligent Computing Methods In Psychiatry And Neuropsychiatry: An Overview," *International Journal of Advanced Research in IT and Engineering* (ISSN: 2278-6244), vol.3, no. 12, pp. 1-24, 2014. (I.F. = NA)
- [9] A.K. Yadav, R.S. Yadav, R. Singh and A.K. Singh, "Connected dominating set for wireless ad hoc network: A Survey," *Int. J. Engineering Systems Modelling and Simulation*, vol. 7, no. 1/2015, pp. 22-34, 2014. (I.F. = NA)
- [10] H.M. Singh, R. S. Yadav and R. Yadav, "Efficient Design of p-Cycles for Survivability of WDM Networks Through Distributed Cycle Pre-Configuration (DCPC) Protocol", *International Journal of Computer Networks (IJCN)*, vol. 6, no. 6, pp. 108-117, 2014. (I.F. = NA)
- [11] A.Tripathi, D. S. Kushwaha, "A Metric For Package Level Coupling," Springer - CSI Transactions on ICT (CSIT), DOI 10.1007/s40012-015-0061-0, Feb' 2015. (I.F. = NA)
- [12] M.Vardhan, D. S. Kushwaha, "A dynamic file replication and consistency mechanism for efficient data center operation and its formal verification," *Acta Polytechnica Hungarica*, vol. 11, no. 8, pp. 65-85, 2014. (I.F. = NA)
- CIPECH14, Ghaziabad,India November 28 & 29, 2014.
- [3] R. Bakhthula and S. Agarwal, "An iterative thresholding method for epiphysis roi segmentation for radiographic images," *ACM Proceedings of the 2015 International Conference on Advanced Research in Computer Science Engineering Technology, ICARCSET, Unnao, India March 06 - 07, 2015.*
- [4] A. Tiwari, B. Rajitha and S. Agarwal, "Image segmentation and defect detection techniques using homogeneity," *Inbush Era 2015 International Conference on Futuristic Trends in Computation Analysis and Knowledge Management, New Delhi, India. 25-27 Feb. 2015.*
- [5] M. Srivastava, B. Rajitha and S. Agarwal, "Noise reduction methods in radiographic images for medical diagnosis," *Inbush Era 2015 International Conference on Futuristic Trends in Computation Analysis and Knowledge Management, New Delhi, India. 25-27 Feb. 2015.*
- [6] P. Singh, S. Shivani and S. Agarwal, "A chaotic map based dct-svd watermarking scheme for rightful ownership verification," *Student Conference on Engineering and Systems, MNNIT, Allahabad, May 28-30, 2014.*
- [7] N. Shukla, M. Pandey, "Stochastic Modeling and Performance Evaluation of an Event Based System," *Future Internet of Things and Cloud (FiCloud)*, 2014, pp. 491-496 Publisher: IEEE Barcelona, Spain, Aug, 2014.
- [8] D. Ghosh, M. Pandey, N. Tyagi, "Stochastic modelling and analysis of video on demand system with VCR functionalities," *Computer Science and Engineering Conference (ICSEC), International*, pp. 78-84, Publisher: Khon Kaen, IEEE, July, 2014.
- [9] D. Ghosh, P. Rajan, M. Pandey, "P2P-VoD Streaming: Design Issues and User Experience Challenges," *Advanced Computing, Networking and Informatics, Volume 2: Wireless Networks and Security Proceedings of the Second International Conference on Advanced Computing, Networking and Informatics (Icacni-2014)*, vol. 28, pp. 9, Publisher: 22-24 Sept 2014, Kolkata, India, Springer, 2014.
- [10] S. Agrawal, R. S. Raw, N. Tyagi, "Enhancing Greedy Routing using Fuzzy Logic for Vehicular Ad hoc Networks," *Proceedings of the International Conference on Advances in Computing, Control and Networking-ACCN*

Publication in Conferences

- [1] A. P. Shukla and S. Agarwal, "Training cellular automata for salt and pepper noise Itering," *International Conference on Innovative Applications of Computational Intelligence on Power, Energy and Controls with their Impact on Humanity, Ghaziabad,India, Nov. 28 & 29, 2014, CIPECH14.*
- [2] A. P. Shukla and S. Agarwal, "Training two dimensional cellular automata for some morphological operations," *International Conference on Innovative Applications of Computational Intelligence on Power, Energy and Controls with their Impact on Humanity,*

2015; Bangkok, Thailand, pp. 98-102, 3 - 4 January 2015.

- [11] A. Pandey, S. Srivastava, "An approach for virtual machine image security," IEEE International Conference on Signal Propagation and Computer Technology (ICSPCT), pp. 616-623, Ajmer, India, July, 2014.
- [12] A. Gupta, N. Mishra, A. Tripathi, M. Vardhan, D.S. Kushwaha, "An improved history-based test prioritization technique using code coverage," Lecture Notes in Electrical Engineering, 315, pp. 437-448, Springer Switzerland, 02 November 2014.
- [13] S. Pippal, S. Singh, R.K. Sachanand, D.S. Kushwaha, "High Availability of Databases for Cloud," 2nd International Conference on Computing for Sustainable Global Development, INDIACOM-2015-IEEE, New Delhi, 11-13 March 2015.
- [14] S. Papal, S. P. Singh and D. S. Kushwaha, "Data Transfer From MySQL To Hadoop: Implementers' Perspective," International Conference on Information and Communication Technology for Competitive Strategies- ACM, Udaipur, Nov, 2014.
- [15] S. Pippal, A. Shukla and D.S. Kushwaha, "Implementation of Distributed Searching and Sorting using Hadoop MapReduce," International Conference on Information and Communication Technology for Competitive Strategies- ACM, Udaipur, Nov, 2014.
- [16] A. Maheshwari, A. Tripathi and D.S. Kushwaha, "A New Design Based Software Coupling Metric," 13th IEEE International Conference on Information Technology, ICIT 2014, Bhubaneswar, December 2014.

Other Achievements

- (i) Department organized International Conference on computer and communication Technology (ICCCT) on September 26-28, 2014.
- (ii) Department organized National Conference on "Information Security & Computer Forensic" (WISCF-2014) on June 23-28, 2014.
- (iii) Department organized workshop on "Matlab & Latex" (SIMDOC, 2014) from June 31 to July 05, 2014.
- (iv) Department organized National Workshop on "NMEICT Awareness" (NMEICT 2014) on August 29-30, 2014.
- (v) Department organized International Workshop "Nature Inspired algorithm and its application in software Engineering (NIASE-2014)" on October 07-11, 2014.

10.7 DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Vision

The vision of the Electronics and Communication Engineering Department is to become a globally leading department of higher learning, building upon the culture, the values of universal science and contemporary education, and a center of research and education generating the knowledge and the technologies which lay the groundwork in shaping the future in the fields of Electronics and Communication Engineering.

Mission

The mission of the Electronics and Communication Engineering Department is to provide quality education and research leading to B.Tech., M.Tech. and Ph.D. degree in the area of Electronics and Communication Engineering and Technology which may produce globally acceptable high quality skilled manpower. To impart technical education which may provide innovative skills in their respective area of specialization for society in general with universal moral values, adherent to the professional ethical codes. To generate and disseminate knowledge and technologies essential to the local and global needs in the field of Electronics and Communication Engineering.

List of Labs

- (i) Basic Electronics
- (ii) Advanced Electronics
- (iii) VLSI
- (iv) Computer Architecture
- (v) Communication
- (vi) Project and PCB
- (vii) Microwave
- (viii) PARAM

Courses offered by the Department

- (i) B.Tech in Electronics and Communication Engineering
- (ii) M.Tech in Electronics (Digital System)
- (iii) M.Tech in Microelectronics and VLSI Design
- (iv) M.Tech in Electronics (Communication Engineering)

Courses in which students were admitted in 2014-2015

- (i) B.Tech in Electronics and Communication Engineering
- (ii) M.Tech in Electronics (Digital System)
- (iii) M.Tech in Microelectronics and VLSI Design

(iv) M.Tech in Electronics (Communication Engineering)

List of Ph. D Thesis Completed

Sl. No.	Name of Student (Reg. no.)	Thesis title	Supervisor(s)
1.	Ashok Kumar Shankhwar (2007REL08)	Design and performance evaluation of generalized rake receiver for high data rate over mobile fading channels	Prof. Rajeev Tripathi
2.	Amit Pandey (2009 REL52)	Performance evaluation of Domino CMOS circuits for low voltage VLSI design	Dr. R.A.Mishra and Prof. R.K Nagaria
3.	Shipra Upadhyay (2010REL 02)	Studies of Adiabatic Logic Circuits suitable for energy aware and performance efficient VLSI applications	Dr. R.A.Mishra and Prof. R.K Nagaria
4.	Sanjeev Jain (2010 REL05)	Performance evaluation of wireless mesh networks	Prof. S. Tiwari and Dr. V S Tripathi
5.	Vikas Marotrao Maheshkar (2008RCS15)	Face Recognition using Holistic and Feature Based Approaches	Prof. V. K. Srivastava, & Prof. Suneeta Agarwal, CSED

Publication in International Journals

- [1] S. Vyas, R. Tewary, S. Kumar and P. Chakrabarti, "Effect of Target Material on Characteristics of TiO₂ Thin Film Fabricated by RF Sputtering Method," *Superlattice and Microstructures*, vol. 80, pp. 215-221, 2015.(I. F. = 1.979)
- [2] S. Singh, G. R. Dillip, S. Vyas, Md. R. Hasan, Il-Kyu. Park, P. Chakrabarti and Si-Hyun Park, "Fabrication and characterization of hydrothermally grown MgZnO nanorod films for Schottky diode applications," *Microsystem Technologies (in press)*. (I. F. = 0.875)
- [3] S. Vyas, S. Singh and P. Chakrabarti, "Tailoring Energy Bandgap of Al doped ZnO Thin film by Vacuum Thermal Evaporation Method," *Journal of Nanoscience and Nanotechnology (in press)*, (I. F. = 1.339)
- [4] S. Sharma, C. Periasamy and P. Chakrabarti, "Thickness dependent study of RF sputtered ZnO thin films for Optoelectronic Device Applications," *Electronic Materials Letters (accepted)*. (I. F. = 3.977)
- [5] A. Srivastava and P. Chakrabarti, "Fabrication and electrical characterization of a polycarbazole/ZnO based organic-inorganic hybrid heterojunction diode," *Superlattice and Microstructures*, vol. 88, pp. 723-730, 2015 (I. F. = 1.979).
- [6] S. K. Singh, P. Hazra, S. Tripathi and P. Chakrabarti, "Fabrication and Experimental Characterization of A Sol-gel Derived Nanostructured n-ZnO/p-Si Heterojunction Diode," *Materials Science: Materials in Electronics. vol 26*. pp 7829-7836, 2015 (I. F. = 1.966)
- [7] S. Vyas, P. Giri, S. Singh and P. Chakrabarti, "Comparative study of As-deposited ZnO films by thermal evaporation, pulsed laser deposition and RF sputtering methods for electronic and optoelectronic applications," *Journal of Electronic Materials*, vol. 44, no. 10, pp. 3401-3407, 2015. (I. F. = 1.675)
- [8] A.D.D. Dwivedi and P. Chakrabarti, "Analytical Modelling and Numerical Simulation of Hg_{1-x}Cd_xTe based N⁺/p⁺ photodetector for MWIR free space optical communication," *International Journal of Advanced Applied Physics Research*, vol 2, pp 20-27, 2015, (I.F.=NA)
- [9] A. Srivastava and P. Chakrabarti, "An Organic Schottky Diode (OSD) Based on a-Silicon/Polycarbazole Contact," *Synthetic Metals*, vol. 207, pp. 96-101, 2015. (I. F. = 2.256)
- [10] ADD Dwivedi, Pranav, Gaurav Gupta and P Chakrabarti, "Numerical simulation of HgCdTe based simultaneous MWIR/LWIR photodetector for free space optical communication," *International Journal of Advanced Applied Physics Research*, vol 2, pp 37-45, 2015. (I. F. = NA)
- [11] Sanjeev and P. Chakrabarti, "Numerical Modeling of an InAsSb/InAsSbP Double Heterojunction Light Emitting Diode for Mid-Infrared (2-5 μm) Applications," *Infrared Physics*

- & *Technology*, vol. 67, pp. 382-386, 2014. (I. F. = 1.416)
- [12] S. Chakrabarty, A. Mondal, P. Chakrabarti, S. K. Singh, A. K. Saha and P. Singh, "Synthesis of biocompatible TiO₂nanodots: Glancing angle deposition technique," *Journal of Nannoscience and Nanotechnology* (in press). (I.F. = 1.339)
- [13] S. Sharma, S. Vyas, C. Periasamy and P. Chakrabarti, "Structural and Optical Characterization of ZnO Thin Films for Optoelectronic Device Applications by RF Sputtering Technique," *Superlattice and Microstructures*, vol. 73, pp. 12-21, 2014. (I. F. = 1.979)
- [14] S. Kumar, R. U. Khan and P. Chakrabarti, "Investigation of Pd/TiO₂/Si MIS capacitor as Hydrogen Sensor," *Sensor Review*, vol. 35, pp. 62-67, 2015. (I. F. = 0.616)
- [15] Sanjeev and P. Chakrabarti, "ATLAS simulation of a laser diode for free space optical communication (FSOC) in mid-infrared spectral region," *Opto-Electronics Review*, vol. 22, pp. 41-45, 2014. (I. F. = 1.28)
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Publication in Conferences

- [1] P. Giri, C. Narayan, S. Vyas and P. Chakrabarti, “Fabrication and Characterization of ZnONanorods/Pd-Au Contacts,” 3rd Global Conference on Materials Science and Engineering (CMSE 2014), Shanghai, October 20-23, 2014.
- [2] S. Vyas, S. Singhand and P. Chakrabarti, “Deposition and Characterization of as-deposited ZnO Thin Films by Thermal Evaporation Method,” 3rd Global Conference on Materials Science and Engineering (CMSE 2014), Shanghai, October 20-23, 2014.
- [3] P, Giri, C. Narayan, S. Vyas and P. Chakrabarti, “Comparative studies on the Characteristics of ZnO thin films deposited by single-step and two-step method using RF Sputtering,” International Conference on Devices, Circuits and Communications (ICDCCom-2014), BIT, Mesra, September 12-13, 2014.
- [4] R. Tiwary, S. Vyas, K. Shubham and P. Chakrabarti, “Characterization of TiO₂ Thin Film Deposited by RF Sputtering Method,” International Conference on Devices, Circuits and Communications (ICDCCom-2014), BIT, Mesra, September 12-13, 2014.
- [5] M. Kumar, R. Tripathi and S. Tiwari, “A Reliable Real-time Routing Protocol for Industrial Wireless Sensor Networks,” IEEE Proceedings of 3rd International Conference on Power Control and Embedded Systems (ICPCES-2014), MNNIT Allahabad, pp. 166-170, Dec 26-28, 2014.
- [6] S. Kumar and V. Bhadauria, “Low Power Adiabatic Logic Using DCPAL Block.” Students Conference on Engineering and Systems (SCES) held at MNNIT Allahabad during May 28-30, 2014.
- [7] T. Sharan and V. Bhadauria, “Ultra Low-power Rail-to-Rail Linear Sub-threshold Bulk-driven Transconductor,” International Conference on Power, Control & Embedded Systems (ICPCES 2014), MNNIT Allahabad, Dec 26-28, 2014.
- [8] T. Sharan and V. Bhadauria, “Ultra-Low-Power Bulk and Gate-driven, Class AB, Sub-threshold Transconductor,” 2nd international conference (SPIN-2015), Amity School of Engg. and

- Technology, Amity Univ. Noida, Feb 19-20, 2015.
- [9] J. Singh, R. K. Singh and R. K. Nagaria, "Design and Simulation of Differential Logic with Reduced Logic Tree for High Performance VLSI Circuits," IEEE Proc. Students' Conference on Engineering and Systems (SCES2014), MNNIT Allahabad, May 28-30, 2014.
- [10] S. Pathak, B. Kumar, T. Rashid, and A. Kumar, "Energy Efficient Intra-Hospital Multi-patient Cardiac Monitoring Through ZigBee Network," International Conference on Signal Processing & Integrated Networks, Proc SPIN-2015., Amity University, Noida, February 19-20, 2015.
- [11] T. Rashid, S. Pathak, and B. Kumar, "Performance Evaluation of ZigBee Network for Multipatient Cardiac Monitoring in Telemedicine Scenario," International conference on Medical Imaging, m-Health and Emerging Communication Systems (MedCom) 2014, Greater Noida, pp. 422-427, November 7-8, 2014.
- [12] B. Kumar, S. B. Kumar, and D. S. Chauhan, "Wavelet Based Imperceptible Image Watermarking using Spread-spectrum," International conference on Telecommunication & Signal Processing, Proc. TSP-2014, Berlin, Germany, pp. 660-664, July 01-03, 2014.
- [13] K. Kumar, R. Gupta, B. Kumar, and C. Kumar, "Effect of Wavelet Filters on SFQ Encoder Performance for Medical Images," International conference on Telecommunication & Signal Processing, TSP-2014, Berlin, Germany, pp. 682-685, July 01-03, 2014.
- [14] S. K. Singh, P. Hazra, S. Tripathi and P. Chakrabarti, "Performance analysis of RF sputtered ZnO/Si heterojunction UV photodiode," 4th International conference on Current Development in Atomic, Molecular, Optical & Nano Physics with Application (CDAMOP-2015), Dept. of Physics & Astrophysics, Univeristy of Delhi, March 11-14, 2015.
- [15] J. Rastogi and S. Tripathi, "Comparative Study of Methane (CH₄) Adsorption on (12,0) and (5,5) Bamboo Like Carbon Nano Tubes (BCNTs)," International Conference on Power, Control and Embedded System (ICPCES-2014), MNNIT Allahabad, December 26-28, 2014.
- [16] N. Singh and S. Tripathi, "Analytical Modeling of the Surface Potential of Triple Material Symmetrical Gate Stack Double Gate (TMGS-DG) MOSFET," International Conference on Recent Advances and Innovation in Engineering (ICRAIE-2014), Jaipur, May 09-11, 2014.
- [17] N. Singh, V. K. Singh and S. Tripathi, "Design and Optimization of Tunnel Field Effect Transistor (TFET) Based on ATLASTM Simulation," Students' Conference on Engineering and Systems, (SCES-2014), MNNIT, Allahabad, May 28-30, 2014.
- [18] R. Parihar, V. Narendar, and R. A. Mishra, "Comparative Study of Nanoscale FinFET Structures For High-k Gate Dielectrics," IEEE International Conference on Devices, Circuits and Communications (ICDCCom-2014), BIT Mesra, September 12-13, 2014.
- [19] M. K. Rai, V. Narendar, and R. A. Mishra, "Significance of Variation in Various Parameters on Electrical Characteristics of FinFET Devices," IEEE Student conference on Engineering and Systems (SCES-2014), MNNIT Allahabad, May 28-30, 2014.
- [20] B. Maurya, Y. K. Prajapati, V. Singh, J. P. Saini, "Field confinement of stacked multilayer slab waveguide using grapheme," 12th International Conference on Fiber Optics and Photonics, IIT Kharagpur, Dec 13-16, 2014.

Patents

Prof. P. Chakrabarti and Ms. Aditi, Srivastava, "A novel silicon/polycarbazole organic schottky diode (osd) and the method of fabrication there of International classification:H01L29/20" Application No.2332/DEL/2014 A] INDIA Date of filing of Application :16/08/2014, Publication Date : 24/10/2014

Reviewer in International Journals

Sl. No.	Faculty Name	Journal Name
1.	Prof. P. Chakrabarti	IEEE Sensor Journal Journal of Electronic Material Sensors and Actuators
2.	Prof. H. Kar	Digital Signal Processing Signal Processing Nonlinear Dynamics International Journal of Control, Automation and Systems

3.	Prof. Amit Dhawan	Transactions of the Institute of Measurement and Control Circuits Systems Signal Processing
4.	Prof. R. K. Nagaria	Integration the VLSI Journal, Elsevier WSEAS Trans. on Circuits and Systems IEEE Communications Letters
5.	Dr. Arun Prakash	International Journal of Communication Systems, Willey Interscience International Journal of Distributed Sensor Networks, Hindawi International Journal of Electronics, Taylor & Francis
6.	Dr. Y.K. Prajapati	(i) Sensors & Actuators: B. Chemical, Elsevier publication. (ii) Optics Communications, Elsevier publication (iii) Optics Letters, Optical Society of America (iv) Progress in Electromagnetic Research, USA (v) Infrared Physics & Technology, Elsevier publication
7.	Dr. Santosh Kumar Gupta	(i) Semiconductor Science and Technology, IOP (ii) Microelectronics Journal, Elsevier (iii) Journal of Computational Electronics, Springer (iv) Journal of The Institution of Engineers (India): Series B, Springer
8.	Dr. V. Krishna Rao Kandanvli	Journal of Engineering

Book (s)/Book(s) Chapter(s) Authored

S I. No.	Faculty Name (Author/Co-author)	Book	Book Chapter	Publisher
1.	Rajeev Tripathi & Arun Prakash	Mobile Ad Hoc Networks: QoS Constrained Routing Protocols	--	LAP Lambert Academic Publishing' ISBN: 978-3- 659-31006-5
2.	Rajeev Gupta	Control System Analysis and Design		New Age Publication
3.	Karuppanan	Active Power Line Conditioner	Complete book	Lambert Academic Publishing

Conference/Workshop/Short Term Course Organized by the Department

Sl. No.	Seminar/Conferences	Chair/Co-chair/Coordinator	Duration
1.	National workshop on Advances in Wireless and Optical Networks at MNNIT Allahabad	Dr. Rajeev Tripathi Dr. Arun Prakash Dr. Y. K. Prajapati	June 02-07, 2014
2.	Microelectronic Devices Modeling and TCAD Simulation	Dr.R.A.Mishra, Dr. Shweta Tripathi, Dr. S.K.Gupta	April 14-18, 2014
3.	TEQIP-II Sponsored National Workshop on 'Advanced VLSI, Signal Processing and Communication Network' AVSC-2014.	Prof. Rajeev Tripathi Dr. P. Karuppanan Dr. S. K. Gupta	Dec 19-24, 2014
4.	A Self-financed Short-term Course entitled Advances in Signal and Image Processing (ASIP2014) short term course/workshop	Prof. H. Kar, Prof. V. K. Srivastava and Dr. V.K. Rao K	July 07-11, 2014

Invited Talk/Lectures Delivered

- (i) Lecture delivered by Dr. Vijaya Bhadauria on August 11, 2014 at Jaipur National University, Jaipur on the topic “Linearity issues in Analog IC Design”.
- (ii) Web lecture is delivered by Dr. Vijaya Bhadauria on February 23, 2015 in the seminar “Women in Engineering & Science” organized by MANIT Bhopal during February 23-24, 2015 on the topic “Introduction of VLSI”.
- (iii) Lecture delivered by Dr. Basant Kumar on April 11, 2014 at Bundelkhand Institute of Engineering & Technology, Jhansi on the topic “Challenges in Medical Data Transmission for Wireless Telemedicine”
- (iv) Lecture delivered by Arun Prakash on Nov 26, 2014 at Shepherd School of Engineering & Technology and titled “Physical layer challenges for vehicular communications.”
- (v) Lecture delivered by Dr. Y. K. Prajapati at Sam Higginbottom Institute of Agriculture, Technology & Sciences, Naini, Allahabad in the National workshop on “recent trends in Optical and Wireless Networks” during November 3-7, 2014 and expert talk on “Metamaterials and its application in Optical devices”.

Coordinator/Co-coordinator in Workshops/Short-Term Courses/Training Programme

S.No.	Name	Seminar / Conference	Month and Year
1.	Prof. Rajeev Tripathi	National workshop on Advances in Wireless and Optical Networks	June, 2014
2.	Dr. Arun Prakash	“National workshop on Advances in Wireless and Optical Networks	June, 2014
3.	Dr. Y.K. Prajapati	“National workshop on Advances in Wireless and Optical Networks	June, 2014
4.	Dr. R.A. Mishra	Microelectronic Devices Modeling and TCAD Simulation	April, 2014
5.	Dr. Sweta Tripathi	Microelectronic Devices Modeling and TCAD Simulation	April, 2014
6.	Dr. S.K. Gupta	Microelectronic Devices Modeling and TCAD Simulation	April, 2014
7.	Dr. A. Kumar	self-financed summer training program on VLSI design and Embedded System (VDES-2014)	June-July 2014
8.	Dr. S.Rai	self-financed summer training program on VLSI design and Embedded System (VDES-2014)	June-July 2014
9.	Prof. H. Kar	Self-financed Short-term Course entitled Advances in Signal and Image Processing (ASIP2014)	July, 2014
10.	Prof. V.K. Srivastava	Self-financed Short-term Course entitled Advances in Signal and Image Processing (ASIP2014)	July, 2014
11.	Dr. V.K. Rao K.	Self-financed Short-term Course entitled Advances in Signal and Image Processing (ASIP2014)	July, 2014

Conferences/Workshops/Short-Term Courses/Training Programme Attended

Dr. Y. K. Prajapati attended 12th International Conference on Fiber Optics and Photonics (Photonis-2014), December 13-16, 2014, IIT, Kharagpur, India

Research Projects Ongoing/Completed

Sl. No.	Principal Investigator/ Co investigator(s)	Project Title	Funding Agency	Amount (INR in Lacs)	Duration (Status)
1.	Prof. P. Chakrabarti	Design and Development of Low Cost Plastic Devices for Electronics and Photonic Applications	DRDO, New Delhi	38.09	Sanctioned vide DRDO letter no.: ERIP/ER/0803699/1423 dated : 16-04-2012
2.	Dr. Shweta Tripathi	Fabrication of Nanostructured bioelectrode	TEQIP-II MNNIT Allahabad	3.54	Sanctioned vide letter no.:146/R&C/13-14, dated 02/09/2013
3.	Dr. Shweta Tripathi	Effect of deposition parameters on the performance of Si/ZnO heterojunction devices prepared by RF magnetron sputtering technique	TEQIP-II MNNIT Allahabad	3.29	sanctioned vide letter no.:137/TEQIP-II/Innovative Research/2014, dated 11/10/2014
4.	Dr. Shweta Tripathi	Analytical Modeling and Simulation of Engineered MOSFETs	Plan grant of the Institute-MNNIT	2.15	sanctioned vide letter no.:248/R&C/14-14, dated 27/11/2014
5.	Dr. Y.K. Prajapati	Design and Study of Sensitivity of optical biosensors having Metamaterials	Science and Engineering Research Board, Department of Science & Technology, New Delhi, India	23.39	June 2014, for Three years
6.	Dr. Y.K. Prajapati	Design of biosensors using metal clad for sensing application	TEQIP-II, MNNIT, Allahabad	3.00	September 2013, Going to completion
7.	Dr. Y.K. Prajapati	Simulation and numerical analysis of optical microstructure fibers	Under plan grant of the Institute for new faculty	2.00	August 2013, Completed
8.	Dr.P. Karuppanan	Embedded FPGA controller based active power line conditioners for industrial electronics	TEQIP-II Grant of MNNIT Allahabad	5.33	02-09-2013 to 31-12-2014
9.	Dr.P. Karuppanan	Design and Development of an FPGA Controller for PEM Fuel Cell Power Systems	DAE, BRNS; San. No. 34/14/53/2014-BRNS dated 12/12/2014	18.89	Dec- 2014 to Dec-2017

Other Relevant Information

- (i) Prof. Amit Dhawan Listed in Marquis's Who's Who in the World, USA.
- (ii) Asim Mukherjee Organized Annual Techno-management Fest "AVISHKAR-2104" of the Institute in 2014-2015 as Faculty Coordinator. This was organized at national level.
- (iii) Asim Mukherjee Organized Annual Cultural Fest "CULRAV-2015" of the Institute in 2014-2015 as Faculty Coordinator at national level.
- (iv) Asim Mukherjee Organized national level quizzing event Gnosomania in AVISHKAR-

2014 in 2014-2015.

- (v) Dr. Y. K. Prajapati gives consultancy to Veekay Connectors (P) Ltd., Naini, Allahabad for Confirmatory tests of fiber optical splitter with microlens chip (As a member)
- (vi) Prof. Haranath Kar has served as a Member of Editorial Board of
 - (i) Mathematical Problems in Engineering (SCI Journal)
 - (ii) Journal of Engineering (Hindawi)

10.8 DEPARTMENT OF ELECTRICAL ENGINEERING

Vision

The electrical engineering program vision is to provide quality teaching with a strong core engineering concepts and an application-oriented undergraduate and post-graduate education along with solid foundation in the rapidly expanding fields of electrical engineering that enable them to produce high quality professionals. This includes trans-disciplinary teaching and research. Our goal is to provide students with a sound knowledge and understanding of current theories, concepts and laboratory practices in electrical engineering.

Mission

To generate high quality engineering professionals by offering B.Tech. and M.Tech. programmes in electrical engineering and to develop a premier electrical engineering teaching

and research department to cater the needs and challenges of the region and the country.

List of Labs

- (i) Control System Lab
- (ii) Virtual Instrumentation Lab
- (iii) Measurement Lab
- (iv) Simulation Lab
- (v) Power Electronics Lab
- (vi) Machine Lab
- (vii) Power System Lab

Courses Offered by the Department

Under Graduate program:

B.Tech in Electrical Engineering

Post Graduate:

M.Tech in Control & Instrumentation/ Power Systems

M.Tech in Power Electronics & Drives

M.Tech in Power System

Doctoral Degree

Doctor of Philosophy

Courses in which students were admitted in 2014-2015

- (i) B.Tech in Electrical Engineering
- (ii) M.Tech in Control & Instrumentation/ Power Systems
- (iii) M.Tech in Power Electronics & Drives
- (iv) Ph.D

List of Ph. D Thesis Completed

Sl. No.	Name of Student (Reg. no.)	Thesis title	Supervisor(s)
1.	Bhanu Pratap (2009REE53)	Real-Time Implementation of Nonlinear Observer Based Controllers for Twin Rotor MIMO System.	Prof. Shubhi Purwar
2.	Anshul Agarwal (2009REE01)	FPGA Based Generalized Frequency Converter.	Prof. Vineeta Agarwal
3.	Rajasekar S. (2010REE54)	Solar Photovoltaic Power Conversion System Using DC-DC and DC-AC Converters control	Dr. Rajesh Gupta
4.	Shashi Kant Pandey (2009REE56)	Load Frequency Control in Hybrid Power System	Dr. S.R. Mohanty
5.	Surya Prakash Singh (2005REE01)	Power Quality improvement Through NPC Converter Using ANN Based SVPWM Technique	Prof. R.K. Tripathi
6.	Nikhil Kumar Yadav (2007REE04)	Discrete-Time Fuzzy Sliding Mode Control System with state Time Delay	Prof. R.K. Singh
7.	Shweta Gautam (2010REE11)	Switching Characterization of Current Controlled DC-AC and AC-DC Converters	Dr. Rajesh Gupta
8.	Tarun Varshney	A Neural Network Based PID Control of	Prof. Vineeta Agarwal

	(2009REE09)	Nonlinear MIMO Systems	
9.	Kamala Kant Mishra (2007REE01)	Load Characterization and Compensation in Low Voltage Distribution System	Dr. Rajesh Gupta
10.	Premananda Pany (2008REE02)	Load Current Sharing and Power Management in Hybrid Source FED DC & PMSM Drive for Electric Vehicle Application	Prof. R.K. Tripathi Prof. R.K. Singh
11	Anirudha Narain (2006REE04)	Model Order Reduction Using Fuzzy C-Means Clustering	Prof. R.K. Singh Prof. Dinesh Chanra

Publication in International Journals

- [1] N. Singh and V. Agarwal, "A New Random SPWM Technique for AC-AC Converter Based WECS," *Journal of Power Electronics*, vol. 15, no. 4, pp. 939-950, 2015, (I.F. = 0.97).
- [2] N. Singh and V. Agarwal, "Single-Stage AC-AC Power Conversion for WECS," *International Journal of Electrical Power and Energy Systems*, vol. 64, pp. 734-742, 2015. (I.F. = 3.43)
- [3] R. Pratap, V. Agarwal and R. K. Singh, "SiC Based Single Chip Programmable AC to DC Power Converter," *Journal of Semiconductor Technology and Science*, vol. 14, no. 6, 2014. (I.F. = 2.190)
- [4] R. D. Shukla and R. K. Tripathi, "A Novel Voltage & Frequency Controller for Standalone DFIG based Wind Energy Conversion System," *Renewable and Sustainable Energy Reviews*, vol. 37, pp. 69-89, 2014, (I.F. = 5.901).
- [5] S. Gupta and R. K. Tripathi, "Two-Area Power System Stability Improvement using a Robust Controller-Based CSC-STATCOM," *Journal of applied Sciences, Acta Polytechnica Hungarica*, vol. 11, no. 7, pp. 135-155, 2014, (I.F. = 0.6).
- [6] S. Gupta, R. K. Tripathi, "Transient Stability Assessment of Two-Area Power system with robust Controller based CSC-STATCOM," *Journal of Control Engineering and Applied Informatics*, vol. 16/3, pp. 3-12, 2014, (I.F. = 0.4).
- [7] S. Gupta, R. K. Tripathi, "Optimal LQR Controller in CSC based STATCOM using GA and PSO Optimization," *Archives of Electrical Engineering (AEE)*, vol. 63/3, pp. 469-487, 2014, (I.F. = 0.893).
- [8] S. Gupta, R. K. Tripathi, "Transient Stability Assessment of Two-Area Power System with Robust Controller based CSC-STATCOM," *Journal of Control Engineering and Applied Informatics*, vol. 16/3 pp. 3-12, 2014, (I.F. = 0.4).
- [9] S. Gupta, R. K. Tripathi; "Transient Stability Assessment of Two-Area Power System with LQR based CSC-STATCOM," *AUTOMATIKA –Journal for Control, Measurement, Electronics, Computing and Communications*, vol. 56, no. 1, 2015, (I.F. = 0.349).
- [10] V. Sharma and S. Purwar, "Nonlinear Controllers for a Light Weighted All-Electric Vehicle using Chebyshev Neural Network," *International Journal of Vehicular Technology*, Article Id 867209, vol. 2014, 2014. (I.F. = NA)
- [11] V. Sharma and S. Purwar, "Chebyshev Neural Network based Discrete-time Adaptive Speed Control for a Light Weighted All-Electric Vehicle," *International Review of Electrical Engineering*, vol. 9, no. 1, pp. 92-102, 2014. (I.F. = NA)
- [12] B. Pratap and S. Purwar, "Real-Time Implementation of Neuro Adaptive Observer Based Robust Backstepping Controller for Twin Rotor Control System," *Journal of Control, Automation and Electrical Systems*, vol. 25, 2014. (I.F. = NA)
- [13] R. Selvamuthukumar, and R. Gupta, "Rapid prototyping of power electronics converters for photovoltaic system application using Xilinx System Generator," *IET Power Electronics*, vol. 7, no. 9, pp. 2269-2278, 2014. (I.F. = 1.99)

Publication in International Conferences

- [1] R. Pratap, R. K. Singh and V. Agarwal, "Overview of various available Spice Simulators," *ICPCES 2014, MNNIT Allahabad, INDIA*, December 26-28, 2014.
- [2] S. Gupta, Prof. R. K. Tripathi, "Improved Performance of LQR Controller in CSC Based STATCOM Using Genetic Optimization," *6th IEEE POWER INDIA International Conference-2014, Delhi Technological University, Delhi*, December 05-07, 2014.
- [3] R. Dev Shukla, and R. K. Tripathi, "Speed-sensorless Voltage & Frequency Control in

- Autonomous DFIG based Wind Energy Systems,” IEEE Australian Universities Power Engineering Conference (AUPEC-2014), Curtin University, Western Australia, Perth, September 28- October 01, 2014.
- [4] J. L. Beniwal and R. K. Tripathi, “Speed Control of SRM Drives using a New Power Converter Configuration in Electric Vehicles,” IEEE Australian Universities Power Engineering Conference (AUPEC-2014), Curtin University, Western Australia, Perth, September 28- October 01, 2014.
- [5] V. Sharma and S. Purwar, “Adaptive Speed Control of a Light Weighted All-Electric Vehicle with Unknown Time-delay,” SCES, Allahabad, May 28-30, 2014.
- [6] S. Mishra and S. Purwar, “To Design Optimally Toned FOPID Controller for Twin Rotor MIMO system,” 2014 Students Conference on Engineering and Systems (SCES 2014), MNNIT Allahabad, May 28-30, 2014.
- [7] A. Pati, S. Singh and R. Negi, “Sliding Mode Controller Design Using PID Sliding Surface For Half Car Suspension System,” 2014 Students Conference on Engineering and Systems (SCES 2014), MNNIT Allahabad, May 28-30, 2014.
- [8] V. Singh, V. C. Pal, S. Singh and R. Negi, “An analysis of discrete time anti-windup system subjected to saturation: An observer based approach,” 2014 Students Conference on Engineering and Systems (SCES 2014), MNNIT Allahabad, May 28-30, 2014.
- [9] A. Pati and R. Negi, “Suboptimal Control of Magnetic Levitation (Maglev) System,” 3rd International Conference on Reliability, Infocom Technologies and Optimization (ICRITO 2014), Amity University Noida, October 08-10, 2014.
- [10] M. Bhunia, R. Gupta and B. Subudhi, “Cascaded DC-DC Converter for a Reliable Standalone PV fed DC load,” 6th IEEE India Conference on Power Electronics, Krukshetra, India, December 08-10, 2014.
- [11] G. V. E. Satish and R. Gupta, “Second Order Sliding Mode Control for a Single Phase Voltage Source Inverter,” IEEE TENCON 2014, Bangkok, Thailand, October 22-25, 2014.
- [12] P. Haritha, V. Karthikeyan and R. Gupta, “Universal Maximum Power Point Tracking in Wind- Solar Hybrid System for Battery Storage Application,” IEEE Sponsored International Conference on Embedded Systems (ICES 2014), Coimbatore, India, July 03-05, 2014.
- [13] M. Kumar and R. Gupta, “Analysis of Voltage and Current for Multicarrier Based Multilevel Inverter,” IEEE Sponsored Students Conference on Engineering and Systems (SCES 2014), Allahabad, India, May 28-30, 2014.
- [14] P. Rajesh, S. Rajasekar, R. Gupta and P. Samuel, “Solar Array System Simulation using FPGA with Hardware Co-Simulation,” 23rd IEEE Symposium on Industrial Electronics (ISIE-2014), Istanbul, Turkey, June 01-04, 2014.

Reviewer in International Journals

Sl. No.	Faculty Name	Name of Journal
	Prof. Vineeta Agarwal	IEEE Transactions on Power Electronics IEEE Transactions on Industrial Electronics IEEE Transactions on Small Grid Reviewer of International Journal of Power Electronics IET on Circuits, Devices & Systems IET Power Electronics Reviewer of Journal of Power Electronics

Conference/Workshop/Short Term Course Organized by department

Sl. No.	Seminar/Conferences	Chair/Co-chair/Coordinator	Month & Year
1.	International Conference Power Control and Embedded Systems (ICPCES)-2014	Prof. R.K. Tripathi Dr. R.K. Gupta	Dec.26-28, 2014
2.	IEEE Students' Conference on Engineering & systems (SCES)-2014	Prof. R.K. Tripathi Prof. Subhi Purwar Dr. Richa Negi	May 28-30, 2014

Invited Lectures Delivered

Sl. No.	Title of Lecture	Short Term Course/Conference/	Date	Org.
1.	Power Conversion and Switch Mode Rectifiers	SF STC-Power Conversion of Renewable Energy Resources, Jan. 29-Feb.03, 2015	Feb 03, 2015	EED, MNNIT Allahabad
2.	AC to DC Power Conversion and its Control	SF STC- Power Electronics and its Control	Jan 27, 2015	EED, MNNIT Allahabad
3.	Power Electronics Devices and Its Applications	SF STC- Power Electronics and its Control	Jan 29, 2015	EED, MNNIT Allahabad
4.	Electric Power Quality indices for AC to DC Power Conversion	SF STC- Electric Power Quality: Analysis and Improvements	Jan 21, 2015	EED, MNNIT Allahabad

Workshops / Short - Term Courses / Training Programme

MNNIT Allahabad

Sl. No	Workshops / Short - Term Courses / Training Programme	Duration
1.	Power Conversion of Renewable Energy Resources at EDD, MNNIT Allahabad	Jan. 29- Feb. 3, 2015
2.	Power Electronics and Its Control (PEC-2015) at EDD, MNNIT Allahabad	Jan. 27-31, 2015
3.	Electric Power Quality: Analysis and Improvement (EPQAI-2015) at EDD,	Jan. 21-25, 2015

Conferences/Workshops/Short-Term Courses / Training Programme Attended

- [1] Prof. R. K. Tripathi attended International Conference on Australian Universities Power Engineering Conference (AUPEC)- 2014 on Sept.28-Oct 01, 2014 at Curtin University, Perth Australia.
- [2] Prof. R. K. Tripathi attended International Conference on Three Day NBA Workshop on Outcome Based Teaching Learning on Nov. 27-29, 2014 at Nodal Centre JSSATE, NOIDA.

Research Projects Ongoing/Completed

Sl. No.	Principal Investigator / Co investigator(s)	Project Title	Funding Agency	Amount (INR in Lacs)	(Status)
1.	Prof. R. K. Tripathi & Mr Sandeep Gupta	Modelling and Controller Design for CSC based STATCOM	TEQIP-II, MNNIT Allahabad	1.00	2013-2014 Completed
2.	Prof. R. K. Tripathi & Mr Rishabh Dev Shukla	Stand-alone DFIG based Wind Energy Conversion System	TEQIP-II, MNNIT Allahabad	1.00	2013-2014 Completed
3.	Prof. R. K. Tripathi & Mr Jhoomar Lal Beniwal	Switched-Reluctance Motor Drive for Electric Vehicle Application	TEQIP-II, MNNIT Allahabad	1.50	2013-2015 Completed

10.9 GIS CELL

Vision

To establish an identity in the area of geoinformatics amongst national and international academic and research organisations through knowledge creation, acquisition and dissemination for the benefit of Society and National development.

Mission

To provide quality education and interdisciplinary research leading to M.Tech. and Ph.D. degree in GIS and Remote Sensing, which produces globally acceptable skilled manpower. To generate and disseminate knowledge and technologies essential to

the local and global needs in the field of geoinformatics.

List of Labs

- (i) Geoinformatics Lab I (GI2151)
- (ii) Geoinformatics Lab II (GI2251)

Courses Offered by the Department:

- (i) M. Tech. (GIS & Remote Sensing) and
- (ii) Ph.D. (GIS & Remote Sensing)

Courses in which students were admitted in 2014-2015:

- (i) M. Tech. (GIS & Remote Sensing) and
- (ii) Ph.D. (GIS & Remote Sensing)

List of Ph.D Thesis Completed

Sl.No.	Name of Student (Reg. No.)	Thesis Title	Supervisor(s)
1.	Garima Srivastava (2010RGI01)	Development of Web GIS Based Decision Support System to Assess and Evaluate the Education System: A Case Study of Primary Schools of Bundelkhand Region of Uttar Pradesh (India)	Prof. R. C. Vaishya and Prof. R. K. Srivastava

Publication in Conferences

- [1] R. Dwivedi, P. Varshney, A. Tiwari, A. B. Narayan, A. K. Singh, and O. Dikshit, "Assessment of slope stability using PS-InSAR technique," International Archives of the Photogrammetry, Remote Sensing and Spatial Information Science, ISPRS technical commission VIII symposium, Hyderabad, India vol. XL-8, pp. 35-38, 2014.

National Seminar on Geospatial Technology & 3D Applications for Sustainable Development of land Resources," key note lecture, organized by U.P. Landuse Board, Department of Planning Govt. of Uttar Pradesh & Remote Sensing Applications Centre, Uttar Pradesh Department of Science & Technology Govt. of Uttar Pradesh, Lucknow, U.P, March 12-13, 2015.

- [2] M. Yadav, "Roadway features inventorization using mobile terrestrial laser scanning," presented in DST-National Meeting on Airborne LiDAR at IIT Kanpur Jan 19-20, 2015.

Invited Lectures Delivered

- [1] M. Yadav, "Software package designed for generating DEM using LiDAR data, 3D Application and terrain analysis session of

Research Projects Ongoing/Completed

Sl. No.	Principal Investigator/Co investigator(s)	Project Title	Funding Agency	Amount (INR in Lacs)	Duration (Status)
1.	Mr. Ramji Dwivedi	Multi-sensor approach for landslide monitoring	NRDMS (DST)	36.61	2015-2018 (Ongoing)
2.	Mr. Ramji Dwivedi	A study of slope monitoring using PS-InSAR approach	MNNIT Allahabad	2.00	2015-2017 (Ongoing)
3.	Mr. Manohar Yadav	Development of software package for DEM generation and road extraction using LiDAR data	TEQIP-II	2.00	2014-2015 (Ongoing)

4.	Mr. Manohar Yadav	Development of software package for highway applications using LiDAR data.	R&C, MNNIT Allahabad	2.00	2015-2017 (Ongoing)
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Other Activities

- (i) A welcome function for the newly admitted students was organised on Sept 24, 2014

10.10 DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

Vision

To be provider of nationality competitive, high quality skilled human resources in promotion of socio-economic and developmental activities appropriate to the enrichment of quality of life of the common people, along with achieving the target of sustainable of growth.

Mission

To inculcate socio-economic and cultural ethos among the budding young professionals by enhancing their competence and efficiency.

List of Lab

Language Lab

Courses Offered by the Department

- (i) B.Tech.
(ii) Master of Social Work
M.C.A., I Semester (Accounting and Financial Accounting)

Courses in which students were admitted in 2014-2015

Master of Social Work

List of Ph. D Thesis Completed

Sl. No.	Name of Student (Reg. No.)	Thesis title	Supervisor(s)
1.	Anushree Singh (2008RHU05)	Corporate Social Responsibility : A comparative study of Public and Private sector Enterprises in India	Dr. Rajesh Kumar Shastri
2.	Malavika Sinha (2009RHU01)	Managing Human Resource management towards corporate Excellence: A Comparative study of High and Low on Excellence organization in India	Dr. Rajesh Kumar Shastri
3.	Ms Shilpa Shukla (2008RHU06)	Construction of Self: A Study of Women Characters in the novels of Gloria Naylor	Prof. Niroj Banerji

Publication International Journals

- [1] A. Sinha, "Stress among Students: A Comparison Between Undergraduate and Postgraduate Students," *TIJ's Research Journal of Commerce & Behavioral Science – RJCBS*, vol. 3, no. 11, 2014, (I.F.= 3.203).
- [2] A. Sinha, "A subjective assessment of impact of physical facilities, food facilities and academic environment on students' and teachers' satisfaction/comfort level with special reference to primary schools," *International Journal's Research journal of Social Sciences and Management*, vol. 4, no. 2, 2014, pp. 137-143 (I.F.=: 3.454).
- [3] A. Sinha "A comparative study on psychological aspect of leprosy patients before occurrence and after medical check-up of leprosy," *Progress In Science in Engineering Research Journal*, vol. 02, no. 02/06, pp. 2347-6680 (E), 2014 (I.F.= 3.65)
- [4] A. Sinha, "For youth: acts and tacts besides facts," *International Journal's Research journal of Social Sciences and Management*, vol. 3, no. 11, 2014, (I.F.= 3.454).
- [5] A. Sinha, "HR, Creativity: An All-Embracing Ability," *International Journal's Research journal of Social Sciences and Management*, vol. 3, no. 10, pp. 89-94, 2014, (I.F.= 3.454).
- [6] A. Sinha, "TQM: A Comparative Study Between Teachers And Students," *International Journal's Research journal of Social Sciences and Management*, vol. 3, no. 11, pp. 216-222, 2014, (I.F.= 3.454).
- [7] A. Sinha, "Stress management in public sector undertaking with special reference to BPCL, Naini Allahabad," *International Journal's Research Journal of Commerce & Behavioural Sciences*, ISSN: 2251-1547, 2014 (I.F.= NA).

- [8] A. Sinha, "Gender Disparity In The Current Indian Workforce: Concern & Causes Zenith," *International Journal of Multidisciplinary Research*, vol. 3, no. 9, 2014 (I.F.=5.299).
- [9] R. Tripathi and A. Akhtar, "Analysis of Convergence Process towards International Financial Reporting Standards in India: A Case Study of Selected Indian Companies," *IFSMRC AIJRM*, vol. 02, no. 03, pp. 01-23, 2014 (I.F.= NA).
- [10] R. Tripathi, A. Akhtar and Mayank, "International Financial Reporting Standards: A case study of select Indian companies," *Excel International Journal of Multidisciplinary Management Studies*, vol. 4, no. 4, pp. 11-32, 2014 (I.F.= NA).
- [11] R. Tripathi and S. Bagchi, "An Assessment of out of Pocket Expenditure of Health Care Services in India: Aspects, Consequences and Ameliorative Strategies," *TIJ Research Journal of Social sciences & Management*, vol. 4, no. 2, pp. 52-57, 2014 (I.F.= NA).
- [12] R. Tripathi and S. Agarwal, "An Empirical Study of Marketing for Guava and its sub-products by farmers in Allahabad: an approach towards agripreneurship through food processing units," *International Journal Business and Globalisation*, Inderscience Publishers Ltd., vol. 13 no.1, pp. 69-75, 2014 (I.F.= NA).

Publication International Conferences

- [1] A. Sinha, "Effect of Proficiency in English on the Performance of B.Tech. Students in Group Discussion," International Conference on Advances in Social Science, Economics and Management Study –SEM Conference, 2014.
- [2] J. Sinha, "Leadership Skills Embedded in Communication" International Conference on English Studies and Shakespeare: A Global Perspective held at Amity University, Lucknow, 2015.

Book(s)/Book(s) Chapter(s) Authored

Sl. No.	Faculty Name (Author/Co-author)	Book	Book Chapter	Publisher
1.	Dr. Rajesh Kumar Shastri	Dimension of Public Policy : Changing Scenario	Effect of FDI on rural retail sector in India: An analytical study	Excel India Publishers, ISBN No. 978-93-83842-22-3
2.	Dr. Rajesh Kumar Shastri	Dimension of Public Policy : Changing Scenario	Mahatma Gandhi National Rural Employment Guarantee Act: With special reference to empowerment of marginalized community	Excel India Publishers, ISBN No. 978-93-83842-22-3
3.	Dr. Rajesh Kumar Shastri	Rural Development in India : A new perspective	ICT: A tool for enhancing rural development through E rural marketing Model (E Grameen Seva- A proposed Model)	Excel India Publishers, ISBN No. 978-93-83842-21-6
4.	Dr. Rajesh Kumar Shastri	Rural Development in India : A new perspective	Constructive Alliances through Public Private Partnership: Enabling creative strategies in health sector	Excel India Publishers, ISBN No. 978-93-83842-21-6
5.	Tripathi Ravindra & Nisha.	Applications on Computational and Financial Econometrics	Regression Analysis Of Prime Lending Rate With Reference To Key Policy Rates Of Rbi: An Empirical Study Of Select Commercial Banks	Bloomsbury India

6.	Tripathi Ravindra, Pandey A.K. and Yadav Upasana.	Rural Development in India: A New Perspective	SCM of Fruits and Vegetables in India: Strategies for Betterment	Excel India Publishers, New Delhi
7.	Tripathi Ravindra, Kumari Anjani and Pandey K.	Rural Development in India: A New Perspective	Promotion of Tribal Entrepreneurship in India: A Case Study with Reference to Jharkhand and Chhattisgarh	Excel India Publishers, New Delhi
8.	Tripathi Ravindra, Srivastava L. and Yadav G.	Dimensions of Public Policy: Changing Scenario	An Assessment of Public Polices of Planning Commission for Rural Development (With Reference to 9 th 10 th and 11 th Five Year Plans)	Excel India Publishers, New Delhi
9.	Tripathi Ravindra, with Agarwal S	Dimensions of Public Policy: Changing Scenario	Rural Development Through Agriprenurship: A Study of Farmers in Uttar Pradesh	Excel India Publishers, New Delhi
10.	Ambalika Sinha	Dimensions of public policy Changing Scenario.	Government policies and their impact on Rural Development.	Excel India Publishers, New Delhi ISBN:978-93-83842-22-3, 2014.
11.	Ambalika Sinha	Rural Development in India: A New perspective	Role of Quality Education for sustainable Development of rural India	Excel India Publishers, New Delhi
12.	Ambalika Sinha	Dimensions of public policy Changing Scenario.ISBN:978-93-83842-22-32014	Government Policy on Innovation as a catalyst for rural development in India with special reference to National Innovation Foundation.,pg.304-312, 2014	Excel India Publishers, New Delhi

Publication National Conferences

- [1] A. Sinha, "Government policies and their impact on Rural Development," National Conference on Dimensions of Public Policies, MNNIT Allahabad, 2014.
- [2] A. Sinha, "Role of Quality Education for sustainable Development of rural India," National Conference on Dimensions of Public Policies, MNNIT Allahabad, 2014.
- [3] A. Sinha, "Government Policy on Innovation as a catalyst for rural development in India with special reference to national Innovation Foundation," National Conference on Dimensions of Public Policies, MNNIT Allahabad, 2014.

Reviewer in International Journals

Sl. No.	Faculty Name	Journal Name
1.	Dr. Ravindra Tripathi	Computational Economics, Springer Journal of cleaner production, Elsevier

**Conferences/Workshops/Short-Term Courses/
Training Programme/ Seminar Attended**

1. J.Sinha, Presented a paper on “Canada and Literature: Denationalization in Margaret Atwood’s Fiction” in the International Seminar, January 5-7, 2015, English Department, Allahabad University.
2. J. Sinha, Presented a paper on “Importance of Soft Skills in Present Scenario” in the National Seminar on Theory & Teaching of English held from Jan. 20-21, 2015, English Department, Allahabad University.

10.11 DEPARTMENT OF MATHEMATICS

Vision

Achieving excellence in Teaching–Learning and Research among National and international academic

and research organizations to nurture mathematics for engineering and as an independent science.

Mission

Mathematics department will achieve its vision by offering well–balanced curriculum to acquire professional competencies and transferable skills bringing innovations in Teaching-Learning process through effective content delivery and appropriate assessment methods catalyzing the research activities of both faculty members and students through research projects etc.

Course Offered by the Department

M.Sc. in Mathematics and Scientific Computing

Course in which students were admitted in 2014-2015

M.Sc. in Mathematics and Scientific Computing

List of Ph.D. Thesis completed

Sl. No	Name of students	Thesis Title	Supervisor(s)
1	Sumit K. Upadhyay	A study on unimodular rows and its topological analogue	Dr Shiv Datt Kumar
2	Mamta Balodi	Classification of finite dim pointed Majid algebras	Dr Shiv Datt Kumar
3	Akanksha Srivastava	Numerical Simulation of Singularly Perturbed Non-linear Elliptic Partial Differential Equations Using Finite Element Method.	Dr. Manoj Kumar
4	Sapna Pandit	Haar wavelet analysis and numerical simulation of parabolic and hyperbolic partial differential equations.	Dr. Manoj Kumar

Publication in International Journals

- [1] M. Balodi, H. L. Huang and S. D. Kumar, “Diamond lemma for the group graded quasi-algebras,” Proceedings Mathematical Sciences (Indian Academy of Sciences) (Springer Publication), SCI Journal, 2015 (in press). (I.F.= NA)
- [2] P. Singh and S. D. Kumar, “Reductions in Rees algebra of modules, Algebras and Representation Theory,” Springer Publication, vol. 17, no. 2, 2014, (I.F.= NA).
- [3] M. Balodi H. L. Huang, and S. D. Kumar, “Finite Majid algebras over the Klein group, Communications in Algebra,” Taylor and Francis Publication vol. 42, no. 11, pp. 4962-4983, 2014, (I.F.= NA).
- [4] J. Singh and S. D. Kumar, “On the Involutivity of the Characteristic Variety, Communications in Algebra,” Taylor and Francis Publication, vol. 42, no. 8, 2014, pp. 3607-3618, (I.F.= NA).
- [5] S. D. Kumar, R. Sridharan and R. K. Mishra, “Completion of unimodular row to an invertible matrix,” *Mitteilungen Klosterneuburg Journal*, vol. 64, no.3, pp. 206-211, 2014, (I.F.= NA).
- [6] M. Kumar and S. Tiwari, “An Initial Value Technique to Solve Two-Point Non-Linear Singularly Perturbed Boundary Value Problems,” *International Journal of Applied and Computational Mathematics*, vol.14, no. 2, pp. 150-157. 2015, (I.F.= NA).
- [7] A. K. Singh and M. Kumar, “Multi-peak Solutions of Non-linear Elliptic Singularly Perturbed Reaction-Diffusion Equations using Finite Element Simulation,” Journal of the Taiwan Institute of Chemical Engineers, vol. 50, pp. 56–68. 2015, (I.F.= 0.452).
- [8] M. Kumar and N. Yadav, “Numerical Solution of Bratu's Problem Using Multilayer Perceptron Neural Network Method,” National Academy Science Letters, DOI 10.1007/s40009-015-0359-3 (in press), (I.F.= 0.24).

- [9] A. Srivastava, M. Kumar and Todor Dimitrov Todorov, "A Ninth-Order Convergent Method for Solving the Steady State Reaction-Diffusion Model," *Computational Mathematics and Modeling*, vol. 26, no. 4, 2015, (I.F.= NA).
- [10] M. Kumar and S. Pandit, "An efficient algorithm based on Haar wavelets for numerical simulation of Fokker-Planck equations with constants and variable coefficients," *International Journal of Numerical Methods for Heat & Fluid Flow*, vol. 25, no. 1, pp. 41-56, 2015, (I.F.= 1.399).
- [11] S. Pandit, M. Kumar and S. Tiwari, "Numerical Simulation of Second-Order Hyperbolic Telegraph Type Equations with Variable Coefficients," *Computer Physics Communications*, vol. 187, pp. 83–90, 2015, (I.F.= 3.112).
- [12] P. Joshi and M. Kumar, "Mathematical Modelling and Computer Simulation of Temperature Distribution in Inhomogeneous Composite Systems with Imperfect Interface," *Engineering Structures and Technologies*, (Taylor & Francis Journal), vol. 6, no. 2, pp. 77-85, 2014, (I.F. = NA).
- [13] N. Tiwari and S. Padhye, "Provable Secure ID-Based Designated Verifier Proxy Signature Without Pairings," *Journal of Discrete Mathematical Sciences & Cryptography* (Taru Publication & Taylor and Francis), vol. 17, no.3, pp. 199-212, 2014, (I.F.= 0.12).
- [14] N. Tiwari, S. Padhye and Debiao He, "Provably Secure Proxy Multi-Signature Scheme Based On ECC," *Information Technology and Control*, vol.43, no. 2, pp. 198-203, 2014, (I.F. 0.813).
- [15] S. Padhye and N. Tiwari, "ECDLP based Certificate-less Proxy Signature scheme with Message Recovery," *Transactions on Emerging Telecommunications Technologies*, vol. 26, pp. 346-354, 2015, (I.F.= 0.602).
- [16] G. Nath and J. P. Vishwakarma, "Similarity solutions for the flow behind the shock wave in a non-ideal gas with heat conduction and radiation heat flux in magnetogasdynamics," *Commun. Nonlinear Sci. Numer. Simulat*, vol. 19, 1347-1365, 2014, (I.F.= 2.886).
- [17] G. Nath, "Self-similar solution for unsteady flow behind an exponential shock in an axisymmetric rotating dusty gas," *Shock Waves*, vol. 24, pp. 415-428, 2014, (I.F.= 0.885).
- [18] G. Nath, "Unsteady isothermal flow behind a magnetogasdynamic shock wave in a self-gravitating gas with exponentially varying density," *J. Theoretical and Applied Physics*, 8:831, 2014, (I.F. = NA).
- [19] G. Nath, "Cylindrical shock wave in a rotational axisymmetric non-ideal dusty gas with increasing energy in the presence of conductive and radiative heat fluxes," *Ain Shams Eng. J. ,* vol. 6, 2015, (I.F. = NA).
- [20] S. Pandit, M. Kumar, S. Tiwari, "Numerical simulation of second-order hyperbolic telegraph type equations with variable coefficients," *Computer Physics Communications*, vol. 187, pp. 83–90, 2015, (I.F.= 3.112).
- [21] P. Singh, "Weakly fuzzy efficient conditions for multiobjective fractional programming problems," *Journal of Intelligent and Fuzzy Systems*, vol. 26, pp.1383-1392, 2014, (I.F.=1.812).
- [22] P. Singh, S. D. Kumar, R. K. Singh "Fuzzy efficient and Pareto –optimal solution for multi-objective linear fractional programming problems," *International Journal of Mathematics in Operational Research*, vol. 6, no. 3, pp. 357-376, 2014, (I.F.=0.00)
- [23] L. Shree, P. Singh, D. C. Sharma, P. Jharotia "Mathematical modeling and performance analysis of machine repairable system with hot spares," *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, vol. 85, no.1, pp. 127- 135, 2015, (I.F.= 0.242).

Publication in National Journal

- [1] P. Singh, S. D. Kumar, "Existence of reduction of ideals over semi local rings," *The Mathematics Student*, Indian Mathematical Society publication, vol. 84, no. 1-2, 2015, (I.F. = NA)

Publication in Conferences

- [1] S. D. Kumar, and J. Singh, "Coisotropic property of characteristic variety over Weyl algebras and relation with Symplectic geometry & Quantum Physics," *International Conference, International Congress of Mathematicians at Coex, Seoul, South Korea*, 2014.
- [2] S. Thota and S. D. Kumar. "A new method for general solution of system of higher- order linear differential equations," *International Conference on Inter Disciplinary Research in Engineering and Technology Delhi*, pp. 240-243, 2015.
- [3] S. D. Kumar, and P. Singh, "Reduction of ideals over semilocal Noetherian rings," *National conference of Ramanujan Mathematical Society IISER Mohali*, 2015.
- [4] B. Vasu, "Transient Boundary Layer Laminar Free Convective Flow of a Nanofluid over a

Vertical Cone/ Plate,” International Conference on Applications of Fluid Dynamics, S. V. University, Tirupati, 2014.

[5] S. D. Kumar, “Coisotropic property of characteristic variety over Weyl algebras and

relation with Symplectic geometry & Quantum Physics”, International Conference International Congress of Mathematicians, at Seoul, South Korea, August 13-21, 2014.

Reviewer in International Journals

Sl. No.	Faculty Name	Journal Name
1.	Dr. Manoj Kumar	Journal of Computational and Applied Mathematics International Journal of Computer Mathematics Computers and Mathematics with Applications Applied Numerical Mathematics Journal of Applied Mathematics and Computing Journal of Indonesian Mathematical Society Applied Mathematics and Computation Numerical Algorithms Journal of Engineering Mechanics Mathematical Modeling and Analysis Communications in Nonlinear Science and Numerical Simulations
2.	Dr. Sahadeo Padhye	International Journal of Network Security International Journal of Communication System, Willey Telecommunication System, Springer International Journal of Computer Mathematics, Elsevier
3.	Dr. Gorakh Nath	Astrophysics and Space Science, SCI, J., Springer, Advances in Space Research, SCI, J., Elsevier Science Journal of Applied Fluid Mechanics, Ain Shams Engineering Journal, Elsevier Science
4.	Dr. Surabhi Tiwari	Mathematical Reviews (American Mathematical Society). Zentralblatt Math (Springer Science and Business Media). Transactions on Rough Sets (Springer). Mathematics in Computer Science (Springer). Journal of Applied Mathematics and Computing (Springer). Quaestiones Mathematicae (Taylor and Francis) American Journal of Computational and Applied Mathematics (Scientific & Academic Publishing, USA).
5.	Dr. B. Vasu	International Journal Heat and Mass Transfer (Elsevier). International Journal of Fluid Mechanics Research (Begell House) Proceedings of the National Academy of Sciences, India Section A: Physical Sciences(Springer) International Journal of Numerical Methods for Heat and Fluid Flow (Emerald)

Book(s)/Book Chapter(s) Authored

Sl. No	Faculty Name (Author/ Co-author)	Book	Book Chapter	Publisher
1.	Dr. Manoj Kumar	Introduction to Neural Network Methods for Differential Equations	All Chapter	Springer
2.	Buddakkagari Vasu, Rama Subba Reddy Gorla	‘Nanoscale Flow: Advances, Modeling, and Applications’	Two Phase Laminar Mixed Convection Al ₂ O ₃ -Water Nanofluid in Elliptic Duct’	CRC Press, Taylor and Francis Group, ISBN: 9781482233803,

Conference /Workshop/Short Term Course Organized by the Department

Sl. No.	Conference	Chair/Co-Chair/Coordinator	Month and Year
1	National Conference Application of Mathematics in Engineering and Sciences (AMES-2014)	Dr. S N Pandey Dr. Pitam Singh Dr. Pramod Kumar Yadav	November 29-30, 2014
2	National Instructional Workshop on Cryptology (NIWC' 14)	Prof. Shiv Datt Kumar Dr. Sahadeo Padhye Dr. Pitam Singh	June 05-09, 2014

Invited lectures delivered

- (i) S. D. Kumar gave invited talk on “Coisotropic property of characteristic variety and its relation with Heisenberg uncertainty principle in the national conference on Commutative Algebra and Algebraic Geometry at IIT, Guwahati during February 5 - 9, 2015.
- (ii) Dr. S. Padhye delivered a talk in the “National Instructional Workshop on Cryptology (NIWC'14)”, June 05-09, 2014. Organized by Department of Mathematics, Motilal Nehru National Institute of Technology under the aegis of Cryptology Research Society of India (CRSI). (Title of the talk “Symmetric Key Block Cipher”)
- (iii) Dr. S. Padhye delivered a talk in the “National Workshop on Graph Theory and its Application” November 07-08, 2014 at KCB Govt. P.G. College, Bhilai Sector-3, Chhattisgarh. . (Title of the talk-“Application of Graph Theory in Cryptography”).

Invited lecture Organized

1. Prof. M. K. Kadalbajoo, Department of Mathematics and Statistics, Indian Institute of Technology Kanpur delivered expert lecture on March 19, 2015.

Conference / Workshops/Short- Term Course /Training Programme attended

- [1] Shiv Datt Kumar, participated in international conference on Infinite Dimensional Lie Theory

and its Applications at Harish-Chandra Research Institute, Jhansi Allahabad during December 15-20, 2014.

- [2] Shiv Datt Kumar, participated in a MHRD sponsored workshop on National Mission on Education of Information and Communication Technology (NMEICT) awareness during August 29-30, 2014 at MNNIT Allahabad organized by Computer Science & Engineering Department.
- [3] Dr. Sahadeo Padhye attended two days' workshop on “National Mission on Education through Information and Communication Technology,” August 29-30, 2014 MNNIT Allahabad.
- [4] Dr. Sahadeo Padhye attended International Conference on Cryptology, INDOCRYPT'14: 2014, Scientific Analysis Group (SAG) DRDO, New Delhi Dec. 14-17, 2014, India.
- [5] Dr. Gorakh Nath, Participated in International Congress of Mathematicians (ICM 2014), during 13-21 August 2014, Coex, Seoul, South Korea.
- [6] Dr. Gorakh Nath Participated in International in Conference ICMMS, Dec 8-10, 2014, IIT Madras.
- [7] Dr. Gorakh Nath Participated in National Conference 102nd Indian Science Congress, Jan 3-7, 2015, Mumbai University.
- [8] Dr. Surabhi Participated “Two-Day Workshop on Mathematics-Celebrating National Mathematics Day”, The National Academy of Sciences, Allahabad, Dec 22-23, 2014

Research Project Ongoing

Sl. No	Principal Investigator /Co investigator (s)	Project Title	Funding Agency	Amount (INR in Lacs)	Duration (Status)
1.	Prof Shiv Datt Kumar	Graded modules over rings graded by finitely generated Abelian groups.	Department of Science and Technology, Govt. of India	10.04	December, 2011– December, 2014

2.	Dr. Manoj Kumar	Numerical Simulation of Elliptic Interface Problems Arising in Steady State Heat Conduction in Composite Systems.	Council of Scientific and Industrial Research (CSIR)	January 2015 3 Years
3.	Dr. Gorakh Nath	Modelling of Shock Waves in Gases and in Mixture of a Gas and Dust Particles With or Without Gravitational Effects	UGC	12.25 Dec. 2014- April 2015

Other Relevant Information

Member of Editorial Board of the Journals

- (i) Prof Shiv Datt Kumar , International Journal of Engineering and Applied Sciences since January 2013.
- (ii) Prof. Shiv Datt Kumar, American Journal of Applied Mathematics and Statistics, since 2013 (SCIEP).
- (iii) Dr Gorakh Nath, Assistant Editorial Secretary of Journal "National Academy of Mathematics", India, Since 2014, Published by Department of Mathematics, DDU Gorakhpur University.
- (iv) Dr. B. Vasu has visited as Visiting Researcher at Indian Institute of Technology Kanpur, India during Dec 08, 2014 to Dec 26, 2014
- (v) Dr. B. Vasu has visited as Visiting Researcher at Cleveland State University, Cleveland, USA during May 26, 2014 to June 25, 2014

10.12 DEPARTMENT OF MECHANICAL ENGINEERING

Vision

To be a centre of excellence in Mechanical Engineering education and research for the benefit of global society and humanity.

Mission

- (i) To educate and develop human resources for industry, academia and research and development.
- (ii) To push the frontiers of search skills in graduates and develop new paradigms in research for PG and Ph. D. programs.
- (iii) To develop products, processes and technology for the benefit of the society in collaboration with industry and commerce.
- (iv) To enhance the efforts for preparing job ready engineers and competent entrepreneurs.

List of Labs

- (i) Machine Tools and Advanced Machining Laboratory
- (ii) Materials Characterization Laboratory

- (iii) Machine Elements Laboratory
- (iv) Computer Aided Design Laboratory
- (v) Computer Aided Manufacturing Laboratory
- (vi) Instrumentation Laboratory
- (vii) Automobile Engineering Laboratory
- (viii) Internal Combustion Engine Laboratory
- (ix) Heat and Mass Transfer & Solar Energy Laboratory
- (x) Mechatronics and Virtual Instrumentation Laboratory
- (xi) Product Design and Manufacturing Laboratory
- (xii) Computational and Industrial Engineering Lab
- (xiii) Refrigeration and Air Conditioning Laboratory
- (xiv) Steam Engine Laboratory
- (xv) Metrology Laboratory

Courses Offered by the Department

U.G. Programmes

- (i) B.Tech. (Mechanical Engineering)
- (ii) B.Tech. (Production and Industrial Engineering)

P.G. Programmes

- (i) M.Tech. (Design Engineering)
- (ii) M.Tech. (Production Engineering)
- (iii) M.Tech. (Computer Aided Design and Manufacturing)
- (iv) M.Tech. (Product Design and Development)
- (v) M.Tech. (Thermal Engineering)

Ph.D. programme

Courses in which students were admitted in 2014-2015

U.G. Programmes

- (i) B.Tech. (Mechanical Engineering)
- (ii) B.Tech. (Production and Industrial Engineering)

P.G. Programmes

- (i) M.Tech. (Design Engineering)
- (ii) M.Tech. (Production Engineering)
- (iii) M.Tech. (Computer Aided Design and Manufacturing)
- (iv) M.Tech. (Product Design and Development)
- (v) M.Tech. (Thermal Engineering)

Ph.D. programmes

List of Ph. D. Thesis Completed

Sl. No.	Name of Student (Reg. No.)	Thesis Title	Supervisor(s)
1	Basanta Kumar Bhuyan (2010RME05)	Traveling Wire Electro-Chemical Spark Machining Process: Development, Modeling And Optimization	Prof. Vinod Yadava
2	Rajesh Kumar Porwal (2007RME04)	Modelling and Optimization of Micro Electrical Discharge Machining of Super Alloys.	Prof. Vinod Yadava
3	Ravinder Nath Vadav (2009RME54)	Some Investigation on Slotted – Electrical Discharge Grinding go Hybrid Metal Matrix Composites	Prof. Vinod Yadava
4	Pankaj Kumar Srivastava (2009RME55)	A Study on Electrical Discharge Abrasive Grinding of Advanced Materials using Indigenous Experimental Setup.	Dr. A. K. Dubey
5	Kamal Sharma (2008RME04)	Mechanical Properties of Carbon Fiber / Functionalized Multi-walled Carbon Nanotubes / Epoxy Multiphase Cposites: Modeling, Simulation and Characterization.	Dr. Mukul Shukla
6	T. Ramesh (2008RME12)	Some studies on life cycle energy analysis of residential buildings.	Prof. Ravi Prakash Prof. K.K. Shukla (AMD)
7	Parul Gupta (2008RME10)	Studies on Various Aspects of Customer Satisfaction Evaluation of Indian Service Industries	Prof. R.K.Srivastava
8	Vivek Srivastava (2010RME55)	Dynamic Mechanical Characteristics Of Expanded Polypropylene Under Multiple Loading.	Dr. Rajeev Srivastava
9	Jitendra Kumar (2007RME06)	A Systematic Approach For Modeling And Analysis Of Supply Chain Network.	Prof. Nirjhar Roy
10	Nagendra Kumar Mishra (2008RME07)	Studies On Oxidation, Hot Corrosion And Slurry Erosion Wear of LVOF And Detonation Gun Sprayed Coatings.	Dr. S. B. Mishra
11	Rupesh Goyal (2009RME52)	Experimental Modeling and Optimization of Hole Characteristics in Laser Trepan Drilling of Advanced Difficult-To-Cut Materials.	Dr. A. K. Dubey
12	Vijay Kumar Dwivedi (2008RME16)	Analysis of Hybrid (Hydrostatic / Hydrodynamic) Journal Bearing.	Prof. K. N. Pandey

Publication in International Journals

- [1] M. Gupta, A. K. Choudhary, S. Alam, “Effect of trust, satisfaction and other relationship dimensions on Supplier Relationship Management,” *Review of Integrative Business and Economics Research*, vol. 3, no. 2, pp. 17-30, 2014, (I.F.= NA).
- [2] N. Asthana, M. Gupta, “Supplier Selection Using Artificial Neural Network and Genetic Algorithm,” *International Journal of Indian Culture and Business Management*, 2015, (I.F.= NA).
- [3] R. Narain, M. Gupta, “A fuzzy ANP based approach in the selection of the best E-Business strategy and to assess the impact of E-Procurement on organizational performance,” *Information Technology and Management*, DOI: 10.1007/s10799-014-0208-y, 2014, (I.F.= 0.708).
- [4] A. K. Chaudhary, A. K. Pandey and A. K. Dubey, “Computer aided Taguchi Fuzzy Multi-objective Optimization of Laser cutting,” *Journal of Intelligent and Fuzzy Systems*, vol 26, pp. 801-810, 2014, (I.F. 1.182).
- [5] P. K. Shrivastava and A. K. Dubey, “EDM based Hybrid Machining Processes – A Review,” *Proceedings IMechE Part B: Journal of Engineering Manufacture*, vol. 228, pp. 799-825, 2014, (I.F.= 0.661).
- [6] P. K. Shrivastava, A. K. Dubey, “Comparison of Artificial Neural Model and Response Surface Model during EDAG of Metal Matrix Composite,” *International Journal of Engineering Research*, vol. 3, no. 3, pp. 182-187, 2014, (I.F.= 0.421).

- [7] S. Subramonian, K. R. Milkey, A. R. Samsudin, A. K. Dubey, P. Kidd, "Comparison between Taguchi Method and Response Surface Methodology (RSM) in Modelling CO₂ Laser Machining," *Jordan Journal of Mechanical & Industrial Engineering*, vol. 8, no. 1, pp. 35-42, 2014, (I.F.= 6.025).
- [8] R. Goyal and A. K. Dubey, "Hybrid approach for modeling and optimization of hole taper during laser trepan drilling of Ti-6Al-4V alloy sheet," *Procedia Materials Science*, vol. 5, pp. 1781-1790, 2014, (I.F.= 2.214).
- [9] P. Sharma, A. K. Dubey, A. K. Pandey, "Numerical Study of Temperature and Stress Fields in Laser Cutting of Aluminium alloy Sheet," *Procedia Materials Science*, vol. 5, pp. 1887-1896, 2014, (I.F.= 2.214).
- [10] P. Sharma, A. K. Dubey and A. K. Pandey, "Artificial Intelligence based Modeling and Optimization of Heat Affected Zone in Nd: YAG laser cutting of Duralumin sheet," *Procedia Materials Science*, vol. 27, no. 3, pp. 1545-1555, 2014, (I.F.= 2.214).
- [11] S. A. Ali and S. Saraswati, "Cycle-by-Cycle Estimation of Cylinder Pressure and indicated torque waveform using crankshaft speed fluctuations," *Transactions of the institute of measurement and control* (DOI: 10.1177/0142331214549093), pp. 1-13, 2014, (I.F.= 0.736).
- [12] S. A. Ali, S. Saraswati, "Cycle by Cycle estimation of IMEP and Peak Pressure using Crankshaft Speed measurements," *Journal of Intelligent & Fuzzy Systems*, vol. 28, pp. 2761-2770, 2015, (I.F. 1.812).
- [13] S. A. Ali, "Reconstruction of Cylinder Pressure using Crankshaft Speed fluctuations," *IEEE International Conference on Industrial Instrumentation and Control*, vol. 1, pp. 113-114, 2015, (I.F.= NA).
- [14] V. Verma, D. K. Shukla, V. Kumar, "Estimation of fatigue life of epoxy-alumina polymer nanocomposites," *Pro. Mat. Sci.*, vol. 5, pp. 669-678, 2014, (I.F.= 2.214).
- [15] V. Hiremath, M. Singh, D. K. Shukla, "Effect of Post Curing Temperature on Viscoelastic and Flexural Properties of Epoxy/Alumina Polymer Nanocomposites," *Pro. Engg.* vol. 97, pp. 479-487, 2014, (I.F.= 0.547).
- [16] T. Ramesh, R. Prakash and K. K. Shukla, "Life Cycle Energy of Low Rise Residential Buildings in Indian Context," *Open Journal of Energy Efficiency*, vol. 3, pp. 108-118, 2014, (I.F. 0.9).
- [17] D. Choudhary, J. Madaan, R. Narain, "An Integrated Decision Model for Selection of Third Party Recovery Facilitator (3PRF) for Product Recovery Operations," *Journal of Operations and Supply Chain Management*, vol. 7, no. 2, pp. 37-58, 2014, (I.F. = NA).
- [18] M. Gupta and R. Narain, "A fuzzy ANP based approach in the selection of the best E-Business strategy and to assess the impact of E-Procurement on organizational performance," *International Journal of Information Technology and Management*, DOI 10.1007/s10799-014-0208-y, Springer, 2014, (I.F.= 1.406).
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- [20] S. Avikal, R. Jain, H. Yadav and P. K. Mishra, "A New Heuristic for Disassembly Line Balancing Problems with AND/OR Precedence Relations," *Advances in Intelligent Systems and Computing, Springer publications*, vol. 236, pp. 519-525, 2014, (I.F.= NA).
- [21] S. Avikal, P. K. Mishra, R. Jain and H. C. Yadav, "A Kano Model, AHP and M-TOPSIS method based technique for disassembly line balancing under Fuzzy environment," *Applied Soft Computing, Springer publications*, vol. 25, pp. 519-529, 2014, (I.F.= 2.729).
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- Advanced Research in science and Engineering*, vol. 3, pp. 1-9, 2014, (I.F.= 2.080).
- [26] T. Alam, M. K. Gupta and R. K. Srivastava, "Thermal characterization and Fracture Toughness of sisal fibre reinforced polymer composite," *International Journal of Advanced Research in science and Engineering*, vol. 3, pp. 12-17, 2014, (I.F.= 2.080).
- [27] A. D. Bhatt, A. Goel, U. Gupta and Awasthi, Stuti, "Reconstruction of Branched Surfaces: Experiments with Disjoint B-spline Surface," *Journal of CAD & A as well as CAD & A conference Hong Kong*, 2014, (I.F.= 2.825).
- [28] A. Sanat and A. D. Bhatt, "UML Model for Standardization of Heterogeneous Material Representation for Additive Manufacturing," *JUET Research Journal of Science and Technology*, vol. , no.1, pp. 93-109, 2014, (I.F.= NA).
- [29] V. K. Srivastav, A. Kumar, A. R. Paul , A. D. Bhatt and A. Jain, "Airflow and Aerosol Drug-Delivery in a CT-scan based Human Respiratory Tract with Tumor using CFD," *25th International Congress on Condition, Journal of Applied Fluid Mechanics*, vol. 7, pp. 2, 2014, (I.F.= 0.746).
- [30] T. Ramesh, R. Prakash, K. K. Shukla; "Life cycle energy of low rise residential buildings in Indian context," *International Journal: Open Journal of Energy Efficiency* vol. 3, pp. 108-118, 2014, (I.F.= 0.9).
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- [43] V. Srivastava and R. Srivastava, "On the polymeric foam: Modeling and properties," *Journal of Material Science*, vol. 49, no. 7, pp. 2681-2692, (I.F.= 2.305).
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- [47] E. T. Akinlabi, M. Shukla, S. A. Akinlabi, S. B. Kanyanga, C. M. Chizyuka, "Forming behavior of Steel Plates after Mechanical and Laser Beam Forming," *Lasers in Engineering*, ISSN: 0898-1507, 2014, (I.F. 0.469).
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- [2] S. A. Ali, S. Saraswati, "Identification of Flame Development and Rapid Burning Angle for SI Engine," 3rd IEEE student Conference on Engineering and system (SCES-2014), Allahabad, India, 2014.
- [3] A. S. Reddy, S. Chand and P. K. Agrawal, "Genetic algorithm based optimal design of fuzzy logic controller for active magnetic bearings," Power, Control and Embedded Systems (ICPCES-2014), International Conference, 2014.
- [4] S. A. M. Hasan, D. K. Shukla and V. Verma, "Effect of Morphology of particles on tensile and fracture properties of Epoxy/Alumina Polymer Nanocomposites," 1st International Conference on Mechanical Engineering: Emerging Trends for sustainability, Bhopal, India., 2014.
- [5] V. Hiremath and D. K. Shukla, "Evaluation of Viscoelastic Properties of Epoxy/Alumina Polymer Nanocomposites," 2nd International Conference on Advanced Functional Materials, Thiruvananthapuram, Kerala, India, 2014.
- [6] V. Hiremath and D. K. Shukla, "Viscoelastic and Flexural Properties of Epoxy/Alumina Polymer Nanocomposites," Advances in Materials and Processing Technologies, Dubai, UAE, Nov 16-20, 2014.
- [7] V. Hiremath, M. Singh and D. K. Shukla, "Effect of post curing temperature on tensile properties of epoxy/alumina polymer nanocomposites," International Conference on Multifunctional Materials, Structures and Applications, Allahabad, India, 2014.
- [8] S. K. Mishra and D. K. Shukla, "Hardness and Transparency of Epoxy-Alumina Polymer Nanocomposites," International Conference on Multifunctional Materials, Structures and Applications, Allahabad, India, 2014.
- [9] S. K. Gupta, D. K. Shukla and A. Agrawal, "Finite Element Modeling of Polymer Nanocomposites as an Adhesive," International Conference on Advances in Materials, Manufacturing and Applications, Tiruchirappalli, India, 2015.
- [10] P. Singh, M. Sharma, S. Lal and R. Dev, "Comparative Performance Study of Conventional Air Collector and Photovoltaic-Thermal (PV-T) Air Collector", International Conference on "Energy Technology, Power Engineering & Environmental Sustainability," (ETPEES-2014), JNU, New Delhi, June 21- 22 2014.
- [11] P. Shandilya and A. Tiwari, "Artificial Neural Network Modelling and Optimization using Genetic Algorithm of Machining Process," 6th

Publication in National Journals

- [1] S. V. Sao, R. Narain, Inayatullah, "A Survey on Mass Customization in Engineering Organizations," *Journal of Basic and Applied Engineering Research*, vol. 1, no. 3, pp. 60-63, 2014, (I.F. = NA)

Publication in International Conferences

- [1] C. Tripathi, M. Gupta, "Customer prioritization for order preference using AHP and DEA approaches," International Conference on Advances in Management and Technology: Mapping Strengths with Opportunities (ICAMT-2015), 2015.

- International Conference on Computer and Automation Engineering, Melbourne, Australia, 2014.
- [12] P. Shandilya, "Neural Network Based Modeling for Average Cutting Speed in Wire-Electric Discharge Machining of SiCp/6061 Al MMC," International Conference on Advanced Computational Technologies and Creative Media (ICACTCM'2014), Pattaya, Thailand, 2014.
- [13] A. K. Mishra and P. Shandilya, "FEM Analysis on Residual Stresses induced in dry Turning: A Review," 5th International and Twenty Sixth All India Manufacturing Technology Design and Research Conference - 2014, Guwahati, India, 2014.
- [14] M. K. Gupta and R. K. Srivastava, "Tensile and flexural properties of sisal fibre reinforced epoxy composite: A comparison between unidirectional and mat form of fibres," ICAMME 2014, Surathkal. Procedia Materials science, 2014.
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- [16] M. K. Gupta, R. K. Srivastava. "Tensile and Flexural Properties of Short Banana Fibre Reinforced Epoxy Composite," Futuristic in Mechanical Engineering, Gorakhpur, India.
- [17] A. D. Bhatt, A. Goel, U. Gupta, S. Awasthi, "Design of Bifurcation using multiple knots," International Conference on Computer Aided Design and Application-2014, Hongkong, June 23-26, 2014.
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- [20] D. Kumar, K. N. Pandey, and D. K. Das, "Thermal barrier coating on Al-alloy 2024 for protection under isothermal and cyclic heating conditions," 6th Asian Thermal Spray Conference (ATSC-2014), Hyderabad, India and November 24-26, 2014.
- [21] V. Srivastava, R. Srivastava, and M. A. Khan, "Influence of Some Solid Element Types on the Performance of Expanded Polypropylene," International Conference on Mechanical Engineering: Emerging Trends for Sustainability, Bhopal, pp 160-167.
- [22] V. Srivastava, R. Srivastava, M. A. Khan, "Influence of sectional properties vis-a-vis material models to the energy absorption capacity of Expanded Polypropylene," International Conference on Emerging Materials and Applications, Roorkee, India April 5-6, 2014.
- [23] P. K. Shrivastava and A. K. Dubey, "Parametric analysis, modeling and optimization of surface roughness during EDAG using CBN abrasive," International Conference on Advances in Materials and Processing Technologies (AMPT 2014), Dubai, UAE, November 16-20, 2014.
- [24] A. Agrawal, A. K. Dubey, and P. K. Shrivastava, "Intelligent modeling and multi-objective optimization in powder mixed electric discharge diamond grinding of MMC," International Conference on Advances in Materials and Processing Technologies (AMPT 2014), Dubai, UAE, November 16-20, 2014.
- [25] M. K. Khurana, P. Khurana, "Microcontroller based Implementation of Electronic Stability Control and Adaptive," IEEE-ICATER-2014, Kanpur, India, August 1-2, 2014.
- [26] M. K. Khurana, P. Khurana, "Implementation of Electronic Stability Control and Adaptive Front Lighting System for Automobiles," IEEE-ICPCES-2014, Allahabad, India, December 26-28, 2014.
- [27] T. Bhardwaj, B. Nahak, and M. Shukla, "Hemispherical Deep Drawing Hydro-forming of Copper and Aluminium Sheet-Experimental Studies and Finite Element Simulation," International Conference on Multifunctional Material, Structures and Application (ICMMSA-2014), MNNIT-Allahabad, December 22-24, 2014.
- [28] B. Venu, V. R. Komma, and D. Srivastava, "A New Hybrid Approach to Recognize Machinable Features of Prismatic Parts from STEP AP 203 File," 5th International and 26th All India Manufacturing Technology Design & Research (AIMTDR) Conference, Guwahati, India, December 12-14, 2014.
- [29] D. Srivastava, B. Venu, V. R. Komma (2014), "STEP-Based Feature Recognition of Orthogonal Primitives of Prismatic Parts," 5th International and 26th All India Manufacturing Technology Design & Research (AIMTDR) Conference, Guwahati, India, December 12-14, 2014.

Publication in National Conferences

- [1] A. K. Sharma, A. Pandey, D. K. Shukla and K. N. Pandey, "Self-healing in epoxy/microcapsules composites: Effect on Fracture Toughness," National Workshop on Fatigue and Fracture of Engineering Materials and Structures, MNNIT Allahabad, India, 2014.
- [2] M. K. Gupta and B. Nahak, "Fabricated & Enhancement of properties of jute fiber reinforced polyloctic (PLA) Composite," 2nd National Conference on Challenge & Opportunities for Technology, Lucknow, India, 2014.
- [3] M. K. Gupta, B. Nahak, A. Kumar, T. Alam and R. K. Srivastava, "Tensile and Flexural testing of short Banana fiber reinforced epoxy Composite," National Conference on Challenge & Opportunities for Technology, Gorkhpur, India, 2014.
- [4] S. Priyadarshi, A. K. Dubey and P. K. Shrivastava, "Electrochemical Machining Assisted Machining Processes," National Conference on Research and Innovations in Mechanical Engineering (RIME-2014), Bhopal, 2014.
- [5] G. Norkey, A. K. Dubey and S. Agrawal, "Theoretical Investigations in Laser Cutting – A Review," National Conference on Research and Innovations in Mechanical Engineering (RIME-2014), Bhopal, India, 2014.

Reviewer in International Journals

Sl. No.	Faculty Name	Journal Name
1.	Dr. A. K. Dubey	Journal of Materials Processing Technology, International Journal of Advanced Manufacturing Technology Optics and Laser Technology International Journal of Precision Engineering and Manufacturing Optics and Lasers in Engineering Materials and Manufacturing Processes International Journal of Machining and Machinability of Materials Measurement Science Review Advances in Optical Technologies Advances in Engineering Software Journal of Mechanical Science and Technology Machining Science and Technology Journal of Intelligent and Fuzzy Systems Lasers in Engineering International Journal of Manufacturing Technology and Management Journal of Manufacturing Processes Advances in Manufacturing
2.	Dr. Rahul Dev	Solar Energy, Desalination, Desalination and Water Treatment, Applied Energy

Book(s)/Book Chapter(s) Authored

Sl. No.	Faculty Name (Author/Co-author)	Book	Publisher
1	J. C. Mohanta	"Introduction to Mobile Robots Navigation"	Lambert Academic Publishing (LAP) ISBN-10: 3659680648; ISBN-13: 978-3659680649.

Conference/Workshop/Short Term Course Organized by the Department

Sl. No.	Seminar/Conferences	Chair/Co-Chair/Coordinator	Duration
1.	Short Term Training Programme "Application of Soft Computing methods in Engineering (ASCME 2014)"	Dr. Manish Gupta	May 26, 2014 to May 30, 2014
2.	Short Term Training Programme "Structural Integrity"	Dr. D. K. Shukla Dr. K.N. Pandey	June 16, 2014 to June 20, 2014
3.	Workshop "Fatigue and Fracture of Engineering Materials and Structures"	Dr. D.K. Shukla	Dec. 17, 2014 to Dec. 18, 2014
4.	Workshop "Digital Prototyping with Autodesk Tools"	Dr. Samir Saraswati	Feb. 27-Mar 4, 2015

Invited Lectures Delivered

- (i) A lecture delivered by Dr. A. K. Dubey during July 01 – 05, 2014 on Advanced Beam Machining Processes in a Self Financed Short Term Course on “CAD/CAM and Advanced Machining” organized by Mechanical Engineering Department, MNNIT Allahabad.
- (ii) A keynote lecture delivered by Dr. A. K. Dubey during December 26, 2014 on “Laser Beam Machining – Process Capability and Applications” in National Conference on Innovation in Futuristic Materials & Manufacturing Techniques (IFMMT-2014) on, Manipal University Jaipur, India.

Invited Lectures Organized

- (i) A lecture delivered by Prof. Vakil Singh, IIT-BHU, Varanasi on “Effect of surface modifications on Fatigue” on June 16, 2014.
- (ii) A lecture delivered by Er. Saurabh Kumar, HAL Lucknow on “Non Destructive evaluation and quality assurance” on June 19, 2014.
- (iii) A lecture delivered by Dr. Vikas Kumar, Scientist H/Associate Director, DMRL (DRDO) Hyderabad on “Life Prediction and Structural Integrity of Safety Critical Components in Defence Applications” on December 17, 2014.
- (iv) A lecture delivered by Prof. (Smt.) N. C. Santhi Srinivas, Department of Metallurgical Engineering, IIT BHU Varanasi on “Low Cycle Fatigue Behavior of Advanced Structural Materials” on December 17, 2014.
- (v) A lecture delivered by Dr. J. K. Sahu, Scientist, CSIR National Metallurgical Laboratory, Jamshedpur (Jharkhand) on “Fatigue behavior of metallic materials and alloys: Microstructural/ substructural changes during cyclic loading” December 17, 2014.
- (vi) A lecture delivered by Dr. S.B.Yadaw, Scientist, DRDO Defence Materials and Store Research and Development Establishment (DMSRDE), Kanpur “Fracture Mechanics and Experiments” on December 18, 2014.
- (vii) A lecture delivered by Prof. B. K. Mishra, Department of Mechanical and Industrial

Engineering, IIT Roorkee on “Fracture in Composite Materials” on December 18, 2014.

- (viii) A lecture delivered by Prof. P. Venkitanarayanan Department of Mechanical Engineering, IIT Kanpur on “Experimental Techniques in Fracture Mechanics” on December 18, 2014.
- (ix) A lecture delivered by Prof. P. Venkitanarayanan Department of Mechanical Engineering, IIT Kanpur on “Dynamic Fracture” on December 18, 2014.

Coordinator/Co-coordinator in Workshops/Short-Term Courses/Training Programme

- (i) Dr. Manish Gupta as coordinator organized short term course “Application of Soft Computing methods in Engineering (ASCME 2014)” from May 26, 2014 to May 30, 2014.
- (iii) Dr. D. K. Shukla and Dr. K.N. Pandey organized a short term training programme “Structural Integrity” from June 16, 2014 to June 20, 2014.
- (iv) Dr. D. K. Shukla organized a workshop on “Fatigue and Fracture of Engineering Materials and Structures” from December 17, 2014 to December 18, 2014.
- (v) Dr. S. Saraswati organized a workshop on “Digital Prototyping with Autodesk Tools” from February, 27, 2015 to March 04, 2015.

Conferences / Workshops / Short-Term Courses/ Training Programme Attended

- (i) Dr. J. C. Mohanta has also attended a Short Term Course on “Application of Soft Computing Methods in Engineering (ASCME-2014)” at MNNIT Allahabad during May 26-30, 2014.
- (ii) Dr. Pragya Shandilya attended workshop on “Some Tools of Materials Modelling” at IIT Mumbai.
- (iii) Dr. Pragya Shandilya has also attended a short term course on “Micro Machining and its Application” at IIT Kanpur during March 31 - April 05, 2014

Research Projects Ongoing/Completed

Sl. No.	Principal Investigator/Co investigator(s)	Project Title	Funding Agency	Amount (INR in Lacs)	Duration (Status)
1.	Prof. Vinod Yadava	Electro-Discharge Diamond Grinding: Development and Optimization	Aeronautics R & D Board, New Delhi	27.18	July 18, 2011 to July 17, 2014 Completed

2.	Dr. A. K. Dubey	Experimental and Numerical Study of Laser Cutting of Aluminium alloy Sheet	CSIR, New Delhi (India)	10.50	2011-2014 Completed
3.	Prof. Vinod Yadava	Cylindrical Electrolytic Magnetic Abrasive Machining (C-EMAM): Development, Modeling and Optimization	Council of Science and Industrial Research (CSIR), New Delhi	18.38	January, 2014 to Dec, 2016 Ongoing
4.	Dr. A. K. Dubey	Experimental study of Laser Trepan Drilling of Advanced Materials.	Aeronautics R & D Board, New Delhi	29.55	2014-2017 Ongoing

10.13 DEPARTMENT OF PHYSICS

Vision

- (i) To be nationally recognized as a model of an effective and successful Physics programme.
- (ii) To have a reputation for our advanced and successful research in emerging areas of Physics
- (iii) To have the reputation for the success of our research students and engineering graduates

Mission

To provide Physics education to engineering graduates as per need of future engineering and technological education in the country.

List of Labs

- (i) Under Graduate Physics Lab
- (ii) Research Lab I
- (iii) Research Lab II

Courses Offered by the Department

- (i) Physics I (PH 1101)
- (ii) Physics II (PH1202)
- (iii) Physics Lab (PH1151)
- (iv) Physics Lab (PH1251)

List of Ph. D. Thesis Complete

Sl. No.	Name of Student (Reg. No.)	Thesis Title	Supervisor
1	Rajneesh Kumar Mishra (2009RPH53)	Synthesis and characterization of (Zn, In, Cu, Cr) metal-doped SnO ₂ nanoparticles for structural, optical and gas sensing studies.	Prof. P.P. Sahay
2	Pramod Nagaragadde	Preparation and characterization of metal ion doped IN2O3 thin films for optical and gas-sensing applications.	Dr. S. N. Pandey
3	Mohan Chand Mathpal (2010RPH52)	Investigations of structural and optical properties of plasmonic metamaterials and titanium dioxide nanostructures	Dr. Arvind Agarwal Dr. S. N. Pandey
4	Anand Kumar Tripathi (2009RPH57)	Investigations of polymorphic transformation, band structure and photoresponse in multifunctional titania nanomaterials	Dr. Arvind Agarwal

Publication in International Journals

- [1] K. Mishra, A. Kushwaha, and P. P. Sahay, "Influence of Cu doping on the structural, photoluminescence and formaldehyde sensing properties of SnO₂ nanoparticles," *RSC Advances*, vol. 4, pp. 3904-3912, 2014, (I.F.= 3.84).
- [2] R. Mukherjee, C. S. Prajapati, and P. P. Sahay, "Tailoring the microstructural, optical and electrical properties of nanocrystalline WO₃ thin films using Al doping," *J. Mater. Eng. Perform.*, vol. 23, pp. 3141-3151, 2014, (I.F.= 0.915).
- [3] R. Mukherjee, C. S. Prajapati, and P. P. Sahay, "Tin-incorporation induced changes in the microstructural, optical and electrical behaviour of tungsten oxide nanocrystalline thin films grown via spray pyrolysis," *J. Therm. Spray*

- Technol.*, vol. 23, pp. 1445-1455, 2014, (I.F. = NA).
- [4] R. K. Mishra, A. Kushwaha, and P. P. Sahay, "Cr induced modifications in the structural, photoluminescence and acetone sensing behaviour of hydrothermally synthesized SnO₂ nanoparticles," *J. Exp. Nanosci.*, DOI: 10.1080/17458080.2014.952685, 2014, (I.F.=0.875)
- [5] S. B. Upadhyay, R. K. Mishra, and P. P. Sahay, "Enhanced acetone response in co-precipitated WO₃ nanostructures upon indium doping," *Sens. Actuators, B*, vol. 209, pp. 368-376, 2015, (I.F.= NA).
- [6] K. K. Sharma, S. N. Pandey, "Influence of Dzyaloshinskii–Moriya interaction on quantum correlations in two-qubit Werner states and MEMS," *Quantum Inf. Process*, vol. 14, pp. 1361-1375, 2015, (I.F.= NA).
- [7] A. K. Tiwari, V. K. Chandrasekar, S. N. Pandey, and M. Lakshmanan, "Factorization technique and isochronous condition for coupled quadratic and mixed Liénard-type nonlinear systems," *Applied Mathematics and Computation*, vol. 252, pp. 457–472, 2015, (I.F.= NA).
- [8] N. G. Pramod, S. N. Pandey, "Effect of Li doping on the structural, optical and formaldehyde sensing properties of In₂O₃ thin films," *Ceram. Int.* vol. 41, pp. 527–532, 2015, (I.F.=2.086).
- [9] K. K. Sharma and S. N. Pandey, "Entanglement dynamics in two-parameter qubit–qutrit states under Dzyaloshinskii–Moriya interaction," *Quantum Inf. Processing*, vol. 13, pp. 2017-203. 2014, (I.F.= NA).
- [10] M. C. Mathpal, P. Kumar, R. Balasubramanian, J. S. Chung, A. K. Tripathi, M. Kumar Singh, M. M. Ahmad, S. N. Pandey, and A. Agarwal, "Ag/TiO₂/ graphene stacking for plasmonic metamaterial-based transparent semiconducting thin films." *Materials Letters*, vol. 128, pp. 306-309, 2014, (I.F.= NA).
- [11] S. Singh, N. Kumar, A. Jha, M. Sahni, R. Bhargava, A. Chawla, R. Chandra, S. Kumar, and S. Chaubey, "Effect of annealing temperature on the physical properties of Zn-ferrite nanoparticles," *J. Supercond Nov Magn*, vol. 27 pp. 821, 2014, (I.F.= NA).
- [12] M. Sahni, N. Kumar, S. Singh, A. Jha, S. Chaubey, M. Kumar and M. K. Sharma, "Influence of Mn doping on structural, electrical and magnetic properties of (0.90) BiFeO₃ – (0.10) BaTiO₃ composite," *J Mater Sci : Mater Electron*, 2014, (in press), (I.F.=1.486).
- [13] S. Singh, N. Kumar, A. Jha, M. Sahni, K. D. Sung, J. H. Jung and S. Chaube, "Study of magnetic, dielectric and magnetodielectric properties of BaTiO₃/Fe₃O₄ core/shell nanocomposite," *J Mater Sci: Mater Electron* 2014 (in press), (I.F.=1.486).
- [14] A. K. Tripathi, M. C. Mathpal, P. Kumar, M. K. Singh, S. K. Mishra, R. K. Srivastava, J. S. Chung, G. Verma, M. M. Ahmad, A. Agarwal, "Synthesis based structural and optical behavior of anatase TiO₂ nanoparticles," *Materials Science in Semiconductor Processing*, vol. 23, pp. 136-143, 2014, (I.F.=1.955).
- [15] M. C. Mathpal, A. K. Tripathi, P. Kumar, V. Agrahari, M. K. Singh, and A. Agarwal, "Distortion induced band gap and phase transformation in Ti_x Ag_(1-x) O₂ system," *Chemical Physics Letters*, vol. 614, pp. 162-166, 2014, (I.F.=2.337).
- [16] M. C. Mathpal, A. K. Tripathi, P. Kumar, R. Balasubramanian., M. K. Singh, J. S. Chung, S. H. Hur, and A. Agarwal "Polymorphic transformations and optical properties of graphene based Ag doped titania nanostructures" *Physical Chemistry Chemical Physics*, vol. 16, pp. 23874, 2014, (I.F. = 4.493).
- [17] M. C. Mathpal, P. Kumar, S. Kumar, A. K. Tripathi, M. K. Singh, J. Prakash, and A. Agarwal, "Opacity and plasmonic properties of Ag embedded glass based metamaterials," *RSC Advances*, vol. 5, pp. 12555–12562, 2015, (I.F. = 3.84).
- [18] A. K. Tripathi, M. C. Mathpal, P. Kumar, M. K. Singh, and M. A. G. Soler, A. Agarwal, "Structural, optical and photoconductivity of Sn and Mn doped TiO₂ nanoparticles" *Journal of Alloys and Compounds*, vol. 622, pp. 37-47, 2015, (I.F. = 2.407).
- [19] V. Agrahari, M. C. Mathpal, M. Kumar, and A. Agarwal, "Investigations of optoelectronic properties in DMS SnO₂ nanoparticles," *Journal of Alloys and Compounds*, vol. 622, pp. 48-53, 2015, (I.F. = 2.407).
- [20] R. R. Shahi, A. Bhatnagar, S. K. Pandey, V. Dixit and O. N. Srivastava, "Effects of Ti-based Catalysts and Synergistic Effect of SWCNTs-TiF₃ on Hydrogen Uptake and Release from MgH₂," *International Journal of Hydrogen Energy*, vol. 39, no. 26, pp. 14255-14261, 2014 (I.F.=3.313).
- [21] A. Bhatnagar, S. K. Pandey, V. Dixit, V. Shukla, R. R. Shahi, M. A. Shaz and O. N. Srivastava, "Synergistic effect of carbon nanostructure on the hydrogen sorption studies of MgH₂/NaAlH₄ composite," *International Journal of Hydrogen Energy*, pp. 1440-1446, 2014, (I.F.=3.313).

- [22] R. K. Pandey, A. K. Singh, and R. Prakash, "Directed Self Assembly of Poly (3, 3'-dialkylquaterthiophene) Polymer Thin Film: Effect of Annealing Temperature," *J. Phys. Chem.*, vol. 118, pp. 22943–22951, 2014, (I.F.=4.772).
- [23] R. K. Pandey, A. K. Singh, C. Upadhyay, and R. Prakash, "Molecular Self Ordering and charge Transport in Layer by Layer Deposited Poly (3,3''-dialkylquaterthiophene) Films by Langmuir - Schaefer Technique," *J. Appl. Phys.*, vol. 116, pp.094311, 2014, (I.F.=2.183).
- [24] A. K. Singh, S. Andleeb, J. Singh, H. T. Dung, Y. Seo, and J. Eom, "Ultra Violet Light Induced Reversible and Stable Carrier Modulation in MoS₂ Field Effect Transistors," *Advance Functional Materials*, vol. 24, pp. 7125–7132, 2014 (I.F.=11.805).
- [25] B Gupta, A. K. Singh, and R. Prakash, "Electrochemical Synthesis and characterizations of Conducting Copolymer of Indole and Carbazole: Application for Schottky diode," *Solid State Sciences*, vol. 35, pp. 56-61, 2014, (I.F. = 1.671).
- [26] S. Tiwari, A. K. Singh, and R. Prakash, "Poly (3-hexyl-thiophene) (P3HT)/ Graphene nanocomposite based Hybrid Organic Field Effect Transistor," *Journal of Nanoscience and Technology*, vol. 14, pp. 2823–2828, 2014, (I.F. = 1.5).
- [27] A. K. Singh and J. Eom, "Negative Magnetoresistance in Vertical Single Layer Graphene Spin Valve at Room Temperature," *ACS Applied Materials & Interface*, vol. 6, pp. 2493–2496, 2014, (I.F.=6.723).

Publication in Conferences

- [1] Sushant Singh, Mohit Sahni, Aashish Jha, Amit Srivastava, S Chaubey and Naresh Kumar, "Influence of substrate temperature and oxygen pressure on the structural and morphological properties of PLD grown ZnFe₂O₄ thin films," Proceedings of the International Conference on Multifunctional Materials, Structures and Applications (ICMMSA-2014), MNNIT Allahabad, 2014.
- [2] A. Jha, N. Kumar, S. Singh, A. Srivastava, and S. Chaubey, "Growth induced magnetic anisotropy in nanocrystalline cobalt ferrite thin films deposited by PLD," Proceedings of the International Conference on Multifunctional Materials, Structures and Applications (ICMMSA-2014), MNNIT Allahabad, 2014.

Reviewer in International Journals

Sl. No.	Faculty Name	Journal Name
1.	Prof. P.P. Sahay	Sensors and Actuators; Elsevier Journal of Thermal Spray Technology; Springer
2.	Dr. S. N. Pandey	Quantum Information Processing (Springer) Physica Scripta National Academy Science Letters (Springer)
3.	Dr. Rohit R Shahi	Journal of Industrial and Engineering Chemistry Materials and Deign International Journal of Hydrogen Energy

Books/Book Chapters Authored

Sl. No.	Faculty Name	Book	Book Chapter	Publisher
1.	Rohit R Shahi, O.N.Srivastava and M.A Shaaz	-	Potential Hydrogen Storage Materials; Materials for Future Energy Carrier	Lambert Academic Publishing ISBN 978-3-659-62169-7

Conferences/Workshop/Short term course/Training Program attended

- (i) Dr. S. N. Pandey visited Nano-scale Transport Physics Laboratory in the School of Physics at the University of the Witwatersrand, Johannesburg, South Africa from November 19, 2014 to November 29, 2014.
- (ii) Arun Kumar Singh and Rajiv Prakash "Electronic Properties of Organic Schottky Diode based on Polycarbazole Nanocomposites" International Conference on Soft Materials (ICSM-14), Jaipur, India, Oct 6 – 10, 2014, (Poster presentation).
- (iii) Arun Kumar Singh and Rajiv Prakash "Electronic and Optical Properties of Organic Schottky Diode based on Polycarbazole-Multiwalled Carbon Nanotube Nanocomposite" International Conference on Electron

- Microscopy and XXXV Annual Meeting of the Electron Microscope Society of India, New Delhi, India, July 9–11, 2014, (Poster presentation).
- (iv) Arvind Agarwal, Anand Kumar Tripathi, Mohan Chandra Mathpal, Maria Aparecida Godoy Soler, Manish Kumar Singh, “TEM studies of pure, doped and graphene decorated TiO₂ Nanostructures” Physics Boat Workshop (PBW) “Atomic structure of nanosystems from first-principles simulations and microscopy experiments” June 3-5, 2014 Helsinki (Finland) to Stockholm (Sweden).
- (v) Arvind Agarwal, “X-ray Absorption Spectra of Tl-Ba-Ca-Cu-O superconductors and local Structure of thallium ion” 14th International Conference on Particle Induced X-ray Emission (“PIXE 2015”) Somerset West (Western Cape, South Africa) 25 February –3 March, 2015.
- (vi) Arvind Agarwal attended Short-Term Course on "Physics Lab Organization and Updating" conducted by National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh during July 21-25, 2014. His participation was supported by TEQIP-II.
- (vii) Rohit R Shahi, “MgH₂-ZrFe₂/ZrFe₂H_x Nanocomposites for Improved Hydrogen Sorption Behavior of MgH₂,” World Hydrogen Energy Conference (WHEC 2014) Gwangju, South Korea, June 15-20, 2014.
- (viii) Rohit R Shahi, “Effect of Quenching rates on microstructure and their correlation with improved hydrogenation characteristics of Ti-based nano quasicrystalline alloys,” International Conference on Electron Microscopy, University of Delhi, Delhi, India July 9-11, 2014.
- (ix) Arvind Agarwal attended Short-Term Course on “Physics Lab Organization & Updating” conducted by National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh during July 21-25, 2014. His participation was supported by TEQIP-II.

Research Projects Ongoing/Completed

Sl. No.	Principal Investigator/Co-investigator (s)	Title of the Project	Funding Agency	Amount (in Lacs)	Duration (Status)
1.	Prof. P.P. Sahay	Synthesis and characterization of metal-oxide semiconducting nanostructures with appropriate doping for various applications	UGC, New Delhi	9.98	July 1, 2011 to June 30, 2014 (Completed)
2.	Dr. Arvind Agarwal	Estimation of size of nanoparticles by various techniques: A comparative study	TEQIP-II	3.50	2013-14 (Completed)
3.	Dr. Naresh Kumar	Synthesis and study of laser ablated magnetic / metallic / semiconducting nanostructures	TEQIP-II	4.40	2013-14 (Completed)
4.	Dr. A. K. Ojha	DFT Study of Neutral and Zwitterionic Forms of Biologically Important Molecules in Polar and Non-polar Environments and Calculation of Dissociation Constants.	CSIR	10.50	2011-15 (Ongoing)
5.	Dr. A. K. Ojha	Synthesis and Optical Characterization of Low Dimension Systems	DST	23.00	2012-15 (Ongoing)
6.	Dr. A. K. Ojha	Study on synthesis, optical, and magnetic properties of multi-layer grapheme and its transition metal doped nano composite	TEQIP-II	2.00	2013-14 (Completed)

10.14 SCHOOL OF MANAGEMENT STUDIES

Vision

To create managers who have the competence to operate efficiently at the domestic and global levels through their knowledge, skills and creativity, with personal integrity and social responsibility.

Mission

To be a provider of globally competitive, high quality managerial human resource. To promote and significantly contribute towards development of technologies and innovation appropriate to sustainable economic growth and enrichment of quality of life.

List of Labs

- (i) Systems Laboratory
- (ii) Behaviour Dynamics Laboratory
- (iii) Research Scholars Lab

Courses offered by the Department:

- (i) Master of Business Administration
- (ii) Ph.D.

Courses in which students were admitted in 2014-2015

- (i) Master of Business Administration
- (ii) Ph.D.

List of Ph. D. Thesis Completed

Sl. No.	Name of Student (Reg. no.)	Thesis title	Supervisor(s)
1.	Dr. Pramod Kr. Gupta	A Framework for Mapping Supply Chain Risks and Mitigation Strategies'	Dr. Tanuj Nandan
2.	Dr. Puja Agrawal	An Assessment of Pricing Efficiency in Indian Options Market: A Study of National Stock Exchange	Dr. Tanuj Nandan
3.	Dr. Prabir Panda (2009RMS53)	E-Government Procurement Implementation in India: Developing a Decision Matrix	Dr. G. P. Sahu
4.	Rajeev Srivastatva (2008RMS10)	E-Waste Management: Developing a Model for Effective Take Back System in India	Dr. G. P. Sahu
5.	Manmohan Mishra (2008RMS05)	Towards e-health: A study of Indian Public & private Hospitals	Dr. G. P. Sahu

Publication in International Journals

- [1] Geetika, P. Ghosh, A. Rai, J. P. Joshi, and P. Singh, "Measuring Workers' Satisfaction with Grievance Handling Procedure; Study of a Power Distribution Major in India," *Asian Journal of Management Cases*, vol. 11, no. 2, pp. 139-157, 2014, (I.F.=NA).
- [2] T. Nandan, P. Agrawal, and S. Jindal, "An Empirical Investigation of Mispricing in Stock Futures at National Stock Exchange," *Indian Journal of Finance*, vol. 9, no. 9, 2014, (I.F.=NA).
- [3] T. Nandan, P. Agrawal, and S. Bhargava, "Mispricing in CNX Nifty Index Futures: An Empirical Investigation," *Asia Pacific Journal of Management Research and Innovation*, vol. 10, no. 4, pp. 413-422, 2014, (I.F.=NA).
- [4] A. Gupta and G. P. Sahu, "Exploring Relationship Marketing Dimensions and Their Effect on Customer Loyalty- A Study of Indian Mobile Telecom Market," *International Journal of Business Innovation and Research*, ISSN print: 1751-0252, 2015, (I.F.=NA).
- [5] P. Panda, and G. P. Sahu, "E-Government Procurement Implementation in India: A cross sectional study International Journal of Business Information Systems," vol. 18, no. 1, pp 1-25, 2014, (I.F.=NA).
- [6] P. Panda, G. P. Sahu, B. Gupta, and V. Muthyala, "E-Government Procurement Implementation in India: Two Comparative Case Studies from the Field, published by ACM Digital Library, 2015 (I.F.=NA).
- [7] P. Dwivedi, and G. P. Sahu, "Adoption of information and communication technology towards growth of small and medium enterprises: a case study of Indian enterprises," *International Journal of Indian Culture and Business Management*, vol. 8, no. 2, pp. 182 – 197, 2014, (I.F.=NA).
- [8] A. Gupta, G. P. Sahu, M. Mishra, and A. M. Dubey, "E-Governance in India: Transformation in Approach," *Uttaranchal Business Review*, vol. 1, no. 1, pp. 133-142, 2014, (I.F.=NA).
- [9] T. Singh and G. Chawla, "Antecedents and Consequences of Union Participation," A

- Review. *Journal of Advanced Management Science*, vol. 3, no. 1, pp. 44-49, 2014, (I.F.= NA).
- [10] V. Srivastava, and T. Singh, "Managing Relationship with Supplier (s): An Exploratory Study of Select Indian Manufacturing firms," *Journal of Publishing India Supply Chain Management Systems*, vol. 3, no. 1, pp. 40-47, 2014, (I.F.= NA).
- [11] T. Singh, S. Nandan and G. Chawla, "HR Service Dimensions of Quality of Work Life Factors: IT Enabled Services Perspectives in India," *International Journal of Indian Culture and Business Management*, vol. 10, no. 4, 2015, (I.F.= NA).
- [12] R. Dubey, T. Singh, A. S. Sadil, and S. Tiwari, "Contextual Relationship among antecedents of truck freight using Interpretive structural modelling and its validation using MICMAC Analysis," *International Journal of Logistics Systems and Management*, vol. 20, no. 1, 2015, (I.F.= NA).
- [13] T. Singh, and R. Singh, "Talent Quotient for Indian Management Teachers," *International Journal of Business Innovation and Research*, vol. 9, no. 6, 2014, (I.F.= NA).
- [14] P. Ghosh, A. Rai, Ragini, and A. Singh, "Support at Work to Fuel Engagement: A Study of Employees of Indian Banking Sector," *accepted for publication in Review of Integrative Business and Economics Research*, vol. 3 no. 6, pp. 48-52, 2015, (I.F.= NA).
- [15] P. Ghosh, A. Rai, Ragini, N. Gupta, and A. Singh, "Exploring the Moderating Role of Context Satisfaction between Job Characteristics and Turnover Intention of Employees of Indian Public Sector Banks," *Journal of Management Development*, vol. 34, no. 8, pp. 1019 – 1030, 2015, (I.F.= NA).
- [16] P. Ghosh, R. Chauhan, A. Rai, "Supervisor Support in Transfer of Training: Looking Back at Past," *Research, Industrial and Commercial Training*, vol. 47, no. 4, pp. 201 – 207, 2015, (I.F.= NA).
- [17] P. Ghosh, A. Rai, and A. Sinha, "Organizational Justice and Employee Engagement: Exploring the Linkage in Public Sector Banks in India," *Personnel Review*, vol. 43, no. 4, pp. 628 – 652, 2014, (I.F.= NA).
- [18] V. Tripathi, A. Tandon and A. Gupta, "The Viability of Benefit Segmentation in Tier II Cities of India- Identifying Benefits Sought by Indian Customers," *International Journal of Business Innovation & Research*, (in press) 2014, (I.F.= NA).
- [19] A. Tandon, V. Tripathi, and A. Gupta, "The transformation of value and evolution of customer experience: an exploration of the typologies, facets and significance," *International Journal of Indian Culture and Business Management*, vol. 8, no. 4, pp. 425-441, 2014, (I.F.=0.00).

Publication in National Journals

- [1] Geetika, P. Ghosh, and A. Shukla, "State of Urban Homeless Poor in India," A Stock-Taking of the City of Allahabad, Urban India, 2015 (in press).
- [2] T. Nandan, and P. K. Gupta, "Managing Risk in Supply Chain: Review of Approaches and Emerging Trends," *Apeejay Business Review*, vol. 13, no. 1 & 2, 2015.
- [3] V. Tripathi, and G. Nema, "Service Quality Determinants for Public Transport and Use Intention: A Study of Commuters and Non-Commuters in India, *Journal of Indian Transport*, Institute of Urban Transport, vol. 1, no. 1, pp. 50 – 58, 2014.

Publication in Conferences International / National

- [1] T. Nandan and P. Agrawal, "An Examination of Currency Futures Market in India," *International Conference on Advances in Management and Technology: Mapping Strengths with Opportunities*, MNNIT Allahabad, Jan. 29-31, 2015.
- [2] T. Singh, and G. Chawla, "Antecedents and Consequences of Union Participation," *A Review*, *International Conference on Management and Humanities*, UAE Dubai, *Session Management and Humanities*, IEDRC, April 4 - 5, 2014.
- [3] T. Singh, and R. Singh, "A Conceptual Framework for Teacher's Talent Retention in Management Education Entities in India," *International Conference on Advances in Management and Technology: Mapping Strengths with Opportunities*, MNNIT Allahabad, Jan. 29-31, 2015.
- [4] T. Singh, and A. Agrawal, "Implementation of Quality Systems in Indian MSMEs: A Critical Analysis of Successful Case Studies," *International Conference on Advances in Management and Technology: Mapping Strengths with Opportunities*, MNNIT Allahabad, Jan. 29-31, 2015.

- [5] P. Ghosh and Ragini, "Role of Trainee Self Efficacy on Transfer of Training," A Review of Literature, presented at the International Conference on Advances in Management and Technology: Mapping Strengths with Opportunities, MNNIT Allahabad, Jan. 29-31, 2015.
- [6] P. Ghosh, Ragini and A. Rai, "Analysing the Role of Union Instrumentality in Women's Participation in Trade Unions," A Study of Indian Manufacturing Sector, presented at the Australian Academy of Business and Social Sciences Conference 2014, Kuala Lumpur, Aug 25-26, 2014.
- [7] V. Tripathi, K. Suresh, "Social Marketing Effectiveness – Analyzing Government Policies & Interventions for Cessation of Tobacco Use," International conference on Corporate Social Responsibility, November 04- 05, 2014, Colombo, Sri Lanka, 2014.
- [8] V. Tripathi and A. Tandon, "Understanding Mall Shopping Experiences," Examining the Effect of Gender on Mall Attractiveness of Shoppers in Tier II Cities, International Conference on Advances in Management and Technology: Mapping Strengths with Opportunities, MNNIT Allahabad, Jan. 29-31, 2015.
- [9] P. Dwivedi, A. K. Arora and G. P. Sahu, "Role Impact of Corruption on the Economy of a nation: A Study, presented at the International Conference on Advances in Management and Technology: Mapping Strengths with Opportunities, MNNIT Allahabad, Jan. 29-31, 2015.
- [10] A. M. Dubey, Geetika and G. P. Sahu, "Determinants of Sustainable Competitive Advantage in Indian Aviation Industry," presented at the International Conference on Advances in Management and Technology: Mapping Strengths with Opportunities, MNNIT Allahabad, Jan. 29-31, 2015.
- [11] P. Panda, G. P. Sahu, B. Gupta, and V. Muthyala, "E-Government Procurement Implementation in India: Two Comparative Case Studies from the Field" presented at the ICEGOV'14, Guimaraes, Portugal, Oct 27-30 2014.

Reviewer in International Journals

Sl. No.	Faculty Name	Journal Name
1.	Dr. Tanuj Nandan	International Journal of Supply Chain and Inventory Management (IJSCIM). Inderscience International Journal of Management Practice (IJMP), Inderscience.
2.	Dr. G. P. Sahu	International Journal of Electronic Government Research. Journal of Cases on Information Technology. International Journal of Electronic Governance (IJEG).
3.	Dr. Tripti Singh	The TQM Journal, Emerald. Journal of Humanitarian Logistics and Supply Chain Management, Emerald. Benchmarking , Emerald.
4.	Dr. Piyali Ghosh	Guest Editor of Journal of Entrepreneurship and Innovation, Springerlink. Reviewer of International Journal of Retail & Distribution Management, Emerald Group Publishing Ltd. Reviewer of Journal of Marketing Management, Taylor & Francis Reviewer of The International Review of Retail, Distribution and Consumer Research, Taylor & Francis.
5.	Dr. Vibhuti Tripathi	Asia Pacific Marketing Review. African Journal of Business Management.

Book(s)/Book Chapter(s) Authored

Sl. No.	Faculty Name (Author/Co-author)	Book Chapter	Publisher
1.	Dr. Tanuj Nandan and Kumar Saurabh	Emerging Trends in Banking, Financial, Services and Insurance Sector	Mutual Fund Investments: Effect of Demographic, Fund and Marketing Specific Factors Indra Publication House, Bhopal ISBN 978-93-82518-556
2.	Dr. Vibhuti Tripathi and Dr. Anushree Tandon	Changing Face of Modern Retail: The New Economic Order	Identifying Dimensions of Mall Attractiveness: A Study of Shoppers in Metro Cities of India Popular Book Depot Jaipur ISBN: 978-81-86098-06-6
3.	Prof. Geetika, Dr. Tanuj Nandan, Dr. Tripti Singh, Dr. Piyali Ghosh and Dr. Vibhuti Tripathi	Advances in Management and Technology: Mapping Strengths with Opportunities	Full Book McGraw Hill Education, New Delhi, ISBN (13): 978-93-392-2075-4
4.	P. Dwivedi, A. K. Arora and G. P. Sahu	Advances in Management and Technology: Mapping Strengths with Opportunities	Impact of Corruption on the Economy of a nation: A Study McGraw Hill Education, New Delhi, ISBN (13): 978-93-392-2075-4
5.	A. M. Dubey, Geetika and G. P. Sahu	Advances in Management and Technology: Mapping Strengths with Opportunities	Determinants of Sustainable Competitive Advantage in Indian Aviation Industry McGraw Hill Education, New Delhi, ISBN (13): 978-93-392-2075-4
6.	P. Panda, G. P. Sahu, B. Gupta, and V. Muthyala	E-Government Procurement Implementation in India: Two Comparative Case Studies from the Field	ACM Digital Library, ACM New York, NY, USA ©2014, doi>10.1145/2691195.2691201 ACM Digital Library, ACM New York, NY, USA ©2014, doi>10.1145/2691195.2691201 ISBN: 978-1-60558-611-3
7.	Dr. Piyali Ghosh and Dr. Shefali Nandan	Industrial Relations & Labour Laws	Full Book McGraw Hill Education, New Delhi, ISBN-13: 978-93-392-0304-7

Conference/Workshop/Short Term Course Organized by the Department

Sl. No.	Seminar/Conferences	Chair/Co-Chair/Coordinator	Month & Year
1.	International Conference on Advances in Management and Technology	Prof. Geetika- Conference Chair Dr. Tanuj Nandan- Organizing Chair Dr. G. P. Sahu - Organizing Chair – International Dr. Tripti Singh- Organizing Chair Dr. Piyali Ghosh - Organizing Chair Dr. Vibhuti Tripathi - Organizing Chair	Jan. 29-31, 2015.

Invited Lectures Delivered

[1] Dr. Tanuj Nandan delivered following Invited Lectures:

- i. Introductory Statistics and Design of Experiments at the FDP on Research Methodology, at UPRTOU, Allahabad, March 14, 2015, and March 17, 2015.
- ii. Agricultural Commodity Marketing in India at the Academic Staff College Doctoral Students' Interaction Program, Govind Ballabh Pant Social Science Institute, University of Allahabad, Allahabad, March 27, 2015.

Invited Lectures Organized

- (i) Prof. Ravi Srivastava, Centre for the Study of Regional Development, School of Social Sciences, Jawaharlal Nehru University, New Delhi, Topic "Economic Environment," August 21, 2014.
- (ii) Dr. Lakshmi Iyer, Associate Professor, North Carolina University, USA "Use of IT in Business," August 28, 2014.
- (iii) Prof. A. K. Agrawal, Faculty of Management Studies, Banaras Hindu University, Varanasi "Spirituality and Ethics in Management," September 01, 2014.
- (iv) Mr. Anjan Basu, Chief General Manager, State Bank of India, "Banking in India", Novemebr, 11, 2014.
- (v) Prof. P. N. Mishra, Director, Institute of Management Studies, Devi Ahilya University, Indore "Bhagavad Geeta and its relevance to modern life," January, 23, 2015.

Coordinator/Co-coordinator in Workshops/Short-Term Courses/Training Programme

- (i) Dr. Tripti Singh (Coordinator), Short Term Training Program on, 'Self Defence for Women', October, 2014
- (ii) Dr. Tanuj Nandan, Dr. Tripti Singh and Dr. Vibhuti Tripathi (Coordinators) Short Term Training Program on "Advanced Research Methodology," July, 2014
- (iii) Dr. Tripti Singh (Coordinator), Dr. Vibhuti Tripathi (Co-coordinator) 2nd day Workshop

on, "Interactive Workshop on Communication and People Skills," August 22 -23, 2014.

Conferences / Workshops / Short-Term Courses / Training Programme Attended

- (i) Dr. G. P. Sahu attended following Training Programs:
 1. Safe-Zone Training During April 2014 to May 02, 2014, organized by Safe Zone, California State University Monterey Bay, California, USA.
 2. Innovation and Big Data on November 7, 2014, Organized by IIED, California State University Monterey Bay, California, USA
 3. Data Security and Privacy on September 26, 2014 organized by Skill Port, California State University, California, USA.
 4. Social and Behavioral Research Investigator and Key Personnel Basic Course. Human Research Curriculum Completion Report during June 16-17, 2014 organized by Collaborative Institutional Training Initiative, University of Miami, USA.
 5. Teaching Online- An Introduction to Online Delivery: Two weeks training Program during June 12 to 26, 2014 organized by Quality Matter, California State University Monterey Bay, California, USA.
 6. Teaching, Learning and Assessment Summer Institute 2014 on May 29, 2014, organized by Media Learning Center, California State University Monterey Bay, California, USA
 7. Post-Doctoral Fellowship during February 03, 2014 to February 02, 2015 at California State University Monterey Bay, California, USA.

Research Projects Ongoing/Completed

Sl. No	Principal Investigator/Co investigator(s)	Project Title	Funding Agency	Amount (INR in Lacs)	Duration (Status)
1.	Prof. Geetika (Principal Investigator), Dr. G P Sahu and Dr Piyali Ghosh (Co-Principal Investigators)	Multi-partnership Model of Self Sustainable Shelters for Urban Homeless Poor	Human Settlement Management Institute, HUDCO, New Delhi	16.00	April 2013-August 2015,
2.	Dr. Tanuj Nandan (Principal Investigator), Dr. Tripti Singh and Dr. Shefali Nandan (Co-Principal Investigators)	Antecedents and Predictors of Investment Behaviour amongst Urban Poor: A study of Uttar Pradesh'	Indian Council for Social Science Research (ICSSR)	8.00	November 2014 granted for 24 months.
3.	Dr. Tripti Singh, Principal Investigator	HR Competency Mapping amongst Women SHG in UP	Indian Council for Social Science Research (ICSSR)	5.00	May 2014 for 2 years
4.	Dr. G. P. Sahu	NMEICT: Empowerment of Students and Teachers through Synchronous and Asynchronous Instructions (Establishment and Execution of Remote Classroom)	NMEICT, MHRD, GOI, through IIT Bombay	1.50	March 2013 onward - ongoing
5.	Dr. G. P. Sahu	Developing suitable pedagogical methods for various classes, intellectual calibers and research in e-Learning	NMEICT, MHRD, GOI, through IIT Kharagpur	7.50	August 2013 onward – ongoing

FINANCIAL AND ACCOUNT DETAILS

11.1 Financial and Account Report

<p>मिति: 18-2-16</p> <p>पत्र संख्या: 7146</p> <p>दिनांक: 18-2-16</p>	
<p>कार्यालय प्रधान निदेशक लेखापरीक्षा (केन्द्रीय) लखनऊ, शाखा कार्यालय इलाहाबाद सत्यनिष्ठा भवन 15 -ए दयानन्द मार्ग इलाहाबाद</p>	
पत्र संख्या: स्वा.नि.(कें)/पू.ले.प.-17/2015-16/	दिनांक- .02.2016
सेवा में,	
सचिव, भारत सरकार, मानव संसाधन विकास मंत्रालय, उच्च शिक्षा विभाग, शास्ती भवन, नई दिल्ली - 110001	
विषय: मोती लाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान, इलाहाबाद के वर्ष 2014-15 के लेखों पर पृथक लेखा परीक्षा प्रतिवेदन।	
महोदय,	
मैं, मोती लाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान, इलाहाबाद के वर्ष 2014-15 के लेखों पर पृथक लेखापरीक्षा प्रतिवेदन (अंग्रेजी) तथा वार्षिक लेखे की प्रति अग्रसारित कर रहा हूँ।	
2. कृपया सुनिश्चित करें कि लेखापरीक्षा प्रतिवेदन एवं सम्बन्धित लेखा संसद के दोनों सदनों के सम्मुख प्रस्तुत हुआ।	
3. कृपया पृथक लेखापरीक्षा प्रतिवेदन एवं लेखों को संसद के दोनों सदनों के समक्ष अन्तिम रूप से प्रस्तुत करने की तिथि भारत के नियंत्रक एवं महालेखापरीक्षक के साथ-साथ इस कार्यालय को भी सूचित करें।	
संलग्नक: उपरोक्तानुसार।	
भवदीय,	
प्रधान निदेशक लेखापरीक्षा (केन्द्रीय)	
पत्र संख्या: स्वा.नि.(कें)/पू.ले.प.-17/2015-16/172	दिनांक- 10.02.2016
वर्ष 2014-15 के लेखों पर पृथक लेखापरीक्षा प्रतिवेदन (अंग्रेजी) की प्रति निदेशक, मोती लाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान, इलाहाबाद उत्तर प्रदेश 211004 को आवश्यक कार्यवाही हेतु प्रेषित है। संस्थान यदि आवश्यकता अनुभव करे तो इस प्रतिवेदन का हिन्दी अनुवाद करवा सकता है परन्तु इस प्रतिवेदन के हिन्दी अनुवाद में निम्नलिखित अस्वीकरण (disclaimer) अंकित होना चाहिए :-	
"प्रस्तुत प्रतिवेदन मूलरूप से अंग्रेजी में लिखित पृथक लेखापरीक्षा प्रतिवेदन का हिन्दी अनुवाद है। यदि इसमें कोई विसंगति परिलक्षित होती है तो अंग्रेजी में लिखित प्रतिवेदन मान्य होगा।"	
हिन्दी अनुवाद की एक प्रति इस कार्यालय को भी प्रेषित करने का कष्ट करें।	
संलग्न : उपरोक्तानुसार	
<p><i>(Signature)</i></p> <p>उप निदेशक लेखापरीक्षा (केन्द्रीय)</p>	

कुमारी
दी. राज
15.02.2016

उप-निदेशक (लेखा)
This is a clean copy & it can be used for challenge at the Annual report & showing to the Parliament

Shri ABS
SAR Misra
18-2-16

**Separate Audit Report of the Comptroller and Auditor General of India
on the accounts of Motilal Nehru National Institute of Technology,
Allahabad for the year ended 31 March, 2015**

We have audited the attached Balance Sheet of Motilal Nehru National Institute of Technology (Institute) Allahabad as at 31 March, 2015, the Income and Expenditure Account and Receipts and Payments Account for the year ended on that date under Section 19(2) of the Comptroller and Auditor General's (Duties, Powers and Conditions of Service) Act, 1971 read with section 22(2) of the National Institute of Technology Act, 2007. These financial statements are the responsibility of the Institute's Management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Separate Audit Report contains the comments of the Comptroller and Auditor General of India (C&AG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc. if any, are reported through Inspection Reports / C&AG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by managements, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

Based on our audit, we report that:

(i) We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit;

(ii) The Balance Sheet, Income and Expenditure Account and Receipts and Payment Account dealt with by this report have been drawn up in new format prescribed by the MHRD, Government of India.

(iii) In our opinion, proper books of accounts and other relevant records have been maintained in the Motilal Nehru National Institute of Technology, Allahabad in so far as it appears from our examination of such books.

(iv) We further report that:

(A) Balance Sheet

(A.1) Five time-barred cheques amounting to ₹ 28.80 lakh were not cancelled and amount written back in account. This resulted in understatement of Bank balance as well as Current Liabilities by ₹ 28.80 lakh.

(A.2) Depreciation amounting to ₹ 93.16 lakh was not charged on assets created out of subsidiaries Fund resulting in overstatement of fixed assets by ₹ 93.16 lakh and surplus by the same amount.

(B) General

(B.1) The Institute has not prepared consolidated asset register.

(B.2) It is noticed that the MNNIT has framed its accounting policy in regard to retirement benefits (i.e Pension, accumulated leave encashment and gratuity) without following actuarial valuation. The same is contrary to the requirement of new format of accounts of MHRD and AS-15 of the ICAI. This needs to be reviewed.

(B.3) The Institute did not reflect the imprest amount of ₹ 7.53 lakh in cash balance as on 31 March, 2015 in contravention of provisions of the Account Code and guidelines of the MHRD.

(C) Grants-in-aid

During the year 2014-15, the Institute received grant of ₹ 113.64 crore from Government of India (Plan ₹ 49.04 crore + Non-Plan ₹ 44.00 crore + IRG ₹ 20.60 crore). The Institute had an opening balance of ₹ (-) 6.20 crore (Plan (-) ₹ 20.44 crore + Non-Plan ₹ 14.24 crore). Thus, total fund available with the Institute worked out to ₹ 107.44 crore, out of which the Institute utilised ₹ 106.27 crore (Plan ₹ 44.28 crore +

Non-Plan ₹ 61.99 crore) leaving a balance of ₹ 1.17 crore (Plan (-) ₹ 15.68 crore + Non-Plan ₹ 16.85 crore) as on 31 March, 2015.

(v) Subject to our observation in the preceding paragraphs, we report that the Balance Sheet, Income and Expenditure Account and Receipts and Payment Account dealt with by this report are in agreement with the books of accounts.

(vi) In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the accordingly policies and notes on accounts, and subject to the significant matters stated above and other matters mentioned in annexure give a true and fair view in conformity with the accounting principles generally accepted in India.

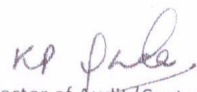
(a) In so far as it relates to the Balance Sheet, of the state affairs of the Motilal Nehru National Institute of Technology, Allahabad as at 31 March, 2015, and

(b) In so far as it relates to Income and Expenditure Account of the 'surplus' for the year ended on that date.

For and on behalf of the C&AG of India

Place: Lucknow

Date: 10.2.2016


Pr. Director of Audit (Central)

Annexure

1. Adequacy of Internal Audit System.

Although Internal Audit of the Institute was carried out, it was limited to pre checking of bills and vouchers. Internal audit was conducted in an adhoc manner without formulating an Audit Plan. The Institute has not prepared the Internal Audit Manual as of date. In view of above the Internal Audit System appears to be inadequate.

2. Adequacy of Internal Control System.

Internal Control System in the institute reflected following deficiencies:-

- Non conducting of PV of Fixed Assets and Inventory and non deposit of Income Tax.
- Non-formulation of investment policy and parking surplus funds of ₹ 12.55 crore in Current Bank account.
- Non-creation of Depreciation Reserve Fund.

In view of above internal Control System needs to be strengthen.

3. System of Physical verification of Fixed Asset.

No physical verification of fixed assets was conducted during the year and hence the existence of these assets could not be vouched in audit.

4. System of Physical Verification of Inventories.

No physical verification of inventories was conducted during the year 2014-15.

5. Regularity in payment of statutory dues.

The Institute paid its statutory dues during the year except Income Tax of ₹ 10 lakh pertaining to Research and Consultancy Cell.



Dy. Director of Audit (CE)

11.2 ANNUAL ACCOUNTS: 2014-2015

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD

BALANCE SHEET AS AT 31ST MARCH 2015

		(Amount in ₹)	
SOURCES OF FUNDS	Sch	CURRENT YEAR	PREVIOUS YEAR
CORPUS/CAPITAL FUND			
	1	2,728,300,090.16	2,400,721,751.64
DESIGNATED/ EARMARKED FUNDS			
	2	234,583,094.12	260,501,119.00
CURRENT LIABILITIES AND PROVISIONS			
	3	461,442,106.12	410,942,411.39
TOTAL		3,424,325,290.40	3,072,165,282.03
APPLICATION OF FUNDS	Sch	CURRENT YEAR	PREVIOUS YEAR
<u>FIXED ASSETS</u>			
TANGIBLE ASSETS	4	1,711,811,672.47	1,582,698,504.22
INTANGIBLE ASSETS		3,550,157.13	-
CAPITAL WORK-IN-PROGRESS		-	-
<u>INVESTMENTS FROM EARNMARKED/ENDOWMENT FUNDS:</u>	5		
LONG TERM		228,187,573.12	254,349,981.00
SHORT TERM			
<u>INVESTMENT OTHERS</u>	6		
<u>CURRENT ASSETS</u>	7	1,024,358,947.34	890,260,085.85
<u>LOANS, ADVANCES & DEPOSITS</u>	8	456,416,940.34	344,856,710.96
TOTAL		3,424,325,290.40	3,072,165,282.03
SIGNIFICANT ACCOUNTING POLICIES	23		
CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS	24		

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2015**

		(Amount in ₹)	
PARTICULARS	Sch	CURRENT YEAR	PREVIOUS YEAR
INCOME			
ACADEMIC RECEIPTS	9	218,816,111.00	168,626,143.00
GRANTS & DONATIONS	10	735,072,413.07	785,936,593.09
INCOME FROM INVESTMENTS	11	-	-
INTEREST EARNED	12	47,463,913.00	30,537,032.62
OTHER INCOMES	13	108,859,583.39	156,060,735.42
PRIOR PERIOD INCOME	14	17,798,656.00	-
TOTAL (A)		1,128,010,676.46	1,141,160,504.13
EXPENDITURE			
STAFF PAYMENTS & BENEFITS	15	502,471,390.00	500,787,042.00
ACADEMIC EXPENSES	16	110,764,652.00	91,363,792.47
ADMINISTRATIVE AND GENERAL EXPE	17	150,226,042.82	208,790,806.35
TRANSPORTATION EXPENSES	18	1,240,275.00	1,421,821.00
REPAIR & MAINTENANCE	19	84,440,128.00	53,114,403.52
FINANCE COSTS	20	350,294.00	-
OTHER EXPENSES	21	-	-
PRIOR PERIOD EXPENSES	22	32,792,136.00	-
DEPRECIATION (Net Total authorities the year end corresponding to Schedule 4)		144,116,759.00	116,107,733.00
TOTAL (B)		1,026,401,676.82	971,585,598.34
Balance being excess of income over expenditure (A-B)		101,608,999.64	169,574,905.79
Transfer to / from Designated fund, Building Fund, Others)		-	-
BALANCE BEING SURPLUS/(DEFICIT) CARRIED TO GENERAL FUND		101,608,999.64	169,574,905.79
SIGNIFICANT ACCOUNTING POLIES	23		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS.	24		

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

SCHEDULE 1- CORPUS / CAPITAL FUND

	(Amount in ₹)				
	GENERAL FUND- INSTITUTE	DEFERRED GOVERNMENT GRANT	GENERAL FUND- SUBSIDIARY(Ref Annexure A (1))	CURRENT YEAR	PREVIOUS YEAR
STIUTE					
Balance as at the beginning of the year	1,592,262,109.79	617,023,469.22	191,436,172.63	2,400,721,751.64	1,990,173,268.37
Add: Excess of Income over expenditure transferred from the Income and Expenditure Account	101,608,999.64	-	104,320,505.75	205,929,505.39	169,574,905.79
Total	1,693,871,109.43	882,155,561.35	295,756,678.38	2,871,783,349.16	2,494,406,939.64
Less: Adjustments	-	-	33,961.00	33,961.00	-
Less:Apportioned Amount of Depreciation	45,554,852.00	97,894,446.00	-	143,449,298.00	93,685,188.00
Balance as at the end of the year	1,648,316,257.43	784,261,115.35	295,722,717.38	2,728,300,090.16	2,400,721,751.64

SCHEDULE FORMING PART OF BALANCE SHEET
ANNEXURE A(1) OF SCH 1
FUND ACCOUNT - SUBSIDIARIES

Particulars	Opening Balance as on 01/04/2014	Add: Income (as per Annexure i)	Less: Expense (as per Annexure ii)	Adjustment	(Amount in ₹)	
					As at March 31, 2015	As at March 31, 2014
Alumni Association	4,584,839.50	2,765,019.00	1,750,850.75	33,961.00	5,632,968.75	4,584,839.50
Dean Academic Affairs	11,705,712.50	44,130,602.00	10,915,423.00	-	44,920,891.50	11,705,712.50
G.K. Agarwal Trust	163,844.00	29,334.00	-	-	193,178.00	163,844.00
Industrial Estate	17,914,111.69	6,285,290.50	795,610.00	-	23,403,792.19	17,914,111.69
Nodal Center	(307,004.00)	3,173.00	-	-	(303,831.00)	(307,004.00)
P.D.T.C.	(223,410.00)	7,231.00	-	-	(216,179.00)	(223,410.00)
Project Account	4,991,522.78	4,042,065.00	348,666.00	-	8,684,921.78	4,991,522.78
Research & Consultancy Cell	106,538,635.16	22,244,925.00	1,356,892.00	-	127,426,668.16	106,538,635.16
School of Non Formal Continuing Education (SNFCE)	3,261,672.00	973,318.00	596,442.00	-	3,638,548.00	3,261,672.00
Education (SNFCE)				-		
Education (SNFCE)				-		
Sponsored Gold Medal	428,784.00	28,012.00	-	-	456,796.00	428,784.00
Student Welfare Fund	12,441,511.00	3,975,519.00	953,563.00	-	15,463,467.00	12,441,511.00
TEQIP - II	29,728,386.00	70,680,181.00	34,163,245.00	-	66,245,322.00	29,728,386.00
Text Book Lending Bank	207,568.00	62,808.00	26,280.00	-	244,096.00	207,568.00
TOTAL	191,436,172.63	155,227,477.50	50,906,971.75	33,961.00	295,790,639.38	191,436,172.63

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

SCHEDULE 2-EARMARKED/ENDOWMENT FUNDS

PARTICULARS	FUND -WISE BREAK UP										TOTAL	
	GPF	CPF	NPS	Corpus Fund	Staff Develt.	Develt. Renewal Fund	Maint. Fund	CURRENT YEAR	PREVIOUS YEAR			
a) Opening balance of the funds	186,118,104.00	9,456,121.00	58,775,756.00	3,690,375.00	1,230,271.00	615,246.00	615,246.00	260,501,119.00	252,306,655.00			
b) Additions during the year	47,122,451.00	456,512.12	18,310,772.00	-	-	-	-	65,889,735.12	45,796,544.00			
c) Income from investments made of the funds	-	-	-	-	-	-	-	-	-			
d) Accrued interest on investments of the funds	1,915,738.00	52,452.00	5,082,785.00	146,617.00	48,878.00	24,444.00	24,444.00	7,295,358.00	6,054,457.00			
e) Interst on Saving Bank a/c												
f) Other additions (specify nature)	-	-	-	-	-	-	-	-	-			
TOTAL (A)	235,156,293.00	9,965,085.12	82,169,313.00	3,836,992.00	1,279,149.00	639,690.00	639,690.00	333,686,212.12	304,157,656.00			
B.												
Utilization/Expenditure towards objectives of funds												
i. Capital Expenditure	37,865,516.00	-	61,237,602.00	-	-	-	-	-	99,103,118.00			
iii. Revenue Expenditure	-	-	-	-	-	-	-	-	43,656,537.00			
TOTAL (B)	37,865,516.00	-	61,237,602.00	-	-	-	-	99,103,118.00	-			
NET BALANCE AS THE YEAR END (A-B)	197,290,777.00	9,965,085.12	20,931,711.00	3,836,992.00	1,279,149.00	639,690.00	639,690.00	234,583,094.12	43,656,537.00			
									260,501,119.00			

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

SCHEDULE 3 - CURRENT LIABILITIES & PROVISIONS

	CURRENT YEAR	PREVIOUS YEAR	(Amount in ₹)
A. CURRENT LIABILITIES			
Deposits from staff	-	-	-
Deposits from students	-	-	-
3. Sundry Creditors	-	-	-
a) For Goods & Services	-	-	-
b) Others (Refer Annexure B (1))	43,876,269.39	-	43,241,775.39
4. Deposit-Others(Including EMD, Security Deposit)	-	-	-
5. Statutory Liabilities (GPF,TDS,WC TAX,CPF,GIS,NPS):	-	-	-
a) Overdue	-	-	-
b) Others (Refer Annexure B (2))	1,577,133.00	-	98,895.00
7. Other current Liabilities	-	-	-
a) Salaries	-	-	-
b) Receipts against sponsored projects	-	-	-
c) Receipts against sponsored fellowships & scholarships (Refer Annexure B (3))	85,783,123.00	-	74,525,998.00
d) Unutilised Grants (Refer Annexure B(4))(B)	168,536,403.93	-	142,442,123.00
e) Grants in advance	-	-	-
f) Other funds (Refer Annexure B (5))	10,758,805.00	-	9,261,344.00
g) Other liabilities (Refer Annexure B (6))	107,208,046.80	-	91,417,350.00
TOTAL (A)	417,739,781.12	-	360,987,485.39
PROVISIONS			
For Taxation	-	-	-

2. Gratuity			-
3. Superannuation/Pension			
Pension Pay		2,848,278.00	2,829,903.00
Pension Relief		3,699,740.00	3,060,005.00
Commutated Pension Payable		-	-
New Pension Scheme		793,423.00	695,758.00
4. Accumulated Leave Encashment			
Leave Encashment on LIC Other Staff		181,505.00	63,500.00
5. Expenses payable (Refer Annexure B (7))		36,179,379.00	43,305,760.00
6. Trade Warranties/Claims		-	-
7. Others (Specify)		-	-
TOTAL (B)		43,702,325.00	49,954,926.00
TOTAL (A+B)		461,442,106.12	410,942,411.39

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET**

ANNEXURE 'B' OF SCH '3'

CURRENT LIABILITIES AND PROVISIONS

B(1). SUNDRY CREDITORS

Particulars	Opening Balance as on 01/04/2013	Receipts During the Year	Payments During the Year	Journal Entry	As at March 31, 2015	As at March 31, 2014
<u>INSTITUTE</u>						
Loan Account of PDTC & Industrial Estate	13,764,114.00		-	328,956.00	14,093,070.00	13,764,114.00
<u>SUBSIDIARIES</u>						
Project Account - Transferable amount to R&C Cell	154,018.00	1,061,000.00	624,455.00	-	590,563.00	154,018.00
R&C Cell - Payable to RES, Bhadhoi	39,325.00	-	-	-	39,325.00	39,325.00
R&C Cell - Testing & Consultancy (Pending)	11,006,076.00	14,894,732.00	15,025,739.00	-	10,875,069.00	11,006,076.00
R&C Cell - CCB	18,278,242.39		-	-	18,278,242.39	18,278,242.39
TOTAL	43,241,775.39	15,955,732.00	15,650,194.00	328,956.00	43,876,269.39	43,241,775.39

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'B' OF SCH '3'

CURRENT LIABILITIES AND PROVISIONS
B(2). STATUTORY LIABILITIES-OTHERS

Particulars	Opening Balance as on 01/04/2014	Receipts During the Year	Payments During the Year	As at March 31, 2015	As at March 31, 2014
<u>INSTITUTE</u>					
Income Tax	-	35,800,773.00	35,800,773.00	-	-
Sales Tax	-	4,837,562.00	4,837,562.00	-	-
Employees contribution to C.P.F	-	456,512.00	456,512.00	-	-
Employees contribution to N.P.S	(3,000.00)	18,313,772.00	18,310,772.00	-	(3,000.00)
GPF- contribution to employees	101,895.00	31,470,029.00	31,010,725.00	561,199.00	101,895.00
<u>SUBSIDIARIES</u>					
Project Account - Income Tax	-	66,361.00	49,961.00	16,400.00	-
R&C Cell - Income Tax	-	2,252,422.00	1,252,888.00	999,534.00	-
SNFCE - Income Tax	-	101,645.00	101,645.00	-	-
Dean Academic Affairs - Income Tax	-	-	-	-	-
TOTAL	98,895.00	93,299,076.00	91,820,838.00	1,577,133.00	98,895.00

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET**

ANNEXURE 'B' OF SCH '3'

**CURRENT LIABILITIES AND PROVISIONS
B(3). RECEIPTS AGAINST SPONSORED FELLOWSHIPS & SCHOLARSHIPS**

HEAD OF ACCOUNT	OPENING BALANCE AS ON 01/04/2014		TRANSACTION DURING THE YEAR 2014-15		CLOSING BALANCE AS ON 31/03/2015	
	DEBIT	CREDIT	DEBIT	CREDIT	DEBIT	CREDIT
INSTITUTE						
Conference ICPCES - 2010-11 EED	-	469,217.00	-	70,000.00	-	539,217.00
ICSSR - Fellowship (Doctoral)	-	159,489.00	-	-	-	159,489.00
NRSA Project - Satellite Date Compression Decomposition	-	218,279.00	-	-	-	218,279.00
U.G.C.	-	211,200.00	-	-	-	211,200.00
QIP Stipend & Contingency	-	2,792,884.00	2,007,245.00	-	-	785,639.00
Outside Scholarship	-	67,547.00	-	-	-	67,547.00
U.G.C. Fellowship	205,454.00	-	3,627,858.00	4,472,049.00	-	638,737.00
AIEEE Schlorship	-	-	1,785,000.00	1,890,000.00	-	105,000.00
Raman Fellowship For Post Doctrolstudies	-	-	2,290,928.00	2,290,928.00	-	-
SUBSIDIARIES						
Project Account :						
Project (Running)	-	20,752,650.00	26,480,233.00	32,648,651.00	-	26,921,068.00
Project (Deffered Grant)	-	50,060,186.00	-	6,076,761.00	-	56,136,947.00
TOTAL	205,454.00	74,731,452.00	36,191,264.00	47,448,389.00	-	85,783,123.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY, ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'B' OF SCH '3'

CURRENT LIABILITIES AND PROVISIONS

B(5). OTHER CURRENT LIABILITIES- OTHER FUNDS

(Amount in ₹)

Particulars	Opening Balance as on 01/04/2014	Receipts During the Year	Payments During the Year	As at March 31, 2015	As at March 31, 2014
Alumni Association	578,370.00	-	-	578,370.00	578,370.00
Bal Bharti Vidyalaya (Const of Building)	150,000.00	-	-	150,000.00	150,000.00
NMEICT Scheme	517,171.00	-	422,900.00	94,271.00	517,171.00
TEQIP-I Fund	7,084,346.00	-	-	7,084,346.00	7,084,346.00
NIMSET Scheme		150,000.00	50,000.00	100,000.00	
Prime Minister Relief Fund		-	-	-	-
ICCCT Seed		50,000.00	-	50,000.00	-
TEQUP II STIPEND	931,457.00	5,000,000.00	3,229,639.00	2,701,818.00	931,457.00
TOTAL	9,261,344.00	5,200,000.00	3,702,539.00	10,758,805.00	9,261,344.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'B' OF SCH '3'

CURRENT LIABILITIES AND PROVISIONS
B(6). OTHER CURRENT LIABILITIES- OTHER LIABILITIES

(Amount in ₹)

Particulars	Opening Balance as on 01/04/2014	Receipts During the Year	Payments During the Year	As at March 31, 2015	As at March 31, 2014
Cancelled Cheques	13,775,994.00	2,142,829.00	2,048,381.00	13,870,442.00	13,775,994.00
DST New Delhi/ Inspire	2,398,846.00	4,017,877.00	5,869,024.00	547,699.00	2,398,846.00
Examination Fees	13,357,014.00	19,423,944.00	13,357,014.00	19,423,944.00	13,357,014.00
House and building recovery employees	-	327,000.00	327,000.00	-	-
World Environment Day	-	60,000.00	60,000.00	-	-
L.I.C.	440,202.00	893,830.80	893,821.00	440,211.80	440,202.00
M.Tech (Part Time)	10,137,741.00	1,519,526.00	-	11,657,267.00	10,137,741.00
Other Liabilities (Misc. Receipt Transfer)	9,718,485.00	12,926,609.00	12,050,872.00	10,594,222.00	9,718,485.00
Employees contribution to khadi	-	9,477.00	9,477.00	-	-
Employees loan from SBI	-	504,492.00	504,492.00	-	-
Merit Scholarship	260,000.00	-	-	260,000.00	260,000.00
State Scholarship	-	1,405,673.00	1,447,331.00	(41,658.00)	-
Leave Salary Contri.(Deputation)	284,808.00	361,985.00	-	646,793.00	284,808.00
Revenue Stamp (Stamp Fees)	-	9,586.00	9,586.00	-	-
Teacher Association Subscription	-	70,500.00	70,500.00	-	-
C-DAC	116,240.00	-	-	116,240.00	116,240.00
Caution Money	21,352,726.00	3,587,470.00	2,156,388.00	22,783,808.00	21,352,726.00
Earnest Money/ Security Money	7,851,031.00	6,438,493.00	3,158,126.00	11,131,398.00	7,851,031.00
Project Account Dean R & C	-	1,986,451.00	-	1,986,451.00	-
Tequip II	-	3,293,709.00	3,090,000.00	203,709.00	-

SUBSIDIARIES								
Alumni Association - Amount Payable	3,012,250.00	572,200.00	-	-	3,584,450.00			3,012,250.00
Dean Academics - Cancelled Cheques	10,000.00	-	-	-	10,000.00			10,000.00
Industrial Estate - Expenses Payable	87,902.00	38,616.00			126,518.00			87,902.00
Project Account - Accounting Charges Payable	15,000.00	5,000.00	-	-	20,000.00			15,000.00
Project Account - Salary Payable	79,400.00	33,668.00	-	-	113,068.00			79,400.00
Project Account - MNINIT	7,722,585.00	998,740.00	-	-	8,721,325.00			7,722,585.00
Project Account - University of Allahabad		155,691.00			155,691.00			
R&C Cell - Cancelled Cheques	63,305.00	-	-	-	63,305.00			63,305.00
R&C Cell - Expenses Payable	25,408.00	19,564.00	-	-	44,972.00			25,408.00
SNFCE- C-Dac		507,840.00	477,048.00		30,792.00			
Caution Money	422,655.00	-	-	-	422,655.00			422,655.00
Earnest Money/ Security Money	241,404.00	-	-	-	241,404.00			241,404.00
Security Received (Industrial Estate)	44,354.00	8,986.00	-	-	53,340.00			44,354.00
TOTAL	91,417,350.00	61,319,756.80	45,529,060.00	107,208,046.80	91,417,350.00			91,417,350.00

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET**

ANNEXURE 'B' OF SCH '3'

**CURRENT LIABILITIES AND PROVISIONS
B(7). PROVISION- EXPENSES PAYABLE**

Particulars	As at March 31, 2015	As at March 31, 2014	(Amount in ₹)
Salaries & Wages :			
Pay Direction & Teaching	8,183,530.00	8,179,200.00	
Pay Administrative Officer	311,390.00	289,570.00	
Pay Other Staff	2,695,683.00	2,757,160.00	11,225,930.00
Dearness Allowances:			
Direction & Teaching	8,756,391.00	9,815,040.00	
Administrative Officer	333,190.00	347,484.00	
Other Staff	2,884,390.00	3,308,592.00	13,471,116.00
HRA:			
Direction & Teaching	267,198.00	273,800.00	
Administrative Officer	12,602.00	16,706.00	
Other Staff	273,076.00	552,876.00	585,376.00
Transport Allowances:			
Direction & Teaching	938,952.00	848,000.00	
Administrative Officer	42,228.00	37,400.00	
Other Staff	477,850.00	1,459,030.00	1,321,000.00
Family Planning Incentive Allowance	17,870.00		19,620.00
Washing Allowance	10,777.00		7,380.00
Special Allowance	106,107.00		66,680.00
Deans Honorarium	24,500.00		24,500.00
Cash Handling Allowance	150.00		150.00
Medical Allowance	177,500.00		107,187.00
ARREARS			
Pay Revision - Teaching/ Non Teaching	121,238.00		-
C.A. Fees Payable	205,200.00		179,776.00
C.P.F. Payable	19,208.00		18,648.00
Electricity & Power Payable			

Institute	3,100,000.00				6,500,000.00	
Colony	157,075.00			237,126.00		
Hostel	1,449,869.00	4,706,944.00		3,000,000.00	9,737,126.00	
Pay on Contractual Staff		3,510,470.00			3,942,848.00	
Security Charges Payable		2,059,134.00			2,544,494.00	
Telephone Expenses Payable		43,801.00			53,929.00	
TOTAL		36,179,379.00			43,305,760.00	

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'B' OF SCH '3'

B(4). OTHER CURRENT LIABILITIES- UNUTILISED GRANTS

<u>PARTICULARS</u>	CURRENT YEAR	PREVIOUS YEAR
(Amount in ₹)		
CENTRAL GOVERNMENT - PLAN		
Balance B/F	(204,383,554.57)	95,538,816.00
Add: Receipts during the year		
i. Donation/Grants	490,398,000.00	242,500,000.00
TOTAL (a)	286,014,445.43	338,038,816.00
Less: Utilisation/Expenditure towards objectives of funds		
i. Capital Expenditure	265,234,867.13	416,391,726.95
iii. Revenue Expenditure	177,614,621.00	126,030,643.62
TOTAL (b)	442,849,488.13	542,422,370.57
Unutilised carried forward (a-b)=A	(156,835,042.70)	(204,383,554.57)
CENTRAL GOVERNMENT - NON PLAN		
Balance B/F	1424,42,123.00	2147,17,959.00
Add: Receipts during the year		
i. Donation/Grants	4400,00,000.00	3900,00,000.00
ii. Institute Receipts	2060,26,210.00	1629,08,296.00
TOTAL (a)	7884,68,333.00	7676,26,255.00
Less: Utilisation/Expenditure towards objectives of funds		
i. Capital Expenditure	-	-
iii. Revenue Expenditure	6199,31,929.07	6251,84,132.00
TOTAL (b)	6199,31,929.07	6251,84,132.00
Unutilised carried forward (a-b)=B	1685,36,403.93	1424,42,123.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

(Amount in ₹)

SCHEDULE 4-FIXED ASSETS

Description	Annexure no.	GROSS BLOCK				DEPRECIATION				NET BLOCK	
		Opening Balance on 01.04.2014	Additions during the year	Closing Balance	As at the beginning of the year	During the year (SLM)	Total up to the year-end	As at the current year ended 31.03.2015	As at the previous year end 31.03.2014		
1. Land		52,145,714.00		52,145,714.00		-		52,145,714.00	52,145,714.00		
2. Buildings	C 1	1,201,019,323.48	26,819,631.00	1,227,838,954.48	214,283,932.00	0	24,556,780.00	238,840,712.00	988,998,242.48	986,735,391.48	
3. Plant, machinery and equipment	C 2	534,773,781.19	140,949,950.00	675,723,731.19	257,034,306.00	0	30,732,974.00	287,767,280.00	387,956,451.19	277,739,475.19	
4. Vehicles	C 3	5,974,812.00	-	5,974,812.00	4,379,319.00		597,482.00	4,976,801.00	998,011.00	1,595,493.00	
5. Furniture and fixtures	C 4	116,439,018.00	26,706,864.61	143,145,882.61	70,275,477.00		10,689,524.00	80,965,001.00	62,180,881.61	46,163,541.00	
6. Office equipment	C 5	17,492,992.05	1,896,470.00	19,389,462.05	8,185,751.00		1,405,642.00	9,591,393.00	9,798,069.05	9,307,241.05	
7. Computer peripherals	C 6	192,233,151.90	46,410,128.64	238,643,280.54	155,975,755.00		43,137,001.00	199,112,756.00	39,530,524.54	36,257,396.90	
8. Electric installations	C 7	109,550,232.00	757,757.00	110,307,989.00	48,588,498.00		5,480,708.00	54,069,206.00	56,238,783.00	60,961,734.00	
Library books	C 8	202,156,057.00	302,197.00	202,458,254.00	134,526,275.00		18,780,573.00	153,306,848.00	49,151,406.00	67,629,782.00	
10. Tube wells and water supply		2,002,100.00	-	2,002,100.00	666,145.00		40,042.00	706,187.00	1,295,913.00	1,335,955.00	
11. Other fixed assets	C 9	58,385,341.60	27,020,157.00	85,405,498.60	15,558,561.00		6,329,261.00	21,887,822.00	63,517,676.60	42,826,780.60	
Total (A)		2,492,172,523.22	270,863,155.25	2,763,035,678.47	909,474,019.00		141,749,987.00	1,051,224,006.00	1,711,811,672.47	1,582,698,504.22	

Capital works in progress (B)		GROSS BLOCK						DEPRECIATION			NET BLOCK	
		Opening Balance on 01.04.2014	Additions during the year	Closing Balance	As at the beginning of the year	During the year (SLM)	Total up to the year-end	As at the current year ended 31.03.2015	As at the previous year end 31.03.2014			
Intangible Assets												
Computer Software (Dep: 40%)		22,42,800.00	22,42,800.00		8,97,120.00	8,97,120.00	13,45,680.00					
E-Journals (Dep: 40%)		36,74,129.13	36,74,129.13		14,69,652.00	14,69,652.00	22,04,477.13					
Patents												
Total (C)		59,16,929.13	59,16,929.13		23,66,772.00	23,66,772.00	35,50,157.13					
Grand Total (A+B+C)		24921,72,523.22	2767,80,084.38	27689,52,607.60	9094,74,019.00	1441,16,759.00	17153,61,829.60	10535,90,778.00	15826,98,504.22			

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

FIXED ASSETS
C(1). BUILDINGS

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2015	As at March 31, 2014
<u>Assets out of Capital Fund:</u>								
Addition to Building (RBS)	30,873,572.00	-	30,873,572.00	-	-	-	30,873,572.00	30,873,572.00
Admission Committee	205,000.00	-	205,000.00	-	-	-	205,000.00	205,000.00
Asset Trf from TEQIP	10,783,205.00	-	10,783,205.00	-	-	-	10,783,205.00	10,783,205.00
Boundary Wall	405,000.00	-	405,000.00	-	-	-	405,000.00	405,000.00
C.C. Road	601,214.00	-	601,214.00	-	-	-	601,214.00	601,214.00
Car Garage	225,931.00	-	225,931.00	-	-	-	225,931.00	225,931.00
Const. of Faculty Room & Lab.	6,725,351.00	-	6,725,351.00	-	-	-	6,725,351.00	6,725,351.00
Construction of Boys Hostel	81,588,025.00	-	81,588,025.00	-	-	-	81,588,025.00	81,588,025.00
Construction of Girls Hostel	101,878.00	-	101,878.00	-	-	-	101,878.00	101,878.00
Construction of Shop Store	96,500.00	-	96,500.00	-	-	-	96,500.00	96,500.00
Excellence in Rec	3,916,425.00	-	3,916,425.00	-	-	-	3,916,425.00	3,916,425.00
Guest House	325,389.00	-	325,389.00	-	-	-	325,389.00	325,389.00
Institute Building	61,825,379.00	-	61,825,379.00	-	-	-	61,825,379.00	61,825,379.00
M/R Colony	27,123.00	-	27,123.00	-	-	-	27,123.00	27,123.00
M/R Institute Building	19,477.00	-	19,477.00	-	-	-	19,477.00	19,477.00
P.G. Course Building	2,901,644.00	-	2,901,644.00	-	-	-	2,901,644.00	2,901,644.00
REC-British University Collaboration	4,729,578.00	-	4,729,578.00	-	-	-	4,729,578.00	4,729,578.00
Renovation of Computer Building	51,795.00	-	51,795.00	-	-	-	51,795.00	51,795.00
Renovation of Electrical System	303,765.00	-	303,765.00	-	-	-	303,765.00	303,765.00

Research & Development Centre	73,563.00	-	-	73,563.00	-	-	-	73,563.00	73,563.00
RIDC Account	184,613.00	-	-	184,613.00	-	-	-	184,613.00	184,613.00
School of Non Formal Office	145,048.00	-	-	145,048.00	-	-	-	145,048.00	145,048.00
Shed (Design Centre)	95,126.00	-	-	95,126.00	-	-	-	95,126.00	95,126.00
Shed (Industrial Estate)	5,162,464.00	-	-	5,162,464.00	-	-	-	5,162,464.00	5,162,464.00
Shed (P.D.T.C)	599,596.00	-	-	599,596.00	-	-	-	599,596.00	599,596.00
Soil Exploration & Foundation	152,789.00	-	-	152,789.00	-	-	-	152,789.00	152,789.00
Staff Quarter	19,665,842.00	-	-	19,665,842.00	-	-	-	19,665,842.00	19,665,842.00
Structural Testing & Design	132,993.00	-	-	132,993.00	-	-	-	132,993.00	132,993.00
Student Staff Amenities	5,711,477.00	-	-	5,711,477.00	-	-	-	5,711,477.00	5,711,477.00
UPM CAT Building	3,859,028.00	-	-	3,859,028.00	-	-	-	3,859,028.00	3,859,028.00
Depreciation @2%	-	-	-	-	117,113,391.00	4,829,776.00	121,943,167.00	(121,943,167.00)	(117,113,391.00)
Sub Total	241,488,790.00	-	-	241,488,790.00	117,113,391.00	4,829,776.00	121,943,167.00	119,545,623.00	124,375,399.00
Assets out of Deferred Government Grants:									
Addition to Building (RBS)	45,115,053.00			45,115,053.00	-	-	-	45,115,053.00	45,115,053.00
Renovation of Electrical System & Facil	1,665,941.00			1,665,941.00	-	-	-	1,665,941.00	1,665,941.00
Augmentation of Acad. & Physical Infrastructure	247,314,100.48			247,314,100.48	-	-	-	247,314,100.48	247,314,100.48
Automation of Kitchen	1,549,155.00			1,549,155.00	-	-	-	1,549,155.00	1,549,155.00

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2014	As at March 31, 2014
	Construction of ED Centre	38,173,894.00	-	38,173,894.00	-	-	-	38,173,894.00
Construction of Institute Gate	3,356,464.00	-	3,356,464.00	-	-	-	3,356,464.00	3,356,464.00
Extension of Dispensary	14,566,050.00	-	14,566,050.00	-	-	-	14,566,050.00	14,566,050.00
M/R Colony - Building & Road	38,970.00	-	38,970.00	-	-	-	38,970.00	38,970.00
M/R Hostel - Building & Road	16,480.00	-	16,480.00	-	-	-	16,480.00	16,480.00
MCA Contingency	43,550.00	-	43,550.00	-	-	-	43,550.00	43,550.00
OBC Plan Grant	260,181.00	-	260,181.00	-	-	-	260,181.00	260,181.00
Renovation of Building Structure	14,274,464.00	12,346,006.00	26,620,470.00	-	-	-	26,620,470.00	14,274,464.00
Plan Grant	29,944,205.00	-	29,944,205.00	-	-	-	29,944,205.00	29,944,205.00
Hostel & Faculty Residence	563,083,051.00	14,473,625.00	577,556,676.00	-	-	-	577,556,676.00	563,083,051.00
Depreciation @2%	-	-	-	97,138,775.00	19,724,424.00	116,863,199.00	(116,863,199.00)	(97,138,775.00)
Sub Total	959,401,558.48	26,819,631.00	986,221,189.48	97,138,775.00	19,724,424.00	116,863,199.00	869,357,990.48	862,262,783.48
<i>Assets out of Institute Receipts</i>								
MMS Operating Cost	31,337.00	-	31,337.00	-	-	-	31,337.00	31,337.00
Placement Charges	97,638.00	-	97,638.00	-	-	-	97,638.00	97,638.00
Depreciation @ 2%	-	-	-	31,766.00	2,580.00	34,346.00	(34,346.00)	(31,766.00)
Sub Total	128,975.00	-	128,975.00	31,766.00	2,580.00	34,346.00	94,629.00	97,209.00
TOTAL	1,201,019,323.48	26,819,631.00	1,227,838,954.48	214,283,932.00	24,556,780.00	238,840,712.00	988,998,242.48	986,735,391.48

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS
C(2). PLANT, MACHINERY & EQUIPMENT

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2014	(Amount in ₹)
<u>Assets out of Capital Fund:</u>								
Academic Account	364,921.00	-	364,921.00	-	-	364,921.00	364,921.00	
Admission Committee (MMS)	24,400.00	-	24,400.00	-	-	24,400.00	24,400.00	
Applied Mechanics Department (U.G.)	16,100.00	-	16,100.00	-	-	16,100.00	16,100.00	
Asset Trf from TEQIP	114,256,984.00	-	114,256,984.00	-	-	114,256,984.00	114,256,984.00	
Civil Engineering Department (P.G.)	27,080.00	-	27,080.00	-	-	27,080.00	27,080.00	
Civil Engineering Department (U.G.)	39,317.00	-	39,317.00	-	-	39,317.00	39,317.00	
Class Pilot Project	8,060.00	-	8,060.00	-	-	8,060.00	8,060.00	
Computer Science Course	6,276,820.00	-	6,276,820.00	-	-	6,276,820.00	6,276,820.00	
Computer Science Department (U.G.)	216,876.00	-	216,876.00	-	-	216,876.00	216,876.00	
Development Centre Excellence Environment	303,650.00	-	303,650.00	-	-	303,650.00	303,650.00	
Development of Lawn & Gardening (PLAN-State)	18,347.00	-	18,347.00	-	-	18,347.00	18,347.00	
Development of Polymer Research Work	692,000.00	-	692,000.00	-	-	692,000.00	692,000.00	
Development of Robotics Facilities	182,600.00	-	182,600.00	-	-	182,600.00	182,600.00	
Development of Vision System Lab.	979,758.00	-	979,758.00	-	-	979,758.00	979,758.00	
Dynamo Meter	15,545.00	-	15,545.00	-	-	15,545.00	15,545.00	
Electronics Engineering Course	1,267,788.00	-	1,267,788.00	-	-	1,267,788.00	1,267,788.00	

Equipment under U.K. Grant	25,023,947.00	-	-	-	-	-	-	25,023,947.00	-	25,023,947.00	25,023,947.00
Excellence in REC	10,555,940.00	-	-	-	-	-	-	10,555,940.00	-	10,555,940.00	10,555,940.00
General Utility Equipment/ Upd. & Exp of Lab.	17,690,344.00	-	-	-	-	-	-	17,690,344.00	-	17,690,344.00	17,690,344.00
Gymkhana Games & Sports	68,200.00	-	-	-	-	-	-	68,200.00	-	68,200.00	68,200.00
Hostel Utensils	124,350.00	-	-	-	-	-	-	124,350.00	-	124,350.00	124,350.00
Improvement Facility on Guest House	450,296.00	-	-	-	-	-	-	450,296.00	-	450,296.00	450,296.00
Industrial Estate	943,664.00	-	-	-	-	-	-	943,664.00	-	943,664.00	943,664.00
Institute (U.G.)	96,409,291.00	-	-	-	-	-	-	96,409,291.00	-	96,409,291.00	96,409,291.00
M/R Institute (Lawn & Garden)	20,000.00	-	-	-	-	-	-	20,000.00	-	20,000.00	20,000.00
M/R Institute Building	39,293.00	-	-	-	-	-	-	39,293.00	-	39,293.00	39,293.00
MCA Contingencies	27,500.00	-	-	-	-	-	-	27,500.00	-	27,500.00	27,500.00
MCA Course	499,940.00	-	-	-	-	-	-	499,940.00	-	499,940.00	499,940.00
Mechanical Engineering Department (P.G.)	8,424.00	-	-	-	-	-	-	8,424.00	-	8,424.00	8,424.00
Mechanical Engineering Department (U.G.)	457,192.00	-	-	-	-	-	-	457,192.00	-	457,192.00	457,192.00
Mod. of Chemical Lab	690,150.00	-	-	-	-	-	-	690,150.00	-	690,150.00	690,150.00
Mod. of Geo Technical Lab.	589,295.00	-	-	-	-	-	-	589,295.00	-	589,295.00	589,295.00
Mod. of Instruments of Cent	23,362.00	-	-	-	-	-	-	23,362.00	-	23,362.00	23,362.00
Mod. of MED Deptt.	400,000.00	-	-	-	-	-	-	400,000.00	-	400,000.00	400,000.00
Nodal Centre	350,445.00	-	-	-	-	-	-	350,445.00	-	350,445.00	350,445.00
NRI	1,351,056.00	-	-	-	-	-	-	1,351,056.00	-	1,351,056.00	1,351,056.00
P.D.T.C.	134,008.00	-	-	-	-	-	-	134,008.00	-	134,008.00	134,008.00
P.G. Equipment	2,457,251.00	-	-	-	-	-	-	2,457,251.00	-	2,457,251.00	2,457,251.00
Pre Exam Training Centre	8,038.00	-	-	-	-	-	-	8,038.00	-	8,038.00	8,038.00
Product Engineering Course	1,868,242.00	-	-	-	-	-	-	1,868,242.00	-	1,868,242.00	1,868,242.00
Project Account	1,850,206.00	-	-	-	-	-	-	1,850,206.00	-	1,850,206.00	1,850,206.00
Pumping Set & Generator (Admission Committee)	38,030.00	-	-	-	-	-	-	38,030.00	-	38,030.00	38,030.00
REC-British University Collaboration	9,859,340.00	-	-	-	-	-	-	9,859,340.00	-	9,859,340.00	9,859,340.00

DESCRIPTION	GROSS BLOCK				DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2015	As at March 31, 2014	
Research & Development Cell	145,643.00	-	145,643.00	-	-	-	145,643.00	145,643.00	
Research Project & Others	1,742,954.00	-	1,742,954.00	-	-	-	1,742,954.00	1,742,954.00	
Soil Exploration & Foundation Design Centre	85,457.00	-	85,457.00	-	-	-	85,457.00	85,457.00	
Structural Testing & Designing	31,500.00	-	31,500.00	-	-	-	31,500.00	31,500.00	
Study on Mechanism Pollutant	43,000.00	-	43,000.00	-	-	-	43,000.00	43,000.00	
Training & Placement	71,537.00	-	71,537.00	-	-	-	71,537.00	71,537.00	
Xerox Photo Copier	133,300.00	-	133,300.00	-	-	-	133,300.00	133,300.00	
Depreciation @ 5%	-	-	-	220,615,935.00	14,944,072.00	235,560,007.00	(235,560,007.00)	(220,615,935.00)	
Sub Total	298,881,441.00	-	298,881,441.00	220,615,935.00	14,944,072.00	235,560,007.00	63,321,434.00	78,265,506.00	
Assets out of Deferred Government Grants:									
Addition to Equipments (RBS)	691,950.00	-	691,950.00	-	-	-	691,950.00	691,950.00	
Renovation of Electrical System & Facilities	1,852,709.00	-	1,852,709.00	-	-	-	1,852,709.00	1,852,709.00	
Applied Mechanics Dept.(P.G.)	167,444.00	-	167,444.00	-	-	-	167,444.00	167,444.00	
Applied Mechanics Dept.(U.G.)	93,503.00	-	93,503.00	-	-	-	93,503.00	93,503.00	
Augmentation of Acad. & Infrastructure	2,452,000.00	-	2,452,000.00	-	-	-	2,452,000.00	2,452,000.00	
Automation of Kitchen - Hostel	2,097,232.00	-	2,097,232.00	-	-	-	2,097,232.00	2,097,232.00	
Biotech Dept (U.G.)	14,910.00	-	14,910.00	-	-	-	14,910.00	14,910.00	
Chemistry Deptt. (U.G.)	34,490.00	-	34,490.00	-	-	-	34,490.00	34,490.00	
Civil Engg. Deptt.(U.G.)	68,230.00	-	68,230.00	-	-	-	68,230.00	68,230.00	
Civil Engg. Deptt.(P.G.)	41,695.00	-	41,695.00	-	-	-	41,695.00	41,695.00	
Computer Sc. Deptt. (U.G.)	7,275.00	-	7,275.00	-	-	-	7,275.00	7,275.00	
Electrical Engg. Deptt. (U.G.)	108,474.00	-	108,474.00	-	-	-	108,474.00	108,474.00	
Electronics Engg. Deptt. (U.G.)	23,088.00	-	23,088.00	-	-	-	23,088.00	23,088.00	

Electronics Engg. Deptt. (P.G.)	67,760.00	-	67,760.00	-	-	-	67,760.00	67,760.00
Mechanical Engineering Department (U.G.)	115,466.00	-	115,466.00	-	-	-	115,466.00	115,466.00
Mechanical Engineering Department (P.G.)	9,775.00	-	9,775.00	-	-	-	9,775.00	9,775.00
General Utility Equipment/ Upd & Exp of Lab.	104,644,662.69	54,447,388.00	159,092,050.69	-	-	-	159,092,050.69	104,644,662.69
Maint. Of Computer & Equipment	42,720.00	-	42,720.00	-	-	-	42,720.00	42,720.00
Maintenacne Institute (Lawn & Garden)	55,000.00	-	55,000.00	-	-	-	55,000.00	55,000.00
Maintenance & Repairs - Recurring (OBC)	1,474,200.00	-	1,474,200.00	-	-	-	1,474,200.00	1,474,200.00
OBC Plan Grant	32,653,633.00	-	32,653,633.00	-	-	-	32,653,633.00	32,653,633.00
Plan Grant	1,695,483.50	-	1,695,483.50	-	-	-	1,695,483.50	1,695,483.50
Physics Deptt.	43,941.00	-	43,941.00	-	-	-	43,941.00	43,941.00
Renovation of Electric System & Facilities	1,154,123.00	6,154,039.00	7,308,162.00	-	-	-	7,308,162.00	1,154,123.00
Research Grant	961,015.00	-	961,015.00	-	-	-	961,015.00	961,015.00
Addition to Equipments	34,840,633.00	69,609,725.00	104,450,358.00	-	-	-	104,450,358.00	34,840,633.00
Depreciation @ 5%	-	-	-	36,363,560.00	15,781,128.00	52,144,688.00	(52,144,688.00)	(36,363,560.00)
Sub Total	185,411,412.19	130,211,152.00	315,622,564.19	36,363,560.00	15,781,128.00	52,144,688.00	263,477,876.19	149,047,852.19
<u>Assets out of Institute Receipts</u>								
Raw Material & Consumable of Lab	20,790.00	-	20,790.00	-	-	-	20,790.00	20,790.00
Utencil charges	79,790.00	-	79,790.00	-	-	-	79,790.00	79,790.00
SMS/MBA/MMS Operating Cost	54,900.00	-	54,900.00	-	-	-	54,900.00	54,900.00
Depreciation @ 5%	-	-	-	54,811.00	7,774.00	62,585.00	(62,585.00)	(54,811.00)
Sub Total	155,480.00	-	155,480.00	54,811.00	7,774.00	62,585.00	92,895.00	100,669.00

Assets out of Subsidiaries Fund

ITEQIP II	6,576,788.00	5,237,939.00	11,814,727.00	-	-	-	11,814,727.00	6,576,788.00
Dean Academic Affairs	15,380.00	-	15,380.00	-	-	-	15,380.00	15,380.00
Project Account	42,125,805.00	5,500,859.00	47,626,664.00	-	-	-	47,626,664.00	42,125,805.00
R&C Cell	1,607,475.00	-	1,607,475.00	-	-	-	1,607,475.00	1,607,475.00
Sub Total	50,325,448.00	10,738,798.00	61,064,246.00	-	-	-	61,064,246.00	50,325,448.00

DESCRIPTION	GROSS BLOCK		DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2014
TOTAL	534,773,781.19	140,949,950.00	675,723,731.19	257,034,306.00	30,732,974.00	387,956,451.19	277,739,475.19

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS C(3). VEHICLES

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2015	As at March 31, 2014
Assets out of Capital Fund:								
Admission Committee	29,996.00	-	29,996.00	-	-	-	29,996.00	29,996.00
Cycle	850.00	-	850.00	-	-	-	850.00	850.00
Industrial Estate (Cycle)	550.00	-	550.00	-	-	-	550.00	550.00
Maint. & Rep.Institute -- Building & Road	4,740.00	-	4,740.00	-	-	-	4,740.00	4,740.00
Student Welfare Fund	300,359.00	-	300,359.00	-	-	-	300,359.00	300,359.00
Vehicle	4,097,962.00	-	4,097,962.00	-	-	-	4,097,962.00	4,097,962.00
Depreciation @ 10%	-	-	-	3,567,389.00	443,446.00	4,010,835.00	(4,010,835.00)	(3,567,389.00)
Sub Total	4,434,457.00	-	4,434,457.00	3,567,389.00	443,446.00	4,010,835.00	423,622.00	867,068.00
Assets out of Deferred Government Grants:								
General Utility Equipment	698,071.00	-	698,071.00	-	-	-	698,071.00	698,071.00
Landscaping & Gardening	842,284.00	-	842,284.00	-	-	-	842,284.00	842,284.00
Depreciation @ 10%	-	-	-	811,930.00	154,036.00	965,966.00	(965,966.00)	(811,930.00)
Sub Total	1,540,355.00	-	1,540,355.00	811,930.00	154,036.00	965,966.00	574,389.00	728,425.00
TOTAL	5,974,812.00	-	5,974,812.00	4,379,319.00	597,482.00	4,976,801.00	998,011.00	1,595,493.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS
C(4). FURNITURE & FIXTURES

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2015	As at March 31, 2014
<u>Assets out of Capital Fund:</u>								
Academic Account	7,452.00	-	7,452.00	-	-	-	7,452.00	7,452.00
Admission Committee	209,711.00	-	209,711.00	-	-	-	209,711.00	209,711.00
Admission Committee(MMS)	13,881.00	-	13,881.00	-	-	-	13,881.00	13,881.00
Applied Maths & SC (U.G.)	71,635.00	-	71,635.00	-	-	-	71,635.00	71,635.00
Applied Mechanics Deptt. (P.G.)	81,878.00	-	81,878.00	-	-	-	81,878.00	81,878.00
Assets Trf from TEQIP	2,236,348.00	-	2,236,348.00	-	-	-	2,236,348.00	2,236,348.00
Civil Engg. Deptt (PG)	35,200.00	-	35,200.00	-	-	-	35,200.00	35,200.00
Civil Engg. Deptt (UG)	9,800.00	-	9,800.00	-	-	-	9,800.00	9,800.00
Computer Science & Develop.	81,420.00	-	81,420.00	-	-	-	81,420.00	81,420.00
Dev. of High Speed Communication	38,991.00	-	38,991.00	-	-	-	38,991.00	38,991.00
Dev. of Robotics Facility	80,960.00	-	80,960.00	-	-	-	80,960.00	80,960.00
Dev. of VLSI Project	51,306.00	-	51,306.00	-	-	-	51,306.00	51,306.00
Dynamic Analysis Cutting	26,928.00	-	26,928.00	-	-	-	26,928.00	26,928.00
Elect. Engg. Department(P.G)	9,600.00	-	9,600.00	-	-	-	9,600.00	9,600.00
Electronics Engg. Deptt (UG)	46,742.00	-	46,742.00	-	-	-	46,742.00	46,742.00
Equipment of Dispensary	130,801.00	-	130,801.00	-	-	-	130,801.00	130,801.00
Examination Section	521,930.00	-	521,930.00	-	-	-	521,930.00	521,930.00
General Utility Equipment	230,260.00	-	230,260.00	-	-	-	230,260.00	230,260.00
Gymkhana Games & Sports	8,950.00	-	8,950.00	-	-	-	8,950.00	8,950.00
Hostel Furniture	2,524,472.00	-	2,524,472.00	-	-	-	2,524,472.00	2,524,472.00
Industrial Estate	40,248.00	-	40,248.00	-	-	-	40,248.00	40,248.00
Library	20,776,983.00	-	20,776,983.00	-	-	-	20,776,983.00	20,776,983.00
Library P.G.	1,801,095.00	-	1,801,095.00	-	-	-	1,801,095.00	1,801,095.00

M/R Colony Building	13,800.00	-	-	13,800.00	-	-	-	13,800.00	13,800.00
M/R Colony Furniture	10,000.00	-	-	10,000.00	-	-	-	10,000.00	10,000.00
M/R Hostel Furniture	5,002.00	-	-	5,002.00	-	-	-	5,002.00	5,002.00
M/R Institute Building	83,550.00	-	-	83,550.00	-	-	-	83,550.00	83,550.00
M/R Institute Furniture	92,705.00	-	-	92,705.00	-	-	-	92,705.00	92,705.00
Main. of Computer & Equip.	218,400.00	-	-	218,400.00	-	-	-	218,400.00	218,400.00
Mechanical Engg. Deptt(UG)	32,961.00	-	-	32,961.00	-	-	-	32,961.00	32,961.00
Misc. Exp. of Guest House (User)	102,612.00	-	-	102,612.00	-	-	-	102,612.00	102,612.00
MMS -Operating Cost	15,900.00	-	-	15,900.00	-	-	-	15,900.00	15,900.00
Nodal Centre	35,811.00	-	-	35,811.00	-	-	-	35,811.00	35,811.00
Nodal Centre	9,386.00	-	-	9,386.00	-	-	-	9,386.00	9,386.00
Parameter Milling	12,134.00	-	-	12,134.00	-	-	-	12,134.00	12,134.00
Placemnt Charges	232,060.00	-	-	232,060.00	-	-	-	232,060.00	232,060.00
Plan - Furniture	20,913,531.00	-	-	20,913,531.00	-	-	-	20,913,531.00	20,913,531.00
Power of Electronics & Engg. Lab.	14,781.00	-	-	14,781.00	-	-	-	14,781.00	14,781.00
Product Dev. & Training Centre	1,980.00	-	-	1,980.00	-	-	-	1,980.00	1,980.00
Project Account	9,136.00	-	-	9,136.00	-	-	-	9,136.00	9,136.00
Q.I.P. Poly	78,000.00	-	-	78,000.00	-	-	-	78,000.00	78,000.00
Reek-British Uty. Colabor.	257,171.00	-	-	257,171.00	-	-	-	257,171.00	257,171.00
Renovation of Building Structure	1,215,601.00	-	-	1,215,601.00	-	-	-	1,215,601.00	1,215,601.00

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2014	As at March 31, 2014
SC/ST Exams Training Centre	21,439.00	-	21,439.00	-	-	-	21,439.00	21,439.00
School of Non Formal Continuing	3,590.00	-	3,590.00	-	-	-	3,590.00	3,590.00
Soil Exploration & F.D. Centre	9,610.00	-	9,610.00	-	-	-	9,610.00	9,610.00
Student Club	79,350.00	-	79,350.00	-	-	-	79,350.00	79,350.00
Text Book Lending Bank	24,933.00	-	24,933.00	-	-	-	24,933.00	24,933.00
Depreciation @ 7.5%	-	-	-	44,961,501.00	3,939,753.00	48,901,254.00	(48,901,254.00)	(44,961,501.00)
Sub Total	52,530,034.00	-	52,530,034.00	44,961,501.00	3,939,753.00	48,901,254.00	3,628,780.00	7,568,533.00
Assets out of Deferred Government Grants:								
Applied Mechanics Deptt. (P.G.)	36,575.00	-	36,575.00	-	-	-	36,575.00	36,575.00
Applied Mechanics Deptt. (U.G.)	121,163.00	-	121,163.00	-	-	-	121,163.00	121,163.00
Biotech (U.G.)	22,246.00	-	22,246.00	-	-	-	22,246.00	22,246.00
Civil Engg. Deptt (U.G.)	14,077.00	-	14,077.00	-	-	-	14,077.00	14,077.00
Computer Sc. Deptt. (P.G.)	70,289.00	-	70,289.00	-	-	-	70,289.00	70,289.00
Computer Sc. Deptt. (U.G.)	114,172.00	-	114,172.00	-	-	-	114,172.00	114,172.00
Computer Science Course (Stationery)	298,658.00	-	298,658.00	-	-	-	298,658.00	298,658.00
Elect. Engg. Department (P.G.)	14,136.00	-	14,136.00	-	-	-	14,136.00	14,136.00
Elect. Engg. Department (U.G.)	67,986.00	-	67,986.00	-	-	-	67,986.00	67,986.00
Electronics Engg. Deptt (P.G.)	15,300.00	-	15,300.00	-	-	-	15,300.00	15,300.00
Electronics Engg. Deptt (U.G.)	29,314.00	-	29,314.00	-	-	-	29,314.00	29,314.00
Faculty/Staff Development Programme	14,207.00	-	14,207.00	-	-	-	14,207.00	14,207.00
General Utility Equipment	1,138,151.00	-	1,138,151.00	-	-	-	1,138,151.00	1,138,151.00
Information & Technology (U.G.)	24,328.00	-	24,328.00	-	-	-	24,328.00	24,328.00
M/R Colony Furniture	72,466.00	-	72,466.00	-	-	-	72,466.00	72,466.00
M/R Hostel Building & Road	201,154.00	-	201,154.00	-	-	-	201,154.00	201,154.00
M/R Institute Building & Road	38,981.00	-	38,981.00	-	-	-	38,981.00	38,981.00

M/R Hostel Furniture	63,418.00	-	63,418.00	-	-	-	63,418.00	63,418.00
M/R Institute Furniture	26,209.00	-	26,209.00	-	-	-	26,209.00	26,209.00
Main. of Computer & Equip.	49,292.00	-	49,292.00	-	-	-	49,292.00	49,292.00
MED Workshop	10,955.00	-	10,955.00	-	-	-	10,955.00	10,955.00
OBC Plan Grant	11,912,252.00	-	11,912,252.00	-	-	-	11,912,252.00	11,912,252.00
OBC Plan Grant	63,000.00	-	63,000.00	-	-	-	63,000.00	63,000.00
Physics Deptt. (U.G.)	35,753.00	-	35,753.00	-	-	-	35,753.00	35,753.00
Plan - Furniture	36,552,067.00	14,999,194.00	51,551,261.00	-	-	-	51,551,261.00	36,552,067.00
Renovation of Building Structure	11,418,640.00	11,521,125.00	22,939,765.00	-	-	-	22,939,765.00	11,418,640.00
Renovation of Electric System	57,500.00	-	57,500.00	-	-	-	57,500.00	57,500.00
Research Grant	39,637.00	-	39,637.00	-	-	-	39,637.00	39,637.00
Mechanical Engg. Deptt(UG)	35,000.00	-	35,000.00	-	-	-	35,000.00	35,000.00
Student Activity Centre	169,534.00	-	169,534.00	-	-	-	169,534.00	169,534.00
Depreciation @ 7.5%	-	-	-	24,897,175.00	6,693,508.00	31,590,683.00	(31,590,683.00)	(24,897,175.00)
Sub Total	62,726,460.00	26,520,319.00	89,246,779.00	24,897,175.00	6,693,508.00	31,590,683.00	57,656,096.00	37,829,285.00
<u>Assets out of Institute Receipts</u>								
Computer Stationery Charges	315,059.00	-	315,059.00	-	-	-	315,059.00	315,059.00
MMS/MBA Operating Cost	268,543.00	-	268,543.00	-	-	-	268,543.00	268,543.00
Placement Charges	141,457.00	-	141,457.00	-	-	-	141,457.00	141,457.00
Raw Marterial & Consumables of Lab	25,117.00	-	25,117.00	-	-	-	25,117.00	25,117.00
Depreciation @ 7.5%	-	-	-	416,801.00	56,263.00	473,064.00	(473,064.00)	(416,801.00)
Sub Total	750,176.00	-	750,176.00	416,801.00	56,263.00	473,064.00	277,112.00	333,375.00
<u>Assets out of Subsidiaries Fund</u>								
Alumni Association	-	52,977.61	52,977.61	-	-	-	52,977.61	-
Project Account	300,307.00	-	300,307.00	-	-	-	300,307.00	300,307.00
R&C Cell	65,806.00	133,568.00	199,374.00	-	-	-	199,374.00	65,806.00

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2015	As at March 31, 2014
School of Non Formal Continuing Education (SNFCE)	66,235.00	-	66,235.00	-	-	-	66,235.00	66,235.00
Sub Total	432,348.00	186,545.61	618,893.61	-	-	-	618,893.61	432,348.00
TOTAL	116,439,018.00	26,706,864.61	143,145,882.61	70,275,477.00	10,689,524.00	80,965,001.00	62,180,881.61	46,163,541.00

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET**

ANNEXURE 'C' OF SCH 4

**FIXED ASSETS
C(5). OFFICE EQUIPMENT**

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2015	As at March 31, 2014
<u>Assets out of Capital Fund:</u>								
Civil Engg. Department P.G.	31,200.00	-	31,200.00	-	-	-	31,200.00	31,200.00
Computer Sc. Deptt. (P.G)	9,280.00	-	9,280.00	-	-	-	9,280.00	9,280.00
Computer Sc. Deptt. (U.G)	141,894.00	-	141,894.00	-	-	-	141,894.00	141,894.00
Cordless & Telephone Set	20,575.00	-	20,575.00	-	-	-	20,575.00	20,575.00
Electrical Engg. Deptt. (U.G.)	30,188.00	-	30,188.00	-	-	-	30,188.00	30,188.00
EPABX	3,159,583.00	-	3,159,583.00	-	-	-	3,159,583.00	3,159,583.00
Examination Fees	66,420.00	-	66,420.00	-	-	-	66,420.00	66,420.00
Fax Machine	153,320.00	-	153,320.00	-	-	-	153,320.00	153,320.00
General Utility Equipment	998,915.00	-	998,915.00	-	-	-	998,915.00	998,915.00
Maint. of Computer & Equip(REC)	164,333.00	-	164,333.00	-	-	-	164,333.00	164,333.00
Nodal Centre	6,400.00	-	6,400.00	-	-	-	6,400.00	6,400.00
Placement Charges	168,443.00	-	168,443.00	-	-	-	168,443.00	168,443.00
Typewriter & Duplicating Machine	56,548.00	-	56,548.00	-	-	-	56,548.00	56,548.00
Typewriter (SC/ST Re-Exam Training Centre)	7,516.00	-	7,516.00	-	-	-	7,516.00	7,516.00
Updating & Expansion of Lab	462,000.00	-	462,000.00	-	-	-	462,000.00	462,000.00
Depreciation @ 7.5%	-	-	-	4,376,337.00	410,746.00	4,787,083.00	(4,787,083.00)	(4,376,337.00)
Sub Total	5,476,615.00	-	5,476,615.00	4,376,337.00	410,746.00	4,787,083.00	689,532.00	1,100,278.00
<u>Assets out of Deferred Government</u>								

(Amount in ₹)

<u>Grants:</u>										
Applied Mechanics Dept.(P.G.)	33,201.00	-	33,201.00	-	-	-	-	-	33,201.00	33,201.00
Civil Engg. Deptt. (P.G.)	99,920.00		99,920.00	-	-	-	-	-	99,920.00	99,920.00
Computer Sc. Deptt. (P.G)	16,490.00		16,490.00	-	-	-	-	-	16,490.00	16,490.00
Computer Sc. Deptt. (U.G)	17,760.00		17,760.00	-	-	-	-	-	17,760.00	17,760.00
Computer Science Course (Stationery)	65,660.00	-	65,660.00	-	-	-	-	-	65,660.00	65,660.00
Electrical Engg. Deptt. (P.G.)	25,499.00		25,499.00	-	-	-	-	-	25,499.00	25,499.00
Electrical Engg. Deptt. (U.G.)	9,000.00		9,000.00	-	-	-	-	-	9,000.00	9,000.00
General Utility Equipment	7,677,118.00	-	7,677,118.00	-	-	-	-	-	7,677,118.00	7,677,118.00
Library Operating Cost	69,243.00		69,243.00	-	-	-	-	-	69,243.00	69,243.00
Maint. of Computer & Equip	502,986.00	-	502,986.00	-	-	-	-	-	502,986.00	502,986.00
Maintenance & Repairs - Recurring (OBC)	200,720.00		200,720.00	-	-	-	-	-	200,720.00	200,720.00
MCA Contingency	24,900.00		24,900.00	-	-	-	-	-	24,900.00	24,900.00
SMS/MBA Op. cost	9,759.00		9,759.00	-	-	-	-	-	9,759.00	9,759.00
Renovation of Electric System & Facilities	7,990.00		7,990.00	-	-	-	-	-	7,990.00	7,990.00
Renovation of Building Structure	81,000.00	1,798,820.00	1,879,820.00	-	-	-	-	-	1,879,820.00	81,000.00
OBC Plan Grant	685,571.00	-	685,571.00	-	-	-	-	-	685,571.00	685,571.00
Plan Grant	1,855,877.05	-	1,855,877.05	-	-	-	-	-	1,855,877.05	1,855,877.05
Training & Placement	10,900.00		10,900.00	-	-	-	-	-	10,900.00	10,900.00
AMD U.G.	-		-	-	-	-	-	-	-	-
Student Activity Centre	19,830.00		19,830.00	-	-	-	-	-	19,830.00	19,830.00

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2015	As at March 31, 2014
Depreciation @ 7.5%	-	-	-	3,788,869.00	990,918.00	(4,779,787.00)	(4,779,787.00)	(3,788,869.00)
Sub Total	11,413,424.05	1,798,820.00	13,212,244.05	3,788,869.00	990,918.00	8,432,457.05	8,432,457.05	7,624,555.05
<u>Assets out of Institute Receipts</u>								
SMS/MBA/MMS Operating Cost	53,041.00	-	53,041.00	-	-	-	53,041.00	53,041.00
Depreciation @ 7.5%	-	-	-	20,545.00	3,978.00	(24,523.00)	(24,523.00)	(20,545.00)
Sub Total	53,041.00	-	53,041.00	20,545.00	3,978.00	28,518.00	28,518.00	32,496.00
<u>Assets out of Subsidiaries Fund</u>								
Dean Academic Affairs	76,070.00	-	76,070.00	-	-	-	76,070.00	76,070.00
Nodal Centre	62,405.00	-	62,405.00	-	-	-	62,405.00	62,405.00
R&C Cell	69,243.00	-	69,243.00	-	-	-	69,243.00	69,243.00
Dean Academic Affairs	52,520.00	97,650.00	150,170.00	-	-	-	150,170.00	52,520.00
Student Welfare Fund	289,674.00	-	289,674.00	-	-	-	289,674.00	289,674.00
Sub Total	549,912.00	97,650.00	647,562.00	-	-	-	647,562.00	549,912.00
TOTAL	17,492,992.05	1,896,470.00	19,389,462.05	8,185,751.00	1,405,642.00	9,591,393.00	9,798,069.05	9,307,241.05

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS
C(6). COMPUTER & PERIPHERALS

DESCRIPTION	GROSS BLOCK				DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2015	As at March 31, 2014	
<i>Assets out of Capital Fund:</i>									
Applied Maths & Science (U.G.)	79,575.00	-	79,575.00	-	-	-	79,575.00	79,575.00	
Applied Mechanics Dept.(U.G.)	4,650.00	-	4,650.00	-	-	-	4,650.00	4,650.00	
Area of Excellence	1,102,081.00	-	1,102,081.00	-	-	-	1,102,081.00	1,102,081.00	
Assessment of Land Use and Cover	84,820.00	-	84,820.00	-	-	-	84,820.00	84,820.00	
Assy of Land Use Cover Pattern	23,750.00	-	23,750.00	-	-	-	23,750.00	23,750.00	
Augmentation of Academic Infrastructure CSED	442,290.00	-	442,290.00	-	-	-	442,290.00	442,290.00	
Augmentation of Facilities -Signal	2,358.00	-	2,358.00	-	-	-	2,358.00	2,358.00	
Civil Engg. Deptt.(P.G.)	137,075.00	-	137,075.00	-	-	-	137,075.00	137,075.00	
Civil Engg. Deptt.(U.G)	13,650.00	-	13,650.00	-	-	-	13,650.00	13,650.00	
Computational Facility for Electric	64,900.00	-	64,900.00	-	-	-	64,900.00	64,900.00	
Computational Facility for Electric Engg.	260,000.00	-	260,000.00	-	-	-	260,000.00	260,000.00	
Computer (School of Non Formal)	45,200.00	-	45,200.00	-	-	-	45,200.00	45,200.00	
Computer Centre (Stay & Lab)	39,400.00	-	39,400.00	-	-	-	39,400.00	39,400.00	
Computer Graphic Work Station	8,890,000.00	-	8,890,000.00	-	-	-	8,890,000.00	8,890,000.00	
Computer Sc. Deptt(P.G.)	49,065.00	-	49,065.00	-	-	-	49,065.00	49,065.00	
Computer Sc. Deptt. (U.G.)	40,730.00	-	40,730.00	-	-	-	40,730.00	40,730.00	
Computer Science Course (Stationery)	14,720.00	-	14,720.00	-	-	-	14,720.00	14,720.00	
Computerisation of Estt. Section	1,990,000.00	-	1,990,000.00	-	-	-	1,990,000.00	1,990,000.00	
Dev of High Speed Communication Tem Lab.	16,200.00	-	16,200.00	-	-	-	16,200.00	16,200.00	
Dev. of Rapid Prototyping	61,200.00	-	61,200.00	-	-	-	61,200.00	61,200.00	

Dev. of Router Facilities	13,320.00	-	-	13,320.00	-	-	-	13,320.00	13,320.00
Dev. of VLSI Project	589,700.00	-	-	589,700.00	-	-	-	589,700.00	589,700.00
Development of Construction Mat. & Appro.	46,650.00	-	-	46,650.00	-	-	-	46,650.00	46,650.00
Development of M.I.S.	2,500,000.00	-	-	2,500,000.00	-	-	-	2,500,000.00	2,500,000.00
Dynamic Analysis Cutting Parameter	93,300.00	-	-	93,300.00	-	-	-	93,300.00	93,300.00
Dynamic Analysis Cutting Parameter	6,950.00	-	-	6,950.00	-	-	-	6,950.00	6,950.00
Electrical Engg. Deptt. (P.G.)	21,350.00	-	-	21,350.00	-	-	-	21,350.00	21,350.00
Electrical Engg. Deptt. (U.G.)	124,700.00	-	-	124,700.00	-	-	-	124,700.00	124,700.00
Electronics Engg. Deptt. (U.G.)	10,900.00	-	-	10,900.00	-	-	-	10,900.00	10,900.00
Examination Fees	365,584.00	-	-	365,584.00	-	-	-	365,584.00	365,584.00
Excellence in Rec.	7,425,931.00	-	-	7,425,931.00	-	-	-	7,425,931.00	7,425,931.00
Excellence in Reek (Net Working)	1,898,045.00	-	-	1,898,045.00	-	-	-	1,898,045.00	1,898,045.00
General Utility Equipment/ Upd.& Expa.of Lab.	4,064,343.00	-	-	4,064,343.00	-	-	-	4,064,343.00	4,064,343.00
High Speed Communication Lab.	129,025.00	-	-	129,025.00	-	-	-	129,025.00	129,025.00
High Speed Computer (WAN)	7,092,823.00	-	-	7,092,823.00	-	-	-	7,092,823.00	7,092,823.00
High Speed Internet Access	4,629,491.00	-	-	4,629,491.00	-	-	-	4,629,491.00	4,629,491.00
Information Tech (U.G.)	100,000.00	-	-	100,000.00	-	-	-	100,000.00	100,000.00
Infrastructure in Area of Weakness	6,564,080.00	-	-	6,564,080.00	-	-	-	6,564,080.00	6,564,080.00
Institutional Network Scheme	8,303,260.00	-	-	8,303,260.00	-	-	-	8,303,260.00	8,303,260.00
Library Operating Cost	24,600.00	-	-	24,600.00	-	-	-	24,600.00	24,600.00

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 2015	As at March 31, 2014
Maintenance of Computer & Equip. (Reek)	435,632.00	-	435,632.00	-	-	-	435,632.00	435,632.00
MCA Contingencies	12,733.00	-	12,733.00	-	-	-	12,733.00	12,733.00
Mechanical Engg. Deptt (P.G.)	277,400.00	-	277,400.00	-	-	-	277,400.00	277,400.00
Mechanical Engg. Deptt (U.G.)	115,000.00	-	115,000.00	-	-	-	115,000.00	115,000.00
Mod of Computational Facilities	17,249.00	-	17,249.00	-	-	-	17,249.00	17,249.00
Mod. of Survey & Remote Sensing Lab.	886,751.00	-	886,751.00	-	-	-	886,751.00	886,751.00
Nodal Centre	252,797.00	-	252,797.00	-	-	-	252,797.00	252,797.00
Office Contingency	6,000.00	-	6,000.00	-	-	-	6,000.00	6,000.00
Placement Charges	77,900.00	-	77,900.00	-	-	-	77,900.00	77,900.00
Project Account	949,406.00	-	949,406.00	-	-	-	949,406.00	949,406.00
Q.I.P. Poly	12,900.00	-	12,900.00	-	-	-	12,900.00	12,900.00
R.E.C.British University Collaboration.	10,364,040.00	-	10,364,040.00	-	-	-	10,364,040.00	10,364,040.00
Research & Consultancy	462,073.00	-	462,073.00	-	-	-	462,073.00	462,073.00
Training & Placement	92,691.00	-	92,691.00	-	-	-	92,691.00	92,691.00
Depreciation @ 20%	-	-	-	71,322,576.00	14,265,658.00	85,588,234.00	(85,588,234.00)	(71,322,576.00)
Sub Total	71,328,288.00	-	71,328,288.00	71,322,576.00	14,265,658.00	85,588,234.00	(14,259,946.00)	5,712.00
Assets out of Deferred Government Grants:								
Applied Maths & Science (U.G.)	41,940.00	-	41,940.00	-	-	-	41,940.00	41,940.00
Applied Mechanics Dept.(P.G.)	127,071.00	-	127,071.00	-	-	-	127,071.00	127,071.00
Applied Mechanics Dept.(U.G.)	62,400.00	-	62,400.00	-	-	-	62,400.00	62,400.00
Chemistry Deptt.	40,120.00	-	40,120.00	-	-	-	40,120.00	40,120.00
Civil Engg. Deptt.(P.G.)	309,440.00	-	309,440.00	-	-	-	309,440.00	309,440.00
Civil Engg. Deptt.(U.G.)	146,153.00	-	146,153.00	-	-	-	146,153.00	146,153.00
Computer Centre (Stay & Lab)	229,375.00	-	229,375.00	-	-	-	229,375.00	229,375.00
Computer Sc. Deptt. (P.G.)	71,354.00	-	71,354.00	-	-	-	71,354.00	71,354.00
Computer Sc. Deptt. (U.G.)	512,793.00	-	512,793.00	-	-	-	512,793.00	512,793.00

Computer Science Course (Stationery)	163,476.00	-	163,476.00	-	-	-	163,476.00	-
GIS Cell	33,090.00	-	33,090.00	-	-	-	33,090.00	33,090.00
Electrical Engg. Deptt. (P.G.)	46,088.00	-	46,088.00	-	-	-	46,088.00	46,088.00
Electrical Engg. Deptt. (U.G.)	102,960.00	-	102,960.00	-	-	-	102,960.00	102,960.00
Electronics Engg. Deptt. (U.G.)	253,737.00	-	253,737.00	-	-	-	253,737.00	253,737.00
General Utility Equipment/ Upd.& Expa.of Lab.	43,750,566.40	46,049,592.00	89,800,158.40	-	-	-	89,800,158.40	43,750,566.40
Humanities Deptt.	128,200.00	-	128,200.00	-	-	-	128,200.00	128,200.00
Information Tech (U.G.)	121,880.00	-	121,880.00	-	-	-	121,880.00	121,880.00
Internet Bandwidth - Internet Cabling	276,528.00	-	276,528.00	-	-	-	276,528.00	276,528.00
Library Operating Cost	34,950.00	-	34,950.00	-	-	-	34,950.00	34,950.00
Maint. Of Computer & Equipment	135,701.00	-	135,701.00	-	-	-	135,701.00	135,701.00
Maths Deptt.	9,300.00	-	9,300.00	-	-	-	9,300.00	9,300.00
MCA Contingency	285,382.00	-	285,382.00	-	-	-	285,382.00	285,382.00
Mechanical Engg. Deptt (P.G.)	107,127.00	-	107,127.00	-	-	-	107,127.00	107,127.00
Mechanical Engg. Deptt (U.G.)	419,783.00	-	419,783.00	-	-	-	419,783.00	419,783.00
MED Workshop	21,600.00	-	21,600.00	-	-	-	21,600.00	21,600.00
Networking	4,831,905.00	-	4,831,905.00	-	-	-	4,831,905.00	4,831,905.00
Research Grant	38,320.00	-	38,320.00	-	-	-	38,320.00	38,320.00
OBC Plan Grant	38,833,368.00	-	38,833,368.00	-	-	-	38,833,368.00	38,833,368.00
OBC Recurring Grant	613,025.00	-	613,025.00	-	-	-	613,025.00	613,025.00
Plan Grant	4,086,777.60	-	4,086,777.60	-	-	-	4,086,777.60	4,086,777.60
M/R Institute - Electric Maintenance	11,130.00	-	11,130.00	-	-	-	11,130.00	11,130.00

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2014	As at March 31, 2015
NCI & NICS Grant	829,779.00	-	829,779.00	-	-	-	-	829,779.00
SMS/MBA Op. cost	58,710.00	-	58,710.00	-	-	-	-	58,710.00
Renovation of Building Structure	50,325.90	-	50,325.90	-	-	-	-	50,325.90
Student Activity Centre	101,355.00	-	101,355.00	-	-	-	-	101,355.00
AMD U.G. - Capital (Computer & peripheral)	22,028.00	-	22,028.00	-	-	-	-	22,028.00
Utencil charges	13,000.00	-	13,000.00	-	-	-	-	13,000.00
M/R Maintenance of vehicles	11,130.00	-	11,130.00	-	-	-	-	11,130.00
Physics Deptt.	43,952.00	-	43,952.00	-	-	-	-	43,952.00
Depreciation @ 20%	-	-	-	83,358,914.00	28,605,082.00	111,963,996.00	(111,963,996.00)	(83,358,914.00)
Sub Total	96,975,819.90	46,049,592.00	143,025,411.90	83,358,914.00	28,605,082.00	111,963,996.00	31,061,415.90	13,616,905.90
<i>Assets out of Institute Receipts</i>								
Computer Stationery Charges	488,373.00	-	488,373.00	-	-	-	-	488,373.00
Examination Fees	499,154.00	-	499,154.00	-	-	-	-	499,154.00
MMS/MBA Operating Cost	88,597.00	-	88,597.00	-	-	-	-	88,597.00
Placement Charges	159,159.00	-	159,159.00	-	-	-	-	159,159.00
Raw Material & Consumable of Lab	85,575.00	-	85,575.00	-	-	-	-	85,575.00
Student Activity Centre	10,447.00	-	10,447.00	-	-	-	-	10,447.00
Depreciation @ 20%	-	-	-	1,294,265.00	266,261.00	1,560,526.00	(1,560,526.00)	(1,294,265.00)
Sub Total	1,331,305.00	-	1,331,305.00	1,294,265.00	266,261.00	1,560,526.00	(229,221.00)	37,040.00
<i>Assets out of Subsidiaries Fund</i>								
Alumni Association	65,193.00	27,965.64	93,158.64	-	-	-	-	93,158.64
Dean Academic Affairs	34,500.00	-	34,500.00	-	-	-	-	34,500.00
Industrial Estate	43,877.00	-	43,877.00	-	-	-	-	43,877.00
Nodal Centre	85,306.00	-	85,306.00	-	-	-	-	85,306.00
Project Account	6,555,940.00	311,440.00	6,867,380.00	-	-	-	-	6,867,380.00
R&C Cell	15,812,923.00	21,131.00	15,834,054.00	-	-	-	-	15,834,054.00
Sub Total	22,597,739.00	360,536.64	22,958,275.64	-	-	-	-	22,958,275.64
TOTAL	192,233,151.90	46,410,128.64	238,643,280.54	155,975,755.00	43,137,001.00	199,112,756.00	39,530,524.54	36,257,396.90

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
 SCHEDULE FORMING PART OF BALANCE SHEET**

ANNEXURE 'C' OF SCH 4

**FIXED ASSETS
 C(7). ELECTRIC INSTALLATIONS**

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK		(Amount in ₹)
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2015	As at March 31, 2014	
<u>Assets out of Capital Fund:</u>									
Air Conditioner (Dean Office)	112,562.00	-	112,562.00	-	-	-	-	112,562.00	112,562.00
Air Conditioner (Integrated Water Shed)	74,208.00	-	74,208.00	-	-	-	-	74,208.00	74,208.00
Air Conditioning Plant	209,472.00	-	209,472.00	-	-	-	-	209,472.00	209,472.00
Civil Engg. Deptt. (P.G.)	29,810.00	-	29,810.00	-	-	-	-	29,810.00	29,810.00
Computer Sc. Deptt.(U.G)	11,200.00	-	11,200.00	-	-	-	-	11,200.00	11,200.00
Cooler (Soil Exploration)	3,003.00	-	3,003.00	-	-	-	-	3,003.00	3,003.00
Electrification of CAC Building	30,000.00	-	30,000.00	-	-	-	-	30,000.00	30,000.00
Electrification of Computer Building	17,591.00	-	17,591.00	-	-	-	-	17,591.00	17,591.00
Electrification of Guest House	9,260.00	-	9,260.00	-	-	-	-	9,260.00	9,260.00
Electrification of Soil Exploration & F.D.	10,579.00	-	10,579.00	-	-	-	-	10,579.00	10,579.00
Furniture	15,000.00	-	15,000.00	-	-	-	-	15,000.00	15,000.00
General Utility Equipment	564,833.00	-	564,833.00	-	-	-	-	564,833.00	564,833.00
Hostel Fans	301,808.00	-	301,808.00	-	-	-	-	301,808.00	301,808.00
M/R Institute --Electric	29,050.00	-	29,050.00	-	-	-	-	29,050.00	29,050.00
M/R Institute Furniture	48,900.00	-	48,900.00	-	-	-	-	48,900.00	48,900.00
Project Account	244,177.00	-	244,177.00	-	-	-	-	244,177.00	244,177.00
Renovation of Electrical System & Facilities	4,805,815.00	-	4,805,815.00	-	-	-	-	4,805,815.00	4,805,815.00
School of Non Formal & Continuing Education	45,943.00	-	45,943.00	-	-	-	-	45,943.00	45,943.00
Stabilizer (Integrated Water Shed Management)	9,960.00	-	9,960.00	-	-	-	-	9,960.00	9,960.00
T.V. Set (Student Welfare Fund)	87,509.00	-	87,509.00	-	-	-	-	87,509.00	87,509.00
Tape Recorder (I.I.N.)	3,290.00	-	3,290.00	-	-	-	-	3,290.00	3,290.00
Depreciation @ 5%	-	-	-	5,009,953.00	333,199.00	5,343,152.00	5,343,152.00	(5,343,152.00)	(5,009,953.00)

Sub Total	6,663,970.00	-	6,663,970.00	5,009,953.00	333,199.00	5,343,152.00	1,320,818.00	1,654,017.00
<i>Assets out of Deferred Government Grants:</i>								
Air Conditioning of MP Hall & Seminar Hall	14,946,027.00	-	14,946,027.00	-	-	-	14,946,027.00	14,946,027.00
Applied Mechanics Dept.(P.G.)	97,688.00	-	97,688.00	-	-	-	97,688.00	97,688.00
Applied Mechanics Dept.(U.G.)	127,080.00	-	127,080.00	-	-	-	127,080.00	127,080.00
Automation of Kitchen Hostel	55,000.00	-	55,000.00	-	-	-	55,000.00	55,000.00
Biotech (U.G.)	16,720.00	-	16,720.00	-	-	-	16,720.00	16,720.00
Civil Engg. Deptt. (P.G.)	76,577.00	-	76,577.00	-	-	-	76,577.00	76,577.00
Civil Engg. Deptt. (U.G.)	129,737.00	-	129,737.00	-	-	-	129,737.00	129,737.00
Computer Sc. Deptt.(P.G.)	44,970.00	-	44,970.00	-	-	-	44,970.00	44,970.00
Computer Sc. Deptt.(U.G.)	18,601.00	-	18,601.00	-	-	-	18,601.00	18,601.00
Computer Science Course Stationary	23,950.00	-	23,950.00	-	-	-	23,950.00	23,950.00
Electrical Engg. Deptt. (P.G.)	24,750.00	-	24,750.00	-	-	-	24,750.00	24,750.00
Electrical Engg. Deptt. (U.G.)	73,049.00	-	73,049.00	-	-	-	73,049.00	73,049.00
Electronics Engg. Deptt. (P.G.)	24,400.00	-	24,400.00	-	-	-	24,400.00	24,400.00

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2014	As at March 31, 2014
Electronics Engg. Deptt. (U.G.)	203,800.00	-	203,800.00	-	-	203,800.00	203,800.00	203,800.00
General Utility Equipment	10,764,682.00	-	10,764,682.00	-	-	10,764,682.00	10,764,682.00	10,764,682.00
Humanities Deptt	8,850.00	-	8,850.00	-	-	8,850.00	8,850.00	8,850.00
Landscaping & Gardening	74,300.00	-	74,300.00	-	-	74,300.00	74,300.00	74,300.00
Library Operating Cost	4,900.00	-	4,900.00	-	-	4,900.00	4,900.00	4,900.00
M/R Institute Building & Road	25,990.00	-	25,990.00	-	-	25,990.00	25,990.00	25,990.00
M/R Institute - Electric Maint.	165,638.00	-	165,638.00	-	-	165,638.00	165,638.00	165,638.00
Maint. of Computer & Equipment	1,287,798.00	-	1,287,798.00	-	-	1,287,798.00	1,287,798.00	1,287,798.00
MCA Contingency	48,715.00	-	48,715.00	-	-	48,715.00	48,715.00	48,715.00
Mech. Engg. Department (P.G.)	58,150.00	-	58,150.00	-	-	58,150.00	58,150.00	58,150.00
Mech. Engg. Department (U.G.)	71,856.00	-	71,856.00	-	-	71,856.00	71,856.00	71,856.00
MED Workshop-UG	5,500.00	-	5,500.00	-	-	5,500.00	5,500.00	5,500.00
OBC Plan Grant	24,452,377.00	-	24,452,377.00	-	-	24,452,377.00	24,452,377.00	24,452,377.00
Plan Grant	1,983,494.00	-	1,983,494.00	-	-	1,983,494.00	1,983,494.00	1,983,494.00
Physics Deptt. (U.G.)	13,500.00	-	13,500.00	-	-	13,500.00	13,500.00	13,500.00
Production Engg. Deptt. (U.G.)	51,000.00	-	51,000.00	-	-	51,000.00	51,000.00	51,000.00
Renovation of Building Structure	7,829,467.00	-	7,829,467.00	-	-	7,829,467.00	7,829,467.00	7,829,467.00
Renovation of Electrical System & Facilities	39,341,819.00	568,883.00	39,910,702.00	-	-	39,910,702.00	39,341,819.00	39,341,819.00
Research Grant	103,811.00	-	103,811.00	-	-	103,811.00	103,811.00	103,811.00
Depreciation @ 5%	-	-	-	43,447,902.00	5,136,154.00	(48,584,056.00)	(43,447,902.00)	(43,447,902.00)
Sub Total	102,154,196.00	568,883.00	102,723,079.00	43,447,902.00	5,136,154.00	54,139,023.00	58,706,294.00	58,706,294.00
<u>Assets out of Institute Receipts</u>								
Computer Stationery Charges	108,200.00	-	108,200.00	-	-	108,200.00	108,200.00	108,200.00
MMS Operating Cost	19,900.00	-	19,900.00	-	-	19,900.00	19,900.00	19,900.00
Placement Charges	99,000.00	-	99,000.00	-	-	99,000.00	99,000.00	99,000.00

Depreciation @ 5%						130,643.00	11,355.00	141,998.00	(141,998.00)	(130,643.00)
Sub Total	227,100.00	-	-	227,100.00	-	130,643.00	11,355.00	141,998.00	85,102.00	96,457.00
<u>Assets out of Subsidiaries Fund</u>										
Project Account	362,271.00	188,874.00	551,145.00	-	-	-	-	-	551,145.00	362,271.00
R&C Cell	18,775.00	-	18,775.00	-	-	-	-	-	18,775.00	18,775.00
Student Welfare Fund	123,920.00	-	123,920.00	-	-	-	-	-	123,920.00	123,920.00
Sub Total	504,966.00	188,874.00	693,840.00	-	-	-	-	-	693,840.00	504,966.00
TOTAL	109,550,232.00	757,757.00	110,307,989.00	48,588,498.00	5,480,708.00	54,069,206.00	56,238,783.00	60,961,734.00		

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET**

FIXED ASSETS C(8). LIBRARY BOOKS

DESCRIPTION	GROSS BLOCK		DEPRECIATION		NET BLOCK	
	As at April 01, 2014	Addition (Deductions)	As at March 31, 2015	As at April 01, 2014	As at March 31, 2015	As at March 31, 2014
<i>Assets out of Capital Fund:</i>						
Assets Trf from TEQIP	21,613,554.00	-	21,613,554.00	-	-	21,613,554.00
Book Bank	45,560.00	-	45,560.00	-	-	45,560.00
Book Bank for SC/ST Student	241,004.00	-	241,004.00	-	-	241,004.00
Library Books & Journal (Non Plan) PG	6,038,118.00	-	6,038,118.00	-	-	6,038,118.00
Library Books & Journal (Non Plan) UG	15,752,434.00	-	15,752,434.00	-	-	15,752,434.00
Library Books & Journal (Plan)	4,940,816.00	-	4,940,816.00	-	-	4,940,816.00
Library Fee	1,009,136.00	-	1,009,136.00	-	-	1,009,136.00
Others	2,948,391.00	-	2,948,391.00	-	-	2,948,391.00
P.D.T.C.	30,000.00	-	30,000.00	-	-	30,000.00
Research & Development Cell	1,622.00	-	1,622.00	-	-	1,622.00
SC/ST Pre Exams Training Centre	107,728.00	-	107,728.00	-	-	107,728.00
School of Non Formal & Continuing Education	29,224.00	-	29,224.00	-	-	29,224.00
Soil Exploration & F.D. Centre	5,664.00	-	5,664.00	-	-	5,664.00
Structural Testing & Designing Centre	1,478.00	-	1,478.00	-	-	1,478.00
Depreciation @ 10%	-	-	-	52,538,293.00	5,276,473.00	(52,538,293.00)
Sub Total	52,764,729.00	-	52,764,729.00	52,538,293.00	5,276,473.00	226,436.00
<i>Assets out of Deferred Government Grants:</i>						
Faculty/Staff Development	9,967.00	-	9,967.00	-	-	9,967.00

Programme														
Library (P.G.)	1,803,353.00	-	1,803,353.00	-	-	-	-	-	-	1,803,353.00				1,803,353.00
Research Grant	155,925.00	-	155,925.00	-	-	-	-	-	-	155,925.00				155,925.00
Library Books	6,190,485.00	-	6,190,485.00	-	-	-	-	-	-	6,190,485.00				6,190,485.00
Library Books & Journal (Non Plan) PG	22,340,516.00		22,340,516.00	-	-	-	-	-	-	22,340,516.00				22,340,516.00
Library Journal & Periodicals	31,022,426.00		31,022,426.00	-	-	-	-	-	-	31,022,426.00				31,022,426.00
Library TLB	428,262.00	-	428,262.00	-	-	-	-	-	-	428,262.00				428,262.00
Addition to library books and journals	69,773,775.00	226,609.00	70,000,384.00	-	-	-	-	-	-	70,000,384.00				69,773,775.00
Depreciation @ 10%	-	-	-	78,919,072.00	13,195,132.00	92,114,204.00	13,195,132.00	92,114,204.00	92,114,204.00	(92,114,204.00)				(78,919,072.00)
Sub Total	131,724,709.00	226,609.00	131,951,318.00	78,919,072.00	13,195,132.00	92,114,204.00	13,195,132.00	92,114,204.00	92,114,204.00	39,837,114.00				52,805,637.00
<u>Assets out of Institute Receipts</u>														
Library Fee	3,089,680.00	-	3,089,680.00	-	-	-	-	-	-	3,089,680.00				3,089,680.00
Depreciation @ 10%	-	-	-	3,068,910.00	308,968.00	3,377,878.00	308,968.00	3,377,878.00	3,377,878.00	(3,377,878.00)				(3,068,910.00)
Sub Total	3,089,680.00	-	3,089,680.00	3,068,910.00	308,968.00	3,377,878.00	308,968.00	3,377,878.00	3,377,878.00	(288,198.00)				20,770.00
<u>Assets out of Subsidiaries Fund</u>														
Project Account	715,863.00	75,588.00	791,451.00	-	-	-	-	-	-	791,451.00				715,863.00
TEQIP II	13,861,076.00	-	13,861,076.00	-	-	-	-	-	-	13,861,076.00				13,861,076.00
Sub Total	14,576,939.00	75,588.00	14,652,527.00	-	-	-	-	-	-	14,652,527.00				14,576,939.00
TOTAL	202,156,057.00	302,197.00	202,458,254.00	134,526,275.00	18,780,573.00	153,306,848.00	18,780,573.00	153,306,848.00	153,306,848.00	49,151,406.00				67,629,782.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'C' OF SCH 4

FIXED ASSETS
C(9). OTHER FIXED ASSETS

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2014	(Amount in ₹)
<u>Assets out of Capital Fund:</u>								
Augmentation of Academic Infrastructure	70,883.00	-	70,883.00	-	-	70,883.00	70,883.00	
Capital Goods	7,590.00	-	7,590.00	-	-	7,590.00	7,590.00	
Carpets	75,687.00	-	75,687.00	-	-	75,687.00	75,687.00	
Civil Engg. Department P.G.	19,980.00	-	19,980.00	-	-	19,980.00	19,980.00	
Development of Lawn & Gardens	231,657.00	-	231,657.00	-	-	231,657.00	231,657.00	
Elect. Engg. Department(P.G)	8,700.00	-	8,700.00	-	-	8,700.00	8,700.00	
Excellence in REC (Library Collection Development)	11,484,666.00	-	11,484,666.00	-	-	11,484,666.00	11,484,666.00	
Excellence in REC (R & D Supports)	1,639,347.00	-	1,639,347.00	-	-	1,639,347.00	1,639,347.00	
Furniture	37,780.00	-	37,780.00	-	-	37,780.00	37,780.00	
General Utility Equipment	109,000.00	-	109,000.00	-	-	109,000.00	109,000.00	
Maint. & Rep.Institute -- Electric	4,980.00	-	4,980.00	-	-	4,980.00	4,980.00	
Mech. Engg. Department (P.G.)	4,900.00	-	4,900.00	-	-	4,900.00	4,900.00	
Office Contingency	17,500.00	-	17,500.00	-	-	17,500.00	17,500.00	
Strengthening of Infrastructure Facilities	576,492.00	-	576,492.00	-	-	576,492.00	576,492.00	
Depreciation @ 7.5%	-	-	-	12,040,452.00	1,071,687.00	13,112,139.00	(12,040,452.00)	
Sub Total	14,289,162.00	-	14,289,162.00	12,040,452.00	1,071,687.00	13,112,139.00	2,248,710.00	
<u>Assets out of Deferred Government Grants:</u>								
Applied Mechanics Dept.(P.G.)	44,837.00	-	44,837.00	-	-	44,837.00	44,837.00	

Applied Mechanics Dept.(U.G.)	77,262.00	-	-	77,262.00	-	-	77,262.00	-	77,262.00	77,262.00
B.O.G. & Other Meetings	6,165.00	-	-	6,165.00	-	-	6,165.00	-	6,165.00	6,165.00
Chemistry Deptt	33,825.00	-	-	33,825.00	-	-	33,825.00	-	33,825.00	33,825.00
Civil Engg. Department (U.G)	45,121.50	-	-	45,121.50	-	-	45,121.50	-	45,121.50	45,121.50
Civil Engg. Department (P.G.)	9,030.00	-	-	9,030.00	-	-	9,030.00	-	9,030.00	9,030.00
Computer Center	23,760.00	-	-	23,760.00	-	-	23,760.00	-	23,760.00	23,760.00
Comupter Sc. Deptt. UG	44,946.00	-	-	44,946.00	-	-	44,946.00	-	44,946.00	44,946.00
Computer Sc. Engg. Deptt (P.G.)	19,260.00	-	-	19,260.00	-	-	19,260.00	-	19,260.00	19,260.00
Computer Science Course (Stationery)	23,452.00	-	-	23,452.00	-	-	23,452.00	-	23,452.00	23,452.00
Development of Lawn & Gardens	63,046.00	-	-	63,046.00	-	-	63,046.00	-	63,046.00	63,046.00
Electronics Engg. Deptt (P.G.)	11,250.00	-	-	11,250.00	-	-	11,250.00	-	11,250.00	11,250.00
General Utility Equipment	35,506,116.10	26,044,110.00	-	61,550,226.10	-	-	61,550,226.10	-	61,550,226.10	35,506,116.10
Landscaping & Gardening	150,182.00	-	-	150,182.00	-	-	150,182.00	-	150,182.00	150,182.00
Library Operating Cost	12,400.00	-	-	12,400.00	-	-	12,400.00	-	12,400.00	12,400.00
M/R Institute Building & Road	67,090.00	-	-	67,090.00	-	-	67,090.00	-	67,090.00	67,090.00
Maint. & Rep. Hostel - Building & Road	113,882.00	-	-	113,882.00	-	-	113,882.00	-	113,882.00	113,882.00
Maint. Of Computer & Equipment	190,914.00	-	-	190,914.00	-	-	190,914.00	-	190,914.00	190,914.00
Maintenance & Repairs - Recurring (OBC)	271,409.00	-	-	271,409.00	-	-	271,409.00	-	271,409.00	271,409.00
MCA Operating Cost	101,797.00	-	-	101,797.00	-	-	101,797.00	-	101,797.00	101,797.00

DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
	As at April 01, 2014	Additions/ (Deductions)	As at March 31, 2015	As at April 01, 2014	Depreciation during the year	As at March 31, 2015	As at March 31, 2015	As at March 31, 2014
Mech. Engg. Department (U.G.)	207,565.00	-	207,565.00	-	-	-	207,565.00	207,565.00
MED Workshop	9,980.00	-	9,980.00	-	-	-	9,980.00	9,980.00
OBC Plan Grant	1,769,904.00	-	1,769,904.00	-	-	-	1,769,904.00	1,769,904.00
OBC Plan Grant	239,660.00	-	239,660.00	-	-	-	239,660.00	239,660.00
Renovation of Building Structure	3,715,128.00	976,047.00	4,691,175.00	-	-	-	4,691,175.00	3,715,128.00
Renovation of Electrical System & Facilities	23,400.00	-	23,400.00	-	-	-	23,400.00	23,400.00
Research Grant	51,870.00	-	51,870.00	-	-	-	51,870.00	51,870.00
Student Club	45,235.00	-	45,235.00	-	-	-	45,235.00	45,235.00
Utencil Charges	40,283.00	-	40,283.00	-	-	-	40,283.00	40,283.00
Student Activity Center	24,964.00	-	24,964.00	-	-	-	24,964.00	24,964.00
Depreciation @ 7.5%	-	-	-	3,430,347.00	5,247,292.00	8,677,639.00	(8,677,639.00)	(3,430,347.00)
Sub Total	42,943,733.60	27,020,157.00	69,963,890.60	3,430,347.00	5,247,292.00	8,677,639.00	61,286,251.60	39,513,386.60
<u>Assets out of Institute Receipts</u>								
MMS Operating Cost	24,850.00	-	24,850.00	-	-	-	24,850.00	24,850.00
Placement Charges	101,797.00	-	101,797.00	-	-	-	101,797.00	101,797.00
Utencil Charges	10,440.00	-	10,440.00	-	-	-	10,440.00	10,440.00
Depreciation @ 7.5%	-	-	-	87,762.00	10,282.00	98,044.00	(98,044.00)	(87,762.00)
Sub Total	137,087.00	-	137,087.00	87,762.00	10,282.00	98,044.00	39,043.00	49,325.00
<u>Assets out of Subsidiaries Fund</u>								
Student Welfare Fund	1,015,359.00	-	1,015,359.00	-	-	-	1,015,359.00	1,015,359.00
Sub Total	1,015,359.00	-	1,015,359.00	-	-	-	1,015,359.00	1,015,359.00
TOTAL	58,385,341.60	27,020,157.00	85,405,498.60	15,558,561.00	6,329,261.00	21,887,822.00	63,517,676.60	42,826,780.60

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

SCHEDULE 5- INVESTMENTS FROM EARMARKED/ ENDOWMENT FUNDS

(Amount in ₹)

INVESTMENTS FROM EARMARKED/ ENDOWMENT FUNDS	CURRENT YEAR	PREVIOUS YEAR
In Central Government Securities	-	-
In State Government Securities		
Other approved Securities	-	-
Shares	-	-
Debentures and Bonds		
Term Deposits with Banks		
Others (to be specified)		
(Refer Annexure D)	228,187,573.12	254,349,981.00
<u>TOTAL</u>	228,187,573.12	254,349,981.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'D' OF SCH 5

INVESTMENTS
D-1' - INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS

Particulars	Opening Balance as on 01/04/2014	Deposited during the Year	Enchased during the Year	As at March 31, 2015		As at March 31, 2014
General Provident Fund:						
Treasury Account	1,007,349.00	-	-	1,007,349.00		1,007,349.00
Fixed Deposit with Bank	181,246,372.00	-	-	181,246,372.00		181,246,372.00
Savings Bank Account	(1,367,939.00)	49,038,189.00	37,865,516.00	9,804,734.00		(1,367,939.00)
Interest Accrued on FDR-GPF	5,232,322.00	-	-	5,232,322.00	197,290,777.00	5,232,322.00
Contributory Provident Fund:						
Savings Bank Account	1,174,854.00	508,964.12		1,683,818.12		1,174,854.00
Fixed Deposit Receipt	7,000,000.00	-	-	7,000,000.00		7,000,000.00
Interest Accrued on FDR-CPF	1,281,267.00	-	-	1,281,267.00	9,965,085.12	1,281,267.00
New Pension Scheme:						
Savings Bank Account/ Auto Sweep	58,775,756.00	23,393,617.00	61,237,662.00		20,931,711.00	58,775,756.00
TOTAL	254,349,981.00	72,940,770.12	99,103,178.00		228,187,573.12	254,349,981.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

SCHEDULE 6- INVESTMENTS OTHERS

(Amount in ₹)

<u>INVESTMENTS - OTHERS</u>	CURRENT YEAR	PREVIOUS YEAR
In Central Government Securities	-	-
In State Government Securities	-	-
Other approved Securities	-	-
Shares	-	-
Debentures and Bonds	-	-
Term Deposits with Banks	-	-
TOTAL	-	-

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

SCHEDULE 7- CURRENT ASSETS

<u>PARTICULARS</u>	CURRENT YEAR	PREVIOUS YEAR
	(Amount in ₹)	
1. Stock:		
a) Stores and Spares (Stock of Consumables & Other Materials)	345,543.00	345,543.00
b) Loose Tools	-	-
c) Publications	-	-
d) Laboratory Chemicals, consumables and glass ware		
e) Building Material		
f) Electric Material		
g) Stationery		
h) Water Supply Material		
2. Sundry Debtors:		
a) Debts Outstanding for a period exceeding six months- Industrial Estate	10,325,580.93	11,325,975.43
b) Others	-	-
3. Cash and Bank Balances (to be further classified as pertaining to earmarked fund or otherwise)		
<u>Earmarked Funds</u>		
<u>a) With Scheduled Banks:</u>		
On Current Accounts	-	-
On Term Deposit Account	-	-
On Saving Accounts (Refer Annexure E (1))	6,395,521.00	6,151,138.00
<u>b) With non-Scheduled Banks:</u>		
On Current Accounts	-	-
On Term Deposit Account	-	-

On Saving Accounts	-	-
<u>Non-Earmarked Funds</u>		
<u>a) With Scheduled Banks:</u>		
On Current Accounts (Refer Annexure E (2))	132,347,075.71	309,522,205.48
On Term Deposit Account (Refer Annexure E (3))	684,615,641.00	420,029,914.00
On Saving Accounts (Refer Annexure E (4))	190,329,585.70	142,885,309.94
<u>b) With non-Scheduled Banks:</u>		
On Current Accounts	-	-
On Term Deposit Account	-	-
On Saving Accounts	-	-
4. Post Office – Saving Accounts	-	-
TOTAL (A)	1,024,358,947.34	890,260,085.85

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE 'E' OF SCH 7

CURRENT ASSETS
E1- EARMARKED FUNDS- BALANCE WITH BANKS - (ON SAVINGS & AUTOSWEEP ACCOUNT)

Particulars	Current Year 2014-15			Previous Year 2013-2014		
	Balance with Bank	Balance in Hand	Total Cash & Bank Balance	Balance with Bank	Balance in Hand	Total Cash & Bank Balance
<u>INSTITUTE:</u>						
Corpus Fund - SBI SB	3,836,992.00	-	3,836,992.00	3,690,375.00	-	3,690,375.00
Staff Development Fund- SBI SB	1,279,149.00	-	1,279,149.00	1,230,271.00	-	1,230,271.00
Development/Renewal Fund- SBI SB	639,690.00	-	639,690.00	615,246.00	-	615,246.00
Maintenance Fund- SBI SB	639,690.00	-	639,690.00	615,246.00	-	615,246.00
TOTAL	6,395,521.00	-	6,395,521.00	6,151,138.00	-	6,151,138.00

E-2 - NON-EARMARKED FUNDS: BALANCE WITH BANKS - (ON CURRENT ACCOUNT)

(Amount in ₹)

Particulars	Current Year 2014-15			Previous Year 2013-2014		
	Balance with Bank	Balance in Hand	Total Cash & Bank Balance	Balance with Bank	Balance in Hand	Total Cash & Bank Balance
INSTITUTE:						
Cash in Hand		9,995.00	9,995.00			
with State Bank of India - Power Jyoti	5,531.45	-	5,531.45	3,922,679.22	-	3,922,679.22
with State Bank of India - Fees A/ c	11,300,000.00	-	11,300,000.00	302,448,897.00	-	302,448,897.00
with State Bank of India - Fees A/ Cnew	114,190,645.00		114,190,645.00			
SUB TOTAL	125,496,176.45	9,995.00	125,506,171.45	306,371,576.22	-	306,371,576.22
SUBSIDIARY FUNDS:						
Admission Committee	704,312.00	-	704,312.00	704,312.00	-	704,312.00
Industrial Estate	6,064,447.26	-	6,064,447.26	2,402,184.26	-	2,402,184.26
Kitchen Project	6,272.00	-	6,272.00	6,272.00	-	6,272.00
Sponsored Gold Medal	65,873.00	-	65,873.00	37,861.00	-	37,861.00
SUB TOTAL	6,840,904.26	-	6,840,904.26	3,150,629.26	-	4,829,574.26
TOTAL	132,337,080.71	9,995.00	132,347,075.71	309,522,205.48	-	311,201,150.48

E-3 - NON-EARMARKED FUNDS- TERM DEPOSITS

Particulars	Opening Balance as on 01/04/2014	Deposited during the Year	Enchased during the Year	As at March 31, 2015		As at March 31, 2014
STITUTE:						
TDR -- Institute - Vijaya Bank		-	-	-		
TDR -- Institute - SBI	90,000,000.00	189,367,320.00	-	279,367,320.00		90,000,000.00
TDR -- Institute - Bank of Baroda	53,048,536.00	41,940,273.00	-	94,988,809.00		53,048,536.00
TDR -- Out of Caution Money	10,227,804.00	-	-	10,227,804.00	384,583,933.00	10,227,804.00
SUBSIDIARY FUNDS:						
T.D.R. with S.N.F.C.E.	9,800,000.00	2,189.00	-	9,802,189.00		9,800,000.00
T.D.R. with Student Welfare Fund	12,582,050.00	-	-	12,582,050.00		12,582,050.00
T.D.R. with Industrial Estate	27,300,000.00	2,766,016.00	-	30,066,016.00		27,300,000.00
T.D.R. with G.K. Agarwal Trust	300,000.00	-	-	300,000.00		300,000.00
T.D.R. with Alumni Association	5,152,560.00	188,945.00	-	5,341,505.00		5,152,560.00
T.D.R. with R&C Cell	177,820,502.00	27,294,434.00		205,114,936.00		177,820,502.00
T.D.R. with Sponsored Gold Medal	388,488.00	-	-	388,488.00		388,488.00
T.D.R. with Project Account	33,409,974.00	3,026,550.00	-	36,436,524.00	300,031,708.00	33,409,974.00
TOTAL	420,029,914.00	264,585,727.00	-	684,615,641.00		420,029,914.00

**E-4- NON-EARMARKED FUNDS - BALANCE WITH BANKS -
(ON SAVINGS & AUTOSWEEP ACCOUNT):**

Particulars	(Amount in ₹)	
	As at March 31, 2015	As at March 31, 2014
INSTITUTE:		
with Vijaya Bank	66,688,925.37	95,939,685.61
SUB TOTAL	66,688,925.37	95,939,685.61
SUBSIDIARY FUNDS:		
Text Book Lending Bank	481,083.00	444,555.00
I.T.N. Course	-	-
G.K. Agarwal Trust	209,620.00	180,286.00
Nodal Centre	81,700.00	78,527.00
Product Development & Training Centre	186,218.00	178,987.00
Student Welfare Fund	6,190,808.00	3,255,072.00
School of Non Formal & Cont.		4,763,013.00
Education	5,028,252.00	
Alumni Association	3,579,763.50	2,337,754.50
TEQIP - II	39,459,519.00	4,278,311.00
Research & Consultancy Cell	6,389,793.55	10,576,963.55
Dean Academic Affairs	44,614,721.50	11,487,242.50
Project Account	17,419,181.78	9,364,912.78
SUB TOTAL	123,640,660.33	46,945,624.33
TOTAL	190,329,585.70	142,885,309.94

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

SCHEDULE 8 -- LOANS, ADVANCES AND DEPOSITS

		(Amount in ₹)	
		CURRENT YEAR	PREVIOUS YEAR
1. Advances to employees: (Non-interest bearing)			
a)	Salary	-	-
b)	Festival	3,970,200.00	3,970,200.00
c)	Medical Advance	-	-
d)	Other (to be specified) (Refer Annexure F (1) &(2)	11,300,851.00	13,608,341.00
2. Long Term Advances to employees: (Interest bearing)			
a)	Vehicle loan	-	-
b)	Home loan	-	-
c)	Others (to be specified)	-	-
3. Advances and other amounts recoverable in cash or in kind or for value to be received:			
a)	On Capital Account (Refer Annexure F (3))	37,392,350.00	40,833,073.00
b)	to suppliers	-	-
c)	Others (Refer Annexure F (4))	10,748,136.64	15,720,938.64
4. Prepaid Expenses			
a)	Insurance	-	-
b)	Other expenses		
	Library & E-Journals	-	17,120,922.75
5. Deposits			
a)	Telephone	-	-
b)	Lease Rent	-	-
c)	Electricity	-	-
d)	AICTE, if applicable	-	-

e) Others (to be specified)	-	-
6. Income Accrued:		
a) On Investments from Earmarked/ Endowment Funds (Refer Annexure F (5))	18,236,803.00	43,144,139.00
b) On Investments-Others	-	-
c) On Loans and Advances	-	-
d) Others	-	-
(includes income due unrealized-Rs.....)		
7. Other receivable		
a) Debit balances in Sponsored Projects	-	-
b) Debit balances in Fellowship & Scholarship (Refer Annexure F (6))	6,388,465.00	6,075,542.00
c) Grants Recoverable	210,398,000.00	-
d) Excess Utilisation of Grant (Refer Annexure B(4))(A)	156,835,042.70	204,383,554.57
e) Other receivables from UGC	-	-
8. Claims Receivable	-	-
Tax Deducted at Source FY 2014-15	24,004.00	
Tax Deducted at Source FY 2013-14	973,180.00	
Tax Deducted at Source-Industrial Estate	109,398.00	
Tax Deducted at Source-Alumini Association	40,510.00	
TOTAL	456,416,940.34	344,856,710.96

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF BALANCE SHEET

ANNEXURE F OF SCH 8

LOANS, ADVANCES AND DEPOSITS

Particulars	Opening Balance as on 01/04/2014	Advances given during the Current Year 2014-15	Advances Adjusted during the Current Year 2014-15	Journal Entry Adjustments	As at March 31, 2015	As at March 31, 2014
F(1). Advances to Employees						
1. Salary						
Institute- Imprest earlier years	806,930.00	-	-	-	806,930.00	806,930.00
Institute-Staff Advances - F-(i)	5,731,923.00	18,046,032.00	20,466,739.00	-	3,311,216.00	5,731,923.00
Institute- Permanent Imprest - F-(ii)	635,750.00	348,000.00	240,060.00	-	743,690.00	635,750.00
TOTAL	7,174,603.00	18,394,032.00	20,706,799.00	-	4,861,836.00	7,174,603.00
F(2). Advances - Others						
Institute-Interest recoverable from GPF	970,000.00	-	-	-	970,000.00	970,000.00
Institute-Science City- Recoverable Expense	92,325.00	-	-	-	92,325.00	92,325.00
Institute-CCB Fund	69,385.00	-	-	-	69,385.00	69,385.00
Institute-LC Debit on account R&C	3,996,267.00	-	-	-	3,996,267.00	3,996,267.00
Institute-NPS Payment	499,260.00	5,277.00	-	-	504,537.00	499,260.00
Subsidiary-Miscellaneous Advances	806,501.00	-	-	-	806,501.00	806,501.00
TOTAL	6,433,738.00	5,277.00	-	-	6,439,015.00	6,433,738.00

(Amount in ₹)						
Particulars	Opening Balance as on 01/04/2014	Advances given during the Current Year 2014-15	Advances Adjusted during the Current Year 2014-15	Journal Entry Adjustments	As at March 31, 2015	As at March 31, 2014
F-3. Advances and other amounts recoverable in cash or in kind or for value to be received – On Capital Acco						
Pending Adjustment with Contractors (Earlier years)	45,705.00	-	-	-	45,705.00	45,705.00
Advances for Fixed Assets & Revenue Expenses - F-(iii)	40,787,368.00	11,032,902.00	14,473,625.00	-	37,346,645.00	40,787,368.00
TOTAL	40,833,073.00	11,032,902.00	14,473,625.00	-	37,392,350.00	40,833,073.00
F(4). Advances and other amounts recoverable in cash or in kind or for value to be rec						
Subsidiary- Alumni Association - Advance & Imprest	5,000.00	-	-	-	5,000.00	5,000.00
Subsidiary-Dean Academics - Advances	50,000.00	36,000.00	45,950.00	-	40,050.00	50,000.00
Subsidiary-Project Account - Advance & Imprest	389,904.00	271,228.00	280,731.00	-	380,401.00	389,904.00
R&C Cell - Advances & Imprest	2,499,049.00	891,400.00	2,031,674.00	-	1,358,775.00	2,499,049.00
R&C Cell - Receivable against Uncleared Cheque	11,650.00	90,980.00	-	-	102,630.00	11,650.00
R&C Cell - Receivable from Project Account	154,018.00	-	-	-	154,018.00	154,018.00
R&C Cell - Loan/Cont. to GPF A/c towards Interest	7,800,000.00	-	-	-	7,800,000.00	7,800,000.00
SNFCE - Advance & Imprest	-	145,550.00	5,310.00	-	140,240.00	-
SNFCE - Receivable against FDP	1,486,074.00	-	-	-	1,486,074.00	1,486,074.00

Subsidiary-Student Welfare Fund - Advance	86,607.00	86,220.00	-	-	172,827.00	86,607.00
Subsidiary-Student Welfare Fund - LIC	37,636.00	-	-	-	37,636.00	37,636.00
TEQIP - Advances Recoverable	5,012,211.00	5,353,760.00	9,255,971.00	-	1,110,000.00	5,012,211.00
Loan to Tanzanian Student Project	251,000.00	-	-	-	251,000.00	251,000.00
Loan to Student Subsidiary Funds	91,000.00	-	-	-	91,000.00	91,000.00
Recoverable Deposit- Institute- G.I. for Students	1,205,366.64	1,528,752.00	1,586,040.00	-	1,148,078.64	1,205,366.64
Recoverable Deposit- Institute-Group Insurance Scheme	(176,632.00)	1,059,855.00	1,230,871.00	-	(347,648.00)	(176,632.00)
Recoverable Deposit- Institute-Security & Earnest Money	(3,189,051.00)	-	-	-	(3,189,051.00)	(3,189,051.00)
Recoverable Deposit- Subsidiaries-Security & Earnest Money	7,106.00	-	-	-	7,106.00	7,106.00
TOTAL	15,720,938.64	9,463,745.00	14,436,547.00	-	10,748,136.64	15,720,938.64

F(5). Income Accrued - On Investments from Earmarked/Endowment Funds

Particulars	As at March 31, 2014	Transactions during the year		As at March 31, 2015	As at March 31, 2014
		Debit	Credit		
<u>On Term Deposit</u>					
<u>Institute:</u>					
I.D.R. - Institute	42,703,521.00	27,151,945.00	52,059,281.00	17,796,185.00	42,703,521.00
<u>Subsidiary Funds:</u>					
T.D.R. with Alumni Association	36,582.00			36,582.00	36,582.00
T.D.R. with Sponsored Gold Medal	2,435.00	-	-	2,435.00	2,435.00
<u>Student Welfare Fund</u>					
T.D.R. with Student Welfare Fund	109,675.00	-	-	109,675.00	109,675.00
T.D.R. out of Caution Money	291,926.00	-	-	291,926.00	291,926.00
TOTAL	43,144,139.00	27,151,945.00	52,059,281.00	18,236,803.00	43,144,139.00

F(6). DEBIT BALANCES IN FELLOWSHIP & SCHOLARSHIP

HEAD OF ACCOUNT	(Amount in ₹)					
	OPENING BALANCE AS ON 01/04/2014		TRANSACTION DURING THE YEAR 2014-15		CLOSING BALANCE AS ON 31/03/2015	
	DEBIT	CREDIT	DEBIT	CREDIT	DEBIT	CREDIT
Board of Apprenticeship Training	997,593.00		103,598.00	-	1,101,191.00	-
CSIR Delhi	556,985.00		-	-	556,985.00	-
Fellowship (MHRD)	147,489.00		-	-	147,489.00	-
IC CCT (Dr. A.K. Misra)	344,820.00		-	-	344,820.00	-
ICSSR Project	192,000.00		-	-	192,000.00	-
National Seminar (HSS Department)	140,017.00			-	140,017.00	-
PHE Stip & Contingency	45,485.00			-	45,485.00	-
QIP Polytechnique	3,282,956.00		230,925.00	-	3,513,881.00	-
Seminar on Electric Power Conversion	72,458.00		-	-	72,458.00	-
UPCST Domestic Waste Water Treatment	79,402.00		-	-	79,402.00	-
Workshop Virtual Instrumentation & Its Application	1,556.00		-	-	1,556.00	-
Fellowship (CSIR)	214,781.00		402,466.00	424,066.00	193,181.00	-
TOTAL	6,075,542.00		736,989.00	424,066.00	6,388,465.00	-

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALI AHABAD
GROUPING FORMING PART OF THE SCHEDULE TO THE BALANCE SHEET

ANNEXURE F-1 OF SCH 8

LOANS, ADVANCES AND DEPOSITS

F-(ii) - Permanent Imprest to Employees

Sl. No.	Particulars	Opening Balance	During the year		Closing Balance
			Debit	Credit	
1	Abhay Raj Singh (Imprest)	5,000.00			5,000.00
2	A.K Sachan (Imprest)	10,000.00			10,000.00
3	A.K Sing Ae(E) (Imprest)	10,000.00			10,000.00
4	A K Singh Ced (Imprest)	5,000.00		5,000.00	-
5	A.K Srivastava Ae(M) Imprest	20,000.00		20,000.00	-
6	Anil Kumar (Imprest)	15,000.00			15,000.00
7	Animesh Ojha(Imprest)		15,000.00		15,000.00
8	Anjana Pandey Imprest		15,000.00		15,000.00
9	Anuj Jain (Imprest)	10,000.00			10,000.00
10	Asheesh Kumar Singh (Imprest)	15,000.00			15,000.00
11	Ashutosh Pandey (Imprest)		15,000.00		15,000.00
12	B D Tripathi (Imprest)	10,000.00			10,000.00
13	Deepesh Tiwari (Imprest)	2,000.00			2,000.00
14	Dinesh Chandra (Imprest)	2,000.00		2,000.00	-
15	Dr Asheesh Kr Singh(Imprest)	15,000.00			15,000.00
16	Dr. M.M. Gore (Imprest)	5,000.00		5,000.00	-
17	Dr N.D Pandey (Imprest)		2,000.00		2,000.00
18	Dr. Naresh Kumar	10,000.00			10,000.00
19	Dr Paul Samuel (Imprest)	10,000.00		10,000.00	-
20	Dr P.K Dutta (Imprest)	10,000.00		10,000.00	-
21	Dr. P.K Mishra (Imprest)	5,000.00			5,000.00
22	Dr Rakesh Kumar (Imprest)	15,000.00		15,000.00	-
23	Dr Sadhana Sachan (Imprest)		10,000.00		10,000.00
24	Sanjay Chaubey(Imprest)	5,000.00		5,000.00	-

Sl.No.	Particulars	Opening Balance	During the year		Closing Balance
			Debit	Credit	
25	Dr Shailendra Kumar Mishra Imprest	15,000.00			15,000.00
26	G.P. Sahu Imprest		15,000.00		15,000.00
27	Gautam Ghosh Imprest	15,000.00			15,000.00
28	Geetika (Imprest)	10,000.00			10,000.00
29	Kk Shukla Ch.Prot.(Imprest)	2,000.00		2,000.00	-
30	Kk Shukla Udc (Imprest)	5,000.00		5,000.00	-
31	K.N Pandey (Imprest)	10,000.00			10,000.00
32	K N Singh (Imprest)	5,000.00	15,000.00		20,000.00
33	Mayank Pandey (Imprest)	15,000.00		15,000.00	-
34	Mdsingh (Imprest)	15,000.00		15,000.00	-
35	Mukesh Kumar (Imprest)	15,000.00		15,000.00	-
36	Nand Kishore (Imprest)		10,000.00		10,000.00
37	Neeraj Tyagi (Imprest)	10,000.00			10,000.00
38	Niroj Banerjee (Imprest)	5,000.00			5,000.00
39	N.K. Singh (Imprest)		15,000.00		15,000.00
40	Piyali Ghosh (Imprest)	15,000.00		310.00	14,690.00
41	Pramod Kumar Yadav(Imprest)		15,000.00		15,000.00
42	P.R. Pal (Imprest)		15,000.00		15,000.00
43	Rajeev Srivastava (Imprest)	15,000.00			15,000.00
44	Rajeev Tripathi Head (Imprest)	10,000.00			10,000.00
45	Raj Mohan Singh (Imprest)	15,000.00		15,000.00	-
46	Rama Shankar (Imprest)	10,000.00		10,000.00	-
47	Ramesh Pandey (Imprest)	10,000.00			10,000.00
48	Ravi Prakash Amd (Imprest)	5,000.00			5,000.00
49	Rc Vaisya Imprest	10,000.00	10,000.00	10,000.00	10,000.00
50	Ritesh Kumar Sahu (Imprest)	15,000.00			15,000.00
51	R.K. Nagaria(Imprest)		15,000.00		15,000.00
52	R.K Singh (Imprest)	9,000.00	6,000.00	15,000.00	-
53	Rk Srivastava P& D (Imprest)	15,000.00			15,000.00
54	R.K Tripathi (Imprest)	10,000.00			10,000.00
55	R P Tiwari (Imprest)		10,000.00		10,000.00
56	Tiwari Proctor (Imprest)		10,000.00		10,000.00
57	Tiwari Prof & Head (Imprest)	25,000.00		15,000.00	10,000.00

Sl. No.	Particulars	Opening Balance	During the year		Closing Balance
			Debit	Credit	
58	R.S. Yadav (Imprest)		10,000.00		10,000.00
59	Samir Sraswati(Imprest)		15,000.00		15,000.00
60	Sanjiv Banerjee(Imprest)		15,000.00		15,000.00
61	Sarvesh Kumar Tripathi Pio(Imprest)	2,000.00			2,000.00
62	Shiva Kant Mishra (Imprest)		5,000.00	5,000.00	-
63	Shivesh Sharma(Imprest)	50,000.00	25,000.00	15,000.00	60,000.00
64	Shri Sanjay Singh (Imprest)	5,000.00			5,000.00
65	Shweta Ranjan (E.O.)	15,000.00			15,000.00
66	Shweta Tripathi(Imprest)		15,000.00		15,000.00
67	Siraj Alam(Imprest)	20,000.00		10,000.00	10,000.00
68	Siraj Alam Warden (Imprest)		15,000.00		15,000.00
69	S.J Pawar A/P(Imprest)	2,000.00			2,000.00
70	S.K Duggul (Imprest)	5,000.00			5,000.00
71	S.K.Tiwari (Imprest)	(1,000.00)			(1,000.00)
72	Sn Pandey (Imprest)	10,000.00	5,000.00		15,000.00
73	S.P Verma (Imprest)	2,000.00			2,000.00
74	Sri Asim Mukherjee (Imprest)	15,000.00			15,000.00
75	Sri Har Nath Kar (Imprest)	18,750.00		8,750.00	10,000.00
76	S.S Narvi (Imprest)		10,000.00		10,000.00
77	Suneeta Agarwal (Imprest)	12,000.00		12,000.00	-
78	Sushil Kumar Imprest		10,000.00		10,000.00
79	Sushil Kumar Warden (Imprest)		15,000.00		15,000.00
80	U.S Sharma (Imprest)	25,000.00			25,000.00
81	V.K Srivastava (Imprest)		15,000.00		15,000.00
	Grand Total	6,45,750.00	3,48,000.00	2,40,060.00	7,53,690.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
GROUPING FORMING PART OF THE SCHEDULE TO THE BALANCE SHEET

ANNEXURE F-3 OF SCH 8

LOANS, ADVANCES AND DEPOSITS
F-(iii) - Advance for Fixed Assets & Revenue Expenses

Sl. No.	Particulars	Opening Balance	During the year		Closing Balance
			Debit	Credit	
1	Anjali Electronics, Allid	8,100.00	-	-	8,100.00
2	Bombay Machinery, Allahabad	14,490.00	-	-	14,490.00
3	Comcare Enterprises, Allahabad	147,022.00	-	-	147,022.00
4	Chemico Instruments P. Ltd. ND	7,000.00	-	-	7,000.00
5	Carrier Air con Ltd., Daman	43,346.00	-	-	43,346.00
6	Elite Furniture, Allahabad	423,162.00	-	-	423,162.00
7	EDS Technologies, Bangalore	110,000.00	-	-	110,000.00
8	Autometer Alliance Ltd., Noida	68,360.00	-	-	68,360.00
9	Total Presentation Devices (P) Ltd., ND	168,000.00	-	-	168,000.00
10	Richa Medical Agencies, Allid	(21.00)	-	-	(21.00)
11	Point Stationery, Allid	13,189.00	-	-	13,189.00
12	Indian Institute of Foreign Trade, Delhi	14,935.00	-	-	14,935.00
13	Indian Oil Corporation, Allahabad	10,962.00	-	-	10,962.00
14	Jamuna Marketing P. Ltd.	187,034.00	-	-	187,034.00
15	Lab India Instrument, Thane	11,703.00	-	-	11,703.00
16	Lalji Enterprises, Allahabad	5,000.00	-	-	5,000.00
17	Scientech Technologies Pvt. Ltd., ND	9,208.00	-	-	9,208.00
18	Bhargava Engg. Works Ltd.	60,800.00	-	-	60,800.00
19	HCL Infosystems Ltd., Pondicherry	460,634.00	-	-	460,634.00
20	Tritech Enterprises, Allahabad	87,903.00	-	-	87,903.00
21	Mangalam Service Station (Advance)		63,790.00		63,790.00
22	Matra Distributor, Kanpur	6,615.00	-	-	6,615.00
23	Minimax Electronics, Bangalore	13,208.00	-	-	13,208.00
24	Mack Electrical & Equipment, Nasik	65,350.00	-	-	65,350.00
25	Pericom Systems, Allid	175,620.00	-	-	175,620.00

Sl. No.	Particulars	Opening Balance	During the year		Closing Balance
			Debit	Credit	
26	Ranial Graphics, Allid	92,388.00	-	-	92,388.00
27	Sharda Enterprises, Allahabad	303,290.00	-	-	303,290.00
28	Spic Macay		10,000.00	-	10,000.00
29	Shivam Paints, Allahabad	35,696.00	-	-	35,696.00
30	Surgico Medicare Agency, Allid	6,250.00	-	-	6,250.00
31	Prayag Electric Co., Allid	5,625.00	-	-	5,625.00
32	Quartz Marketing Systems, Knp	108,061.00	-	-	108,061.00
33	Project Officer Neda, Allid	135,143.00	-	-	135,143.00
34	Surekha Sales Pvt Ltd		8,905.00	-	8,905.00
35	S.R.K. Systems, Allid	5,600.00	-	-	5,600.00
36	Jay Pee Cement, Allid	34,500.00	-	-	34,500.00
37	Sahani Refrigeration, Allahabad	78,690.00	-	-	78,690.00
38	Shaan Traders, Allid	129,736.00	-	-	129,736.00
39	Tele Links, Allid	7,065.00	-	-	7,065.00
40	Bhushan & Bhushan, Delhi	125,928.00	-	-	125,928.00
41	Peco Cooling Towers, New Delhi	213,390.00	-	-	213,390.00
42	Batra Electronic Cottage, Allid	23,490.00	-	-	23,490.00
43	Gaur Electricals, Allid	68,580.00	-	-	68,580.00
44	S.N. Aqua Systems, Delhi	69,360.00	-	-	69,360.00
45	Hydraulic Engg. Instrument, Delhi	280,155.00	-	-	280,155.00
46	Prism Cement, Allid	147,400.00	-	-	147,400.00
47	Voltas Ltd., Lucknow	534,232.00	-	-	534,232.00
48	Rites Ltd., Gurgaon	11,634,810.00	8,216,857.00	14,473,625.00	5,378,042.00
49	Rai & Co. Allid	120,697.00	-	-	120,697.00
50	Versatile Constructions, Allahabad	2,422,000.00	-	-	2,422,000.00
51	Tata Motors Ltd, New Delhi	-	-	-	-
52	F.A. & CAO N Rly, New Delhi	22,112,506.00	-	-	22,112,506.00
53	Balmer Lawrie & Co.	-	1,235,000.00	-	1,235,000.00
54	CPWD	-	1,498,350.00	-	1,498,350.00
55	M/S Bhargav Tyres	(18,844.00)	-	-	(18,844.00)
	Grand Total	40,787,368.00	11,032,902.00	14,473,625.00	37,346,645.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
SCHEDULE 9 - ACADEMIC RECEIPTS

<u>PARTICULARS</u>	<u>CURRENT YEAR</u>	<u>PREVIOUS YEAR</u>
FEE FROM STUDENTS		
A. Academic		
<u>Tuition Fees:</u>		
Tuition Fees B.Tech	138,145,000.00	112,230,000.00
Tuition Fees MBA	2,952,000.00	3,492,000.00
Tuition Fees MCA	12,215,000.00	3,060,000.00
Tuition Fees M.Tech	39,970,000.00	30,625,000.00
Tuition Fees Ph.D	5,775,000.00	833,000.00
Tuition Fees M.Sc.	285,000.00	247,250.00
Tuition Fees MSW	105,000.00	193,500.00
<u>Admission fee:</u>		
Registration Fees M.Tech	193,500.00	205,700.00
Registration Fees MBA	43,600.00	48,800.00
Registration Fees MCA	59,700.00	59,100.00
Registration Fees PhD	77,000.00	14,800.00
Registration Fees MSW	1,400.00	
Registration Fees MSC	3,800.00	
Registration Fees B.Tech	739,500.00	737,500.00
Day Fees B.Tech	1,104,800.00	1,101,800.00
Day Fees M.Tech	342,525.00	360,825.00
Day Fees MBA	56,600.00	64,400.00
Day Fees MCA	104,325.00	103,425.00
Day Fees Ph.D	222,350.00	130,550.00
Day Fees MSC	5,700.00	
Day Fees MSW	2,100.00	
<u>Enrolment Fee</u>	180,700.00	180,000.00
<u>Library fee</u>	3,284,016.00	3,177,516.00
<u>Laboratory fee:</u>		

Lab Fees B.Tech	2,050,750.00	2,045,750.00
Lab Fees M.Tech	541,250.00	510,750.00
Lab Fees MBA	79,000.00	92,000.00
Lab Fees MCA	154,250.00	152,750.00
Lab Fees Ph.D	376,500.00	223,500.00
Lab Fees MSC	9,500.00	
Lab Fees MSW	3,500.00	
<u>Syllabus fee</u>	504,000.00	93,300.00
Total (A)	209,587,366.00	159,983,216.00
B. Examinations		
<u>Admission test fee</u>	-	-
<u>Mark sheet, certificate fee</u>	-	-
<u>Entrance examination fee</u>		
Total (B)	-	-
C. Other fees		
<u>Identity card fee</u>	161,000.00	153,587.00
<u>Fine/Miscellaneous fee</u>	-	
<u>Medical fee</u>	2,920,000.00	2,813,562.00
<u>Transportation fee:</u>		
Bus Charges from Student	308,000.00	271,058.00
Private Use of Vehicle	1,237,915.00	968,300.00
<u>Hostel fee</u>		
<u>Development Fees</u>	1,157,450.00	1,104,200.00
<u>Magazine Fees</u>	574,700.00	553,400.00
<u>Placement Charges</u>	2,265,590.00	2,201,690.00
<u>Student Welfare Fees</u>	604,090.00	577,130.00
Total (C)	9,228,745.00	8,642,927.00
D. Sale of publications		
Sale of syllabus and Question Paper, etc.	-	-
Sale of prospectus including admission forms	-	-
Total (D)	-	-
E. Other Academic Receipts		
Total (E)	-	-
GRAND TOTAL (A+B+C+D+E)	218,816,111.00	168,626,143.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

SCHEDULE 10- GRANTS & DONATIONS

<u>PARTICULARS</u>	CURRENT YEAR		PREVIOUS YEAR	
(Irrevocable Grants & Subsidies Received)				
1) Central Government				
<u>Non-Plan</u>				
Grant-in-aid released during the year	440,000,000.00		390,000,000.00	
Add: Unutilised balance of Grants as on 01.04.2014	142,442,123.00		214,717,959.00	
	582,442,123.00		604,717,959.00	
Less: Unutilised balance of Grants as on 31.03.2015	168,536,403.93	413,905,719.07	142,442,123.00	462,275,836.00
<u>Plan</u>				
Grant-in-aid released during the year	490,398,000.00		242,500,000.00	
Add/(Less): Unutilised / (Excess Utilised) balance of Grants as on 01.04.2014	(204,383,554.57)		95,538,816.00	
	286,014,445.43		338,038,816.00	
Add/(Less): Excess Utilised / (Unutilised) balance of Grants as on 01.04.2014	156,835,042.70	442,849,488.13	204,383,554.57	542,422,370.57
Sub Total		856,755,207.20		1,004,698,206.57
Less: Amount utilised for capital Expenditure from Grant		265,132,092.13		334,658,765.48
Net Amount utilised for Revenue Expenditure		591,623,115.07		670,039,441.09
<u>Apportioned amount of Grants/Fund towards Depreciation</u>				
From Deferred Government Grants	97,894,446.00		93,685,188.00	
From Capital Fund	45,554,852.00	143,449,298.00	22,211,964.00	115,897,152.00
TOTAL		735,072,413.07		785,936,593.09

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**

SCHEDULE 11- INCOME FROM INVESTMENTS

Income from Earmarked/Endowment Funds	CURRENT YEAR	PREVIOUS YEAR
1) <u>Interest</u>		
a) On Govt. Securities	-	-
b) Other Bonds/ Debentures	-	-
2) <u>Interest on Term deposits</u>		
3) Income accrued but not due on Term Deposits/ Interest bearing advances to employees(Refer Schedule 3)	7,050,975.00	5,815,601.00
4) <u>Interest on Saving Bank Accounts</u>	-	-
5) <u>Others</u>		
TOTAL	7,050,975.00	5,815,601.00
<u>ANSFERRED TO EARMARKED/ENDOWMENT FUNDS</u>	7,050,975.00	5,815,601.00

Income Others	CURRENT YEAR	PREVIOUS YEAR
1) <u>Interest</u>		
a) On Govt. Securities	-	-
b) Other Bonds/ Debentures	-	-
2) <u>Income Received</u>		
a) Each Fund separately	-	-
3) <u>Income accrued</u>		
a) Each Fund separately	-	-
4) <u>Others (Specify)</u>	-	-
TOTAL		

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

SCHEDULE 12- INTEREST EARNED

Income Others	CURRENT YEAR	PREVIOUS YEAR
1. On Saving Accounts with Scheduled banks	11,672,275.00	10,180,963.62
2. On Loans	-	-
a) Employees/Staff		
b) Others	-	-
3. On Debtors and Other Receivables-Rites Gurgaon	8,216,857.00	2,035,111.00
4. On Term Deposit with Scheduled banks	27,574,781.00	18,320,958.00
TOTAL	47,463,913.00	30,537,032.62

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**

<u>PARTICULARS</u>	(Amount in ₹)	
	CURRENT YEAR	PREVIOUS YEAR
A. Income from Land & Building		
<u>1. Hostel Room Rent</u>		
Hostel Fan Charges	1,737,650.00	1,683,750.00
Hostel Replacement Charges	1,129,531.00	1,074,631.00
Hostel Room Rent	4,420,000.00	4,281,295.00
Hostel Utensils	1,047,000.00	1,009,700.00
Shop/ Canteen Rent & Electric Charges	231,317.00	191,732.00
Rent from Staff Quarter	2,159,210.00	2,150,251.00
<u>2. License fee</u>		
3. Hire Charges of Auditorium/Play ground/Convention Centre, etc		
4. Electricity & water charges		
Hostel Electricity Charges	8,778,000.00	8,497,914.00
Water/Electricity Charges from Contractor & Staff Quarter	2,964,806.00	1,409,198.00
Total	22,467,514.00	20,298,471.00
B. Sale of Institute's publications	-	-
C. Income from holding events	-	-
1. Gross Receipts from annual function/ sports carnival	-	-
Less: Direct expenditure incurred on the annual function/ sports carnival		
2. Gross Receipts from fetes	-	-
Less: Direct expenditure incurred on the fetes		
3. Gross Receipts for educational tours	-	-
Less: Direct expenditure incurred on the tours		

4. Others (to be specified and separately disclosed)	-	-
Total		
D. Others		
1. Income from consultancy	-	-
2. RTI fees	-	-
3. Income from Royalty	-	-
4. Sale of application form (recruitment)	-	-
5. Misc. receipts (Sale of tender form, waste paper, etc.)	-	-
6. Profit on Sale/ disposal of Assets:		
a) Owned assets	-	-
b) Assets acquired out of grants, or received free of cost	-	-
7. Grants/Donations from institutions, Welfare Bodies and International Organizations		
8. Others		
Computer hiring charges	-	-
Computer Stationery Charges	2,502,000.00	298,168.00
E-Mail Charges	5,023,500.00	4,859,250.00
NRI/DASA Fees	68,200,840.79	59,460,934.80
Recreation Fees	5,433,000.00	5,228,800.00
Student study tour	226,500.00	276,000.00
Student activity fees	91,200.00	98,400.00
Reference material	795,000.00	920,000.00
Verification of Degree/Migration/ Marksheet	306,850.00	287,420.00
Alumni Fees	554,700.00	490,200.00
Institute - Scholarship	-	6,000.00
Application Fees for Appointment	1,823,918.60	1,393,500.00
Lease rent Received	136,816.00	-
Discount Received	-	3,200.00

M.Tech/Ph.D/M.Sc. Admission Form	59,400.00	-
Miscellaneous Receipts Institute	632,910.00	900,540.00
Sale of Tender Form	326,805.00	795,000.00
Student Activity Centre	70,000.00	40,665.00
Penalty	-	10,000.00
Salary Recoverd in Lieu of Notice Period	-	376,481.00
Retension of Service Charges- Kee Lok Security Services	204,928.00	
Seminar Registration Fees	3,701.00	
Other Fees		38,587,732.00
M Tech (Part Time)		5,796,000.00
Examination Fee		15,794,973.62
NIMCET		139,000.00
Total	86,392,069.39	135,762,264.42
GRAND TOTAL (A+B+C+D)	108,859,583.39	156,060,735.42

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**

SCHEDULE 14- PRIOR PERIOD INCOME

<u>PARTICULARS</u>	<u>CURRENT YEAR</u>	<u>PREVIOUS YEAR</u>
1. Acedamic Receipts	-	-
2. Income from Investments	-	-
3. Interest Earned		
Interest on TDR	17,798,656.00	-
4. Other Income	-	-
Total	17,798,656.00	-

(Amount in ₹)

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**

SCHEDULE 15 – STAFF PAYMENTS & BENEFITS

<u>PARTICULARS</u>	CURRENT YEAR			PREVIOUS YEA		
	PLAN	NON- PLAN	TOTAL	PLAN	NON- PLAN	TOTAL
a) Salaries and Wages (Refer Annexure G (1))	-	202,419,094.00	202,419,094.00	-	214,445,611.00	214,445,611.00
b) Allowances and Bonus (Refer Annexure G (2))	-	194,222,817.00	194,222,817.00	-	175,314,372.00	175,314,372.00
c) Contribution to Provident Fund	-	228,816.00	228,816.00	-	222,141.00	222,141.00
d) <u>Contribution to Other Fund (specify)</u>			-			
Pension Contribution	-	124,764.00	124,764.00	-	226,859.00	226,859.00
New Pension Scheme	-	8,388,638.00	8,388,638.00	-	7,990,949.00	7,990,949.00
e) Staff Welfare Expenses	-	-	-	-	-	-
f) <u>Retirement and Terminal Benefits (Refer Annexure G (3))</u>	-	91,150,253.00	91,150,253.00	-	96,991,156.00	96,991,156.00
g) LTC facility	-	2,772,379.00	2,772,379.00	-	3,111,424.00	3,111,424.00
h) Medical facility	-	-	-	-	-	-
i) Children Education Allowance	-	3,164,629.00	3,164,629.00	-	2,484,530.00	2,484,530.00
j) Honorarium	-	-	-	-	-	-
k) <u>Others (specify)</u>	-	-	-	-	-	-
TOTAL	-	502,471,390.00	502,471,390.00	-	500,787,042.00	500,787,042.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

ANNEXURE G OF SCH 15

STAFF PAYMENTS & BENEFITS
G(1). SALARIES AND WAGES

Particulars	Expenditure for the year ended on 31/03/2015	Journal Entry Adjustment		Current Year 2014-15	Previous Year 2013-14
		Provision as on 01/04/2014	Provision as on 31/03/2015		
		(Amount in ₹)			
Pay Direction & Teaching	98,277,327.00	8,179,200.00	8,183,530.00	98,281,657.00	99,689,762.00
Pay Administrative Officer	3,264,701.00	289,570.00	311,390.00	3,286,521.00	3,528,151.00
Pay Other Staff	32,905,737.00	2,757,160.00	2,695,683.00	32,844,260.00	33,302,471.00
Pay Contractual Staff	56,458,096.00	3,942,848.00	3,510,470.00	56,025,718.00	58,748,525.00
Arrear Teaching & Non Teaching	1,621,734.00	-	-	1,621,734.00	11,243,073.00
Payment to visiting faculty	10,359,204.00	-	-	10,359,204.00	7,933,629.00
TOTAL	202,886,799.00	15,168,778.00	14,701,073.00	202,419,094.00	214,445,611.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

ANNEXURE G OF SCH 15

STAFF PAYMENTS & BENEFITS

G(2). ALLOWANCES AND BONUS

Particulars	Expenditure for the year ended on 31/03/2015	Journal Entry Adjustment		Current Year 2014-15	Previous Year 2013-14
		Provision as on 01/04/2014	Provision as on 31/03/2015		
<u>Teaching Staff :</u>					
Dearness Allowance	104,752,333.00	9,815,040.00	8,756,391.00	103,693,684.00	91,515,870.00
HRA	3,131,117.00	273,800.00	267,198.00	3,124,515.00	3,816,735.00
Transport Allowances	11,653,400.00	848,000.00	938,952.00	11,744,352.00	9,066,676.00
<u>Administrative Officer :</u>					
Dearness Allowance	3,478,219.00	347,484.00	333,190.00	3,463,925.00	3,289,740.00
HRA	176,860.00	16,706.00	12,602.00	172,756.00	193,222.00
Transport Allowances	476,063.00	37,400.00	42,228.00	480,891.00	391,800.00
<u>Other Staff</u>					
Dearness Allowance	34,987,044.00	3,308,592.00	2,884,390.00	34,562,842.00	30642891.00
HRA	3,421,745.00	294,870.00	273,076.00	3,399,951.00	3666595.00
Transport Allowances	5,974,344.00	435,600.00	477,850.00	6,016,594.00	4604382.00
Washing Allowance	204,431.00	7,380.00	10,777.00	207,828.00	93,902.00
<u>OTHER ALLOWANCES</u>					
Bonus	690,800.00		-	690,800.00	739,156.00
Special Allowance	836,092.00	66,680.00	106,107.00	875,519.00	824,329.00
Cash Handling Allowance	1,800.00	150.00	150.00	1,800.00	1,800.00

Computer Allowance	24,000.00				24,000.00	
Cummulative Professional Development Allowance	17,511,063.00	-			17,511,063.00	7,523,972.00
Family Planning Incentive	235,357.00	19,620.00		17,870.00	233,607.00	248,244.00
Inspire Faculty Award	-				-	320,000.00
Earned Leave Encashment on Salary	1,253,414.00	63,500.00		181,505.00	1,371,419.00	1,489,331.00
Leave encashment on Retirement	6,127,685.00	-		-	6,127,685.00	16,326,513.00
Deans Honorarium	294,000.00	24,500.00		24,500.00	294,000.00	276,500.00
T.A. on Retirement	225,586.00	-		-	225,586.00	282,714.00
TOTAL	195,455,353.00	15,559,322.00		14,326,786.00	194,222,817.00	175,314,372.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

ANNEXURE G OF SCH 15

STAFF PAYMENTS & BENEFITS
G(3). RETIREMENT AND TERMINAL BENEFITS

Particulars	Expenditure for theyear ended on 31/03/2015	Journal Entry Adjustment		Current Year 2014-15	Previous Year 2013-14
		Provision as on 01/04/2014	Provision as on 31/03/2015		
Leave Salary	99,000.00	-	-	99,000.00	99,000.00
Commuted Value of Pension	5,647,889.00	-	-	5,647,889.00	8,472,635.00
Gratuity	8,048,084.00	-	-	8,048,084.00	16,262,236.00
Medical Allowance (Pensioner)	1,504,898.00	107,187.00	177,500.00	1,575,211.00	1,297,124.00
Pension Pay	29,969,325.00	2,829,903.00	2,848,278.00	29,987,700.00	33,170,288.00
Pension Relief	41,624,286.00	3,060,005.00	3,699,740.00	42,264,021.00	33,400,616.00
ARREARS				-	-
Pay Revision - Pension	3,407,110.00	-	121,238.00	3,528,348.00	4,289,257.00
TOTAL	90,300,592.00	5,997,095.00	6,846,756.00	91,150,253.00	96,991,156.00

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGYALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**

SCHEDULE 16 - ACADEMIC EXPENSES

<u>PARTICULARS</u>	CURRENT YEAR			TOTAL	PLAN	PREVIOUS YEAR			
	PLAN	NON-PLANS	USER EXPENSE			NON-PLAN	USER EXPENSES	TOTAL	
a) Laboratory expenses	-	-	-	-	-	-	-	-	-
b) Field work/Participation	-	-	-	-	-	-	-	-	-
c) Seminar/Workshop	-	-	-	-	-	-	-	-	-
d) Payment to visiting faculty	-	-	-	-	-	-	-	-	-
e) Examination	-	-	-	-	-	-	-	-	-
f) Student Welfare expenses	-	-	-	-	-	-	-	-	-
g) Admission expenses	-	-	-	-	-	-	-	-	-
MBA Admission	-	-	515,227.00	515,227.00	-	-	-	3,76,234.00	3,76,234.00
h) Convocation expenses	-	-	-	-	-	-	-	-	-
Convocation expenses	-	121,017.00	-	121,017.00	-	-	1,805,820.00	7,86,921.00	25,92,741.00
i) Publications	-	-	-	-	-	-	-	-	-
j) Stipend/means-cum-merit scholarship	-	-	-	-	-	-	-	-	-

Stipend P.G.	60,595,136.00					60,595,136.00	60,138,182.47		-	601,38,182.47
Stipend Ph.D	31,921,668.00					31,921,668.00	21,594,779.00		-	215,94,779.00
Scholarship	-			813,000.00		813,000.00	-		-	-
k) Subscription Expenses	-					-	-		-	-
Annual Subscription of Teacher Association						-	-		69,500.00	69,500.00
l) Others (specify)	-					-	-		-	-
Cost of Books & Teaching Material	-					-	-		1,436.00	1,436.00
Preparation of Identity Card				25,050.00		25,050.00	-		1,12,760.00	1,12,760.00
Refund of Excess Fees				8,346,608.00		8,346,608.00	-		4,05,402.00	4,05,402.00
Student Welfare Expenses				1,358,637.00		1,358,637.00	-		-	-
Student Club/Student Activity Centre				6,937,309.00		6,937,309.00	-		49,82,589.00	49,82,589.00
Registration Fees				131,000.00		131,000.00	-		2,00,000.00	2,00,000.00
Library TLB										
Campus Interview									8,90,169.00	8,90,169.00
TOTAL	92,516,804.00	121,017.00	18,126,831.00	110,764,652.00	81,732,961.47	1,805,820.00	78,25,011.00	913,63,792.47		

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY, ALLAHABAD
SCHEDULES FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**

SCHEDULE 17 - ADMINISTRATIVE AND GENERAL EXPENSES

PARTICULARS	CURRENT YEAR			PREVIOUS YEAR			
	PLAN	NON-PLAN	USER PAYMENT	PLA	NON-PLAN	USER PAYMENT	TOTAL
A. Infrastructure							
a) Electricity and power							
Colony	-	-	1,714,409.00	-	-	32,65,312.00	32,65,312.00
Hostel	-	-	17,973,597.00	-	-	225,20,000.00	225,20,000.00
Institute	-	39,038,194.00	-	-	47,910,869.00	-	479,10,869.00
b) Water charges	-	-	-	-	-	-	-
c) Insurance	-	-	-	-	-	-	-
d) Rent, Rates and Taxes (including prope tax)							
Rent & Taxes - Hostel and Colony	-	2,608,318.00	-	-	2,608,318.00	-	26,08,318.00
Water Tax	-	2,963,998.00	-	-	2,963,998.00	-	29,63,998.00
B. Communication							
e) Postage & telegram	-	123,083.00	-	-	123,083.00	-	72,047.00
f) Telephone and Internet Charges							
Telephone Expenses	-	2,315,107.00	-	-	2,315,107.00	-	11,53,294.00
Rental Charges of Internet Bandwidth (Internet Charges)	-	6,006,876.00	-	-	6,006,876.00	-	81,68,240.00
C. Others							
g) Printing and Stationary	-	1,261,051.00	-	-	1,261,051.00	-	894,446.00
h) Traveling and Conveyance Expenses	-	1,742,697.00	-	-	1,742,697.00	-	13,37,726.00
i) Hospitality	-	36,267.00	-	-	36,267.00	-	20,521.00
j) Auditors Remuneration							
Audit Fees AGUP	-	-	-	-	-	-	-
Chartered Accountant Fees	-	185,424.00	-	-	185,424.00	-	1,09,552.00
k) Professional Charges	-	-	-	-	-	-	-
l) Advertisement and Publicity							

Advertisement UG	-	5,890,126.00	-	5,890,126.00	-	7,607,594.00	76,07,594.00
Advertisement PG	-	-	-	-	-	2,824,938.00	28,24,938.00
m) Magazines & Journals	-	-	-	-	-	-	-
Library & E-Journals	-	-	17,120,922.75	17,120,922.75	-	549,96,951.10	549,96,951.10
Library & E-Journals-Prior Period	-	-	-	-	-	9,45,540.25	9,45,540.25
Magazine Charges	-	-	1,064,446.00	1,064,446.00	-	1,59,490.00	1,59,490.00
n) Others (specify)	-	-	-	-	-	-	-
Legal Expenses	-	1,064,113.00	-	1,064,113.00	-	400,930.00	4,00,930.00
Library Newspaper & Magazine	-	26,057.00	-	26,057.00	-	19,430.00	19,430.00
Library Operating Cost (incl TLB)	-	362,858.00	-	362,858.00	-	400,362.00	4,00,362.00
Liveries to Staff	-	207,400.00	-	207,400.00	-	130,895.00	1,30,895.00
ME/Ph.D/M.Sc. Admission Form	-	-	200,000.00	200,000.00	-	-	-
Utensil Charges - Revenue	-	-	389,190.00	389,190.00	-	2,44,391.00	2,44,391.00
Miscellaneous Contingencies	-	2,112,787.00	-	2,112,787.00	-	1,999,050.00	9,99,050.00
Misc. Expenses	-	945,008.07	-	945,008.07	-	427,511.00	4,27,511.00
Recreation Club Teaching & Non Teaching	-	-	-	-	-	50,000.00	50,000.00
Research Grant	505,924.00	-	-	505,924.00	15,540.00	-	15,540.00
Security Charges	-	27,004,467.00	-	27,004,467.00	-	30,158,750.00	01,58,750.00
Anti Ragging Squad	-	949,066.00	-	949,066.00	-	405,787.00	4,05,787.00
Development Charges	-	-	-	-	-	4,91,465.00	4,91,465.00
Training for Faculty Staff	-	79,759.00	-	79,759.00	-	637,187.00	6,37,187.00
Executive Development Centre	-	-	490,794.00	490,794.00	-	3,18,941.00	3,18,941.00
Medical Reimbursement	-	4,503,324.00	-	4,503,324.00	-	3,997,323.00	9,97,323.00
Medicine including Doctors visit Fees	-	1,640,030.00	-	1,640,030.00	-	2,353,480.00	23,53,480.00
Other Misc Expenditure	-	-	-	-	-	652.00	652.00
NBHM Travel Grant	-	-	-	-	-	1,75,191.00	1,75,191.00
Science City Salary	-	-	18,975.00	18,975.00	-	20,700.00	20,700.00
III Cell Maintenance	-	-	-	-	3,950.00	-	3,950.00
NIT Transit House Contribution	300,000.00	-	-	300,000.00	-	-	-
B.O.G & Meetings	-	357,987.00	-	357,987.00	-	601,032.00	6,01,032.00
Seminar & Conference	-	196,235.00	-	196,235.00	-	-	-
VAT	-	-	4,342.00	4,342.00	-	-	-
o) Purchase/ Consumables (As per Annexure H)	-	8,823,211.00	-	8,823,211.00	-	8,379,403.00	83,79,403.00
TOTAL	805,924.00	110,443,443.07	38,976,675.75	150,226,042.82	19,490.00	125,633,335.00	2087,90,806.35

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD SCHEDULE FORMING
PART OF INCOME AND EXPENDITURE ACCOUNT**

ANNEXURE H OF SCH 17 DOC/CONSUMABLES/ACADEMIC DEPARTMENTS AND CENTERS

Particulars	(Amount in ₹)	
	Current Year 2014-15	Previous Year 2013-14
Purchases - Consumables-(U.G.&P.G.)		
Applied Mechanics Department	694,456.00	347,714.00
Biotech Department	429,896.00	555,242.00
Chemistry Department	-	272,838.00
Civil Engineering Department	618,922.00	868,950.00
Computer Science Department	839,072.00	1,121,953.00
Electronics and Communication Engg Deptt	798,241.00	395,853.00
Electrical Engineering Department	695,337.00	745,588.00
GIS Cell	269,393.00	347,233.00
Humanities Department	370,388.00	174,648.00
Computer Centre	-	46,252.00
Maths Department	208,092.00	232,162.00
Mechanical Engineering Department	1,330,797.00	1,358,897.00
SMS/MBA Operating Cost	833,160.00	931,846.00
Physics Department	176,922.00	158,802.00
Training & Placement	437,406.00	250,000.00
Workshop - Mechanical Department	257,604.00	25,000.00
Chemical - Engineering Department	740,252.00	302,640.00
Centre for Interdisciplinary Research	123,273.00	103,862.00
Raw Material Lab Fee	-	47,470.00
MCA- Contingency	-	92,453.00
TOTAL	8,823,211.00	8,379,403.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

SCHEDULE 18 – TRANSPORTATION EXPENSES

PARTICULARS	CURRENT YEAR			PREVIOUS YE	
	PLAN	NON- PLAN	TOTAL	PLAN	NON- PLAN
1. Vehicles (owned by educational institution)					
a) Running expenses	-	-	-	-	-
b) Repairs & maintenance	-	1,240,275.00	1,240,275.00	-	1,421,821.00
c) Insurance expenses	-	-	-	-	-
2. Vehicles taken on rent/lease	-	-	-	-	-
a) Rent/lease expenses					
3. Vehicle(Taxi) Hiring Expenses	-	-	-	-	-
TOTAL	-	1,240,275.00	1,240,275.00	-	1,421,821.00

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**

SCHEDULE 19 – REPAIRS & MAINTENANCE

<u>PARTICULARS</u>	<u>CURRENT YEAR</u>		<u>PREVIOUS YEAR</u>	
	<u>PLAN</u>	<u>NON-PLAN</u>	<u>PLAN</u>	<u>NON-PLAN</u>
a) Building				
Renovation of Building Structure	67,122,771.00	-	67,122,771.00	-
M/R Institute Building and Road	-	-	-	-
b) Furniture & Fixture				
Maintenance of Furniture	66,300.00	-	66,300.00	-
c) Plant & Machinery				
Maintenance of Plant & Machinery	-	-	-	-
d) Office Equipments				
Maintenance of Computer & Equipment	2,135,822.00	-	2,135,822.00	-
General Utility Equipment	10,493,406.00	-	10,493,406.00	-
e) Computers				
Maintenance of Computers	-	-	-	-
f) Laboratory & Scientific Equipment				
Maintenance of Laboratory & Scientific Equipment	-	-	-	-
g) Audio Visual Equipment				
Maintenance of Audio Visual Equipment	-	-	-	-
h) Cleaning Material & Services				
Maintenance of Cleaning Material & Services	-	-	-	-
i) Book binding charges				
Maintenance of Book binding charges	-	-	-	-
j) Gardening Expenses				
Maintenance of Lawns & Gardens	-	45,460.00	45,460.00	-
Landscaping and gardening	102,775.00	-	102,775.00	-
k) Estate Maintenance				
Maintenance of Estate	-	-	-	-
l) Others (specify)				
Renovation of Electric System & Facilities	4,473,594.00	-	4,473,594.00	-
TOTAL	84,394,668.00	45,460.00	84,440,128.00	166,664.00
			52,947,739.52	166,664.00
				531,14,403.52

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

SCHEDULE 20 – FINANCE COSTS

<u>PARTICULARS</u>	CURRENT YEAR				PREVIOUS YEAR			
	PLAN	NON-PLAN	USER EXPENSES	TOTAL	PLAN	NON-PLAN	USER EXPENSES	TOTAL
a) Interest on Fixed loans		-	-	-	-	-	-	-
b) Interest on other loans		-	-	-	-	-	-	-
Industrial Estate		-	301,894.00	301,894.00	-	-	3,01,894.00	3,01,894.00
PDTC		-	27,062.00	27,062.00	-	-	27,062.00	27,062.00
c) Bank Charges		-	21,338.00	21,338.00	-	-	-	-
d) Others (Specify)		-	-	-	-	-	-	-
<u>TOTAL</u>		-	350,294.00	350,294.00	-	-	3,28,956.00	3,28,956.00

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

SCHEDULE 21 - OTHER EXPENSES

<u>PARTICULARS</u>	CURRENT YEAR		PREVIOUS YEAR	
	PLAN	NON-PLAN	PLAN	NON-PLAN
		TOTAL		
a) Provision for Bad and Doubtful Debts/Advances	-	-	-	-
b) Irrecoverable Balances Written-off	-	-	-	-
c) Grants/Subsidiaries to other institutions/organisations	-	-	-	-
d) Others (specify)	-	-	-	-
TOTAL	-	-	-	-

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

SCHEDULE 22 - PRIOR PERIOD EXPENSES

<u>PARTICULARS</u>	<u>CURRENT YEAR</u>				<u>PREVIOUS YEAR</u>			<u>(Amount in ₹)</u>	
	<u>PLAN</u>	<u>NON-PLAN</u>	<u>USER PAYMENT</u>	<u>TOTAL</u>	<u>PLAN</u>	<u>NON-PLAN</u>	<u>USER PAYMENT</u>		<u>TOTAL</u>
Establishment Expenses									
Cummulative Professiona Development Allowance		987,800.00	-	987,800.00		-	-	-	-
2) Academic Expenses									
Examination fees		-	30,275,242.00	30,275,242.00		-	-	-	-
Administrative Expenses									
Income Tax Demand of Earlier Years		-	1,528,969.00	1,528,969.00		-	-	-	-
Transportation Expenses		-	-	-		-	-	-	-
Repair & Maintenance		-	-	-		-	-	-	-
Other Expenses		-	-	-		-	-	-	-
Miscellaneous Expenditure		125.00	-	125.00		-	-	-	-
TOTAL		987,925.00	31,804,211.00	32,792,136.00		-	-	-	-

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY, ALLAHABAD SCHEDULE FORMING PART OF
THE ACCOUNTS FOR THE YEAR 2014-2015**

SCHEDULE 23 - SIGNIFICANT ACCOUNTING POLICIES & NOTES TO ACCOUNTS

ACCOUNTING CONVENTIONS:

The financial statements are prepared on the basis of historical conventions, unless and otherwise stated and on accrual basis of accounting, except receipt of fees from students which is accounted for on cash basis.

FIXED ASSETS:

Fixed assets are included at cost of acquisition inclusive of inward freight, duties and taxes, incidental and direct expenses related to the acquisition. In respect of projects involving construction, related pre operative expenses form part of the value of assets capitalised.

Fixed assets received by way of non - monetary grants (other than towards the corpus) are capitalised at value stated, by corresponding credit to capital reserve/fund.

Fixed assets acquired by Institute /Project/ Subsidiaries Fund are capitalised and disclosed separately.

Fixed assets are valued at cost less accumulated depreciation.

INTANGIBLE ASSETS:

E-Journals and Computer Software are grouped under Intangible asset

E-Journals are separated from library books in view of the limited benefit that could be derived from the on-line access provided. E-journals are not in a tangible form, but temporarily capitalized and in view of the magnitude of expenditure and the benefits derived in terms of perpetual knowledge acquired by the Academic and Research Staff;

DEPRECIATION:

Depreciation on fixed assets has been charged on Straight Line method at rates as prescribed in the Uniform Accounting Standard for all education institutions under MHRD. Depreciation is provided for the whole year on additions during the year

A change in the method of providing depreciation on Fixed Asset is made from FY 2014-15 from written down value (WDV) to Straight line method (SLM) due to adoption of a Uniform Accounting Standards for all Education Institutions as issued by the MHRD. Recalculation of depreciation in accordance with the new method (SLM) from the date of assets coming into use has not been made, as date of each assets coming into use is not available. However depreciation as per earlier method (WDV) for the year 2014-15 is Rs. 203,600,195.00 and new method (SLM) for the year 2014-15 is Rs. 144,116,759.

Depreciation on fixed assets has been charged to income and expenditure account by corresponding credit to income & expenditure statement from capital fund (for assets created before 01.04.2006) and from deferred income (for assets created w.e.f. 01.04.2006).

GOVERNMENT GRANTS/SUBSIDIES:

Government Grants relating to depreciable fixed assets has been taken to deferred government grants account from the year 2006-07 to be recognised in the income and expenditure statement on a systematic and rational basis over the useful life of the asset.

Government grants and subsidies are accounted on receipt basis and/or where there is a reasonable assurance that the grant will be received. Where a saction for release of grant pertaining to the financial year is received before 31st March and the grant is actually received in the next financial year, the grant is accounted on accrual basis and an equal amount is shown as recoverable from the Grantor.

Government grants not utilised during the year is shown as unspent balance of funds under current liabilities to be returned / adjusted in the corresponding next year grants to be received.

Government grants excess utilised during the year has been shown as current assets with corresponding credit to income & expenditure account, to be recoverable / adjusted from the corresponding next year grant to be received.

RETIREMENT BENEFITS:

Pension, Gratuity and Leave Encashment payable on death / retirement of employees is not based on actuarial valuation.

CURRENT ASSETS, LOANS AND ADVANCES:

In the opinion of management the current assets, loans and advances have a value on realisation in the ordinary course of business, equal at least to the aggregate amount shown in the balance sheet.

EARMARKED/ENDOWMENT FUNDS:

Long Term Funds are earmarked for specific purposes. Each of the funds has a separate bank account. Those with large balances also have investments in Term Deposits with banks. The income from investments is credited to the respective funds. The expenditure and advances are debited to the fund.

TAXATION:

Institute being autonomous body exempt from income tax hence no provision for income tax has been made.

Corresponding figure of the previous year have been rearranged/ regrouped wherever necessary. Figures in brackets () represents (-) negative figures.

NOTES TO ACCOUNTS:

Financial Statements for the year 2014-2015 is prepared on the basis of New Format of Accounts for CEI's as provided by MHRD-GOI. Necessary annexures/ groupings to the schedules have been added in order to give a clear understanding of financial statements. Necessary changes in the schedules / groupings as compared to previous year has been made in order to implement New Format of Accounts

Excess of Income over Expenditure of subsidiaries is being shown separately under the Fund Account of subsidiaries w.e.f year 2006-07. Excess of Income over Expenditure Account of subsidiaries before 2006-07 has been shown under the fund account of institute.

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY, ALLAHABAD
SCHEDULE FORMING PART OF THE ACCOUNTS FOR THE YEAR 2014-2015**

SCHEDULE 24 - CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS

CONTINGENT LIABILITIES

As on 31.03.2015 Court Cases filed against the Institution, by former/ present employees, tenants and contractors and arbitration cases with contractors, were pending for decisions. The suits filed by employees were establishment -related viz promotions, increments, pay scales, termination etc. The quantum of the claims is not ascertainable. The claim in the suits and arbitration cases by contractors amounted to Rs. 265.72 Lakhs

Letters of credit established by the Bank on behalf of the Institution and outstanding on 31.03.2015 - Rs 379.58 Lakhs.

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**

ANNEXURE (i) OF SCH 1 (A-1)

INCOME FROM SUBSIDIARY FUNDS

Particulars	(Amount in ₹)	
	Current Year 014-2015	Previous Year 2013-14
1) <u>Interest Received</u>		
a) <u>On Term Deposits with Scheduled Banks:</u>		
Alumni Association	649,552.00	154,753.00
G.K. Agarwal Trust	21,661.00	22,200.00
Industrial Estate	2,290,561.00	1,102,119.00
Industrial Estate - Prior period	1,736,352.00	
Project Account	3,026,550.00	3,739,066.00
Research & Consultancy Cell	17,294,434.00	18,017,137.00
SNFCE	776,148.00	756,097.00
Sponsored Gold Medal	26,144.00	12,726.00
Sponsored Gold Medal-Prior Period	-	246.00
Student Welfare Fund	1,688,145.00	1,853,266.00
Student Welfare Fund- Prior Period	-	27,509,547.00
b) <u>On Savings Account with Scheduled Bank:</u>		
Alumni Association	118,644.00	105,149.00
Dean Academic Affairs	434,908.00	737,898.00
G.K. Agarwal Trust	7,673.00	6,529.00
Industrial Estate	130,109.00	-
Nodal Centre (NTMIS)	3,173.00	15,611.00
P.D.T.C.	7,231.00	6,950.00
Project Account	447,079.00	330,208.38

Research & Consultancy Cell	512,238.00		903,728.00
SNFCE	197,170.00		193,251.00
Sponsored Gold Medal	1,868.00		1,114.00
Student Welfare Fund	190,511.00		186,131.00
TEQIP - II	680,181.00		381,370.00
TEQIP - II- Prior Period	-		409,927.00
Text Book Lending Bank	18,424.00	2,749,209.00	16,841.00
2) Revenue Income:			
Alumni Association	1,996,823.00		598,500.00
Dean Academic Affairs	43,695,694.00		89,228.00
Industrial Estate	2,128,268.50		1,975,200.46
Industrial Estate - Prior period Income	-		1,451,413.92
Project Account	568,436.00		1,015,295.50
Research & Consultancy Cell	4,438,253.00		6,073,014.00
SNFCE	-		1,361,469.00
Student Welfare Fund	2,096,863.00		381,414.00
TEQIP	70,000,000.00		35,000,000.00
Text Book Lending Bank	44,384.00	124,968,721.50	35,417.00
TOTAL		155,227,477.50	76,977,397.26

**MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD
SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT**

EXPENDITURE OF SUBSIDIARIES
ANNEXURE (ii) OF SCH 1 (A-1)

Particulars	(Amount in ₹)	
	Current Year 2014-15	Previous Year 2013-14
Alumni Association	1,750,850.75	719,713.00
Dean Academic Affairs	10,915,423.00	9,929,305.50
Industrial Estate	795,610.00	821,956.00
Nodal Centre (NTMIS)	-	574,807.00
Project Account	348,666.00	16,824.00
Research & Consultancy Cell	1,356,892.00	1,376,635.00
School of Non Formal Continuing Education	596,442.00	1,703,462.00
Student Welfare Fund	953,563.00	964,951.00
FEQIP - II	34,163,245.00	19,118,216.00
Text Book Lending Bank	26,280.00	21,231.00
TOTAL	50,906,971.75	35,247,100.50

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY ALLAHABAD

RECEIPT & PAYMENT ACCOUNT FOR THE YEAR ENDING 31ST MARCH, 2015

RECEIPTS	CURRENT YEAR		PREVIOUS YEAR	(Amount in ₹)
<u>I. OPENING BALANCE:</u>				
Current Account:				
State Bank of India - Fees Account	302,448,897.00		161,074,616.00	
State Bank of India - Power Jyoti	3,922,679.22	306,371,576.22	122,549,975.64	283,624,591.64
Savings Account & Autosweep:				
Vijaya Bank		95,939,685.61		286,128,308.36
<u>In Fixed Deposits with Banks:</u>				
Institute				
Bank of Baroda	53,048,536.00		53,048,536.00	
State Bank of India	90,000,000.00		90,000,000.00	
Vijaya Bank	-			
State Bank of India	1,727,804.00		1,727,804.00	
Vijaya Bank	8,500,000.00	153,276,340.00	8,500,000.00	153,276,340.00
<u>Earmarked and Endowment Fund:</u>				
Contributory Provident Fund:				
Contributory Provident Fund (SB)	1,174,854.00		1,387,012.00	
Contributory Provident Fund FDR	7,000,000.00		8,844,331.00	
General Provident Fund:				
General Provident Fund - with Treasury	1,007,349.00		1,007,349.00	
General Provident Fund - with Vijaya Bank (FDR)	154,996,556.00		124,996,556.00	
General Provident Fund - with Bank of Baroda (FDR)	26,249,816.00		26,249,816.00	
General Provident Fund - with Vijaya Bank (SB)	(1,367,939.00)		37,708,917.00	
Corpus Fund (SBI-SB)	3,690,375.00		3,547,074.00	
Development/Renewal Fund (SBI-SB)	615,246.00		591,355.00	

<u>Maintenance Fund (SBI-SB)</u>	615,246.00		591,355.00	
<u>Staff Development Fund (SBI-SB)</u>	1,230,271.00		1,182,498.00	
New Pension Scheme:				
Vijaya Bank Saving Account	4,142,509.00		25,000.00	
<u>Vijaya Bank Autosweep FDR</u>	54,633,247.00	253,987,530.00	39,661,803.00	245,793,066.00
<u>In Subsidiary Funds:</u>				
<u>Admission Committee</u>	704,312.00		704,312.00	
Alumni Association				
Savings Account	2,337,754.50		3,920,615.50	
<u>Fixed Deposits</u>	5,152,560.00		2,969,410.00	
<u>Dean Academic Affairs</u>	11,487,242.50		20,491,942.00	
G.K. Agarwal Trust :				
Savings Account:	180,286.00		151,557.00	
<u>Fixed Deposits</u>	300,000.00		300,000.00	
Industrial Estate				
Current Account	2,402,184.26		4,092,534.26	
<u>Fixed Deposits</u>	27,300,000.00		20,800,000.00	
<u>Kitchen Project</u>	6,272.00		6,272.00	
<u>Nodal Centre</u>	78,527.00		637,723.00	
<u>P.D.T.C.</u>	178,987.00		172,037.00	
Project Account				
Savings & AutoSweep Account	9,364,912.78		14,539,313.40	
<u>Fixed Deposits</u>	33,409,974.00		14,464,408.00	
Research & Consultancy Cell :				
Savings & AutoSweep Account	10,576,963.55		20,090,681.55	
<u>Fixed Deposits</u>	177,820,502.00		147,923,569.00	
School of Non Formal Continuing Education :				
Current Account	4,763,013.00		4,221,893.00	
<u>Fixed Deposits</u>	9,800,000.00		9,800,000.00	
Sponsored Gold Medal				
Savings Account	37,861.00		26,456.00	
<u>Fixed Deposits</u>	388,488.00		209,755.00	
Student Welfare Fund :				

Savings Account	3,255,072.00		6,966,179.00	
<u>Fixed Deposits</u>	12,582,050.00		7,598,119.00	
<u>TEQIP - II</u>	4,278,311.00		11,553,159.00	
<u>Text Book Lending Bank</u>	444,555.00	316,849,827.59	413,528.00	292,053,463.71
<u>II. GRANT RECEIVED:</u>				
<u>a) From Government of India</u>				
Non Plan (Recurring) Grant	300,000,000.00		390,000,000.00	
Plan (Non Recurring) Grant	420,000,000.00	720,000,000.00	242,500,000.00	632,500,000.00
<u>III. ACADEMIC RECEIPTS:</u>				
<u>Tuition Fees:</u>				
Tuition Fees B. Tech	138,145,000.00		112,230,000.00	
Tuition Fees MBA	2,952,000.00		3,492,000.00	
Tuition Fees MCA	12,215,000.00		3,060,000.00	
Tuition Fees M. Tech	39,970,000.00		30,625,000.00	
Tuition Fees Ph.D	5,775,000.00		833,000.00	
Tuition Fees M.Sc.	285,000.00		247,250.00	
Tuition Fees MSW	105,000.00		193,500.00	
<u>Registration fee:</u>				
Registration Fees M. Tech	193,500.00		205,700.00	
Registration Fees MBA	43,600.00		48,800.00	
Registration Fees MCA	59,700.00		59,100.00	
Registration Fees PhD	77,000.00		14,800.00	
Registration Fees MSW	1,400.00		-	
Registration Fees MSC	3,800.00		-	
Registration Fees B. Tech	739,500.00		737,500.00	
Day Fees B.Tech	1,104,800.00		1,101,800.00	
Day Fees M. Tech	342,525.00		360,825.00	
Day Fees MBA	56,600.00		64,400.00	
Day Fees MCA	104,325.00		103,425.00	
Day Fees Ph.D	222,350.00		130,550.00	
Day Fees MSC	5,700.00			

Day Fees MSW	2,100.00				
Enrolment Fee	180,700.00				180,000.00
Library Admission fee	3,284,016.00				3,177,516.00
Laboratory fee:					
Lab Fees B.Tech	2,050,750.00				2,045,750.00
Lab Fees M.Tech	541,250.00				510,750.00
Lab Fees MBA	79,000.00				92,000.00
Lab Fees MCA	154,250.00				152,750.00
Lab Fees Ph.D	376,500.00				223,500.00
Lab Fees MSC	9,500.00				-
Lab Fees MSW	3,500.00				-
Others Fees	-				38,587,732.00
Syllabus fee	504,000.00				93,300.00
Annual Examination fee					15,794,973.62
Identity card fee	161,000.00				153,587.00
Medical fee	2,920,000.00				2,813,562.00
Transportation fee:					
Bus Charges from Student	308,000.00				271,058.00
Private Use of Vehicle	1,237,915.00				968,300.00
Development Fees	1,157,450.00				1,104,200.00
Magazine Fees	574,700.00				553,400.00
Placement Charges	2,265,590.00				2,201,690.00
Student Welfare Fees	604,090.00				577,130.00
Tuition Fee M.Tech.(Part time)	-			218,816,111.00	5,796,000.00
IV. RECEIPTS AGAINST EARNMARKED/ENDOWMENT FUNDS					
Contributory Provident Fund:					
Subscription & Loan Recovery	456,512.12				443,192.00
General Provident Fund:					
Subscription	47,122,451.00				28,625,729.00
New Pension Scheme					
Subscription and Loan Recovery	18,310,772.00	65,889,735.12			16,727,623.00
					45,796,544.00

<u>VI. RECEIPTS AGAINST SPONSORED FELLOWSHIPS AND SCHOLARSHIP:</u>			
<u>Institute</u>			
Conference ICPCES - 2010-11 EED	70,000.00		-
QIP Stipend & Contingency	-		6,831,752.00
Outside Scholarship	-		3,314,694.00
UGC Fellowship	4,472,049.00		431,008.00
Fellowship (CSIR)	424,066.00		-
DST New Delhi/Inspire	4,017,877.00		-
AIEEE Schlorship	1,890,000.00		-
Raman Fellowship	2,290,928.00		-
CSIR Delhi	-		60,000.00
<u>Subsidiaries</u>			
<u>Project Account :</u>			
Project (Running)	32,648,651.00		18,453,441.00
Project (Deffered Grant)	6,076,761.00	51,890,332.00	4,626,936.00
<u>VII. INCOME ON INVESTMENT FROM</u>			33,717,831.00
<u>a) EARMARKED/ ENDOWMENT FUND:</u>			
<u>Contributory Provident Fund:</u>			
Interest on Contributory Provident Fund	52,452.00		320,078.00
<u>General Provident Fund:</u>			
Interest on General Provident Fund	1,915,738.00		2,115,916.00
<u>Corpus Fund</u>			
Revenue Income	146,617.00		143,301.00
<u>Development/Renewal Fund</u>			
Revenue Income	24,444.00		23,891.00
<u>Maintenance Fund</u>			
Revenue Income	24,444.00		23,891.00
<u>Staff Development Fund</u>			
Revenue Income	48,878.00		47,773.00
N.P.S-interest on autosweep	4,653,604.00		3,374,142.00
N.P.S- Interest on saving bank	429,181.00		5,465.00
<u>Subsidiary Funds</u>			
Alumni Association	1,996,823.00		598,500.00

Dean Academic Affairs	43,695,694.00			89,228.00	
Industrial Estate	2,128,268.50			1,975,200.46	
Industrial Estate - Prior period Income	-			1,451,413.92	
Project Account	568,436.00			1,015,295.50	
Research & Consultancy Cell	4,438,253.00			6,073,014.00	
SNFCE	-			1,361,469.00	
Student Welfare Fund	2,096,863.00			381,414.00	
TEQIP	70,000,000.00			35,000,000.00	
Text Book Lending Bank	44,384.00	132,264,079.50		35,417.00	54,035,408.88
VIII. INTEREST RECEIVED ON:					
Term Deposits:					
Main Institute	52,482,117.00			2,109,943.00	
Rites- Gurgaon	8,216,857.00			2,035,111.00	
Subsidiary Funds:					
Alumni Association	649,552.00			154,753.00	
G.K. Agarwal Trust	21,661.00			22,200.00	
Industrial Estate	2,290,561.00			1,102,119.00	
Industrial Estate - Prior period	1,736,352.00			-	
Project Account	3,026,550.00			3,739,066.00	
Research & Consultancy Cell	17,294,434.00			18,017,137.00	
School of Non Formal Continuing Education	776,148.00			756,097.00	
Sponsored Gold Medal	26,144.00			10,537.00	
Student Welfare Fund	1,688,145.00			1,638,141.00	
Caution money				-	
Savings Bank & Autosweep Accounts:					
Main Institute	11,672,275.00			9,185,253.62	
Subsidiary Funds:					
Alumni Association	118,644.00			105,149.00	
Dean Academic Affairs	434,908.00			737,898.00	
G.K. Agarwal Trust	7,673.00			6,529.00	
Industrial Estate	130,109.00			-	
Nodal Centre (NTMIS)	3,173.00			15,611.00	

P.D.T.C.		7,231.00		6,950.00	
Project Account		447,079.00		330,208.38	
Research & Consultancy Cell		512,238.00		903,728.00	
School of Non Formal Continuing Education		197,170.00		193,251.00	
Sponsored Gold Medal		1,868.00		1,114.00	
Student Welfare Fund		190,511.00		186,131.00	
TEQIP - II		680,181.00		791,297.00	
Text Book Lending Bank		18,424.00	102,630,005.00	16,841.00	42,065,065.00
<u>IX. INVESTMENT ENCASHED</u>					
<u>X. TERM DEPOSIT WITH SCHEDULED BANK ENCASHED</u>					
Subsidiary-Sponsored Gold Medal- Fixed Deposit			-		176,637.00
<u>XI. OTHER INCOME(INCLUDING PRIOR PERIOD INCOME)</u>					
<u>1. Hostel Room Rent</u>					
Hostel Fan Charges		1,737,650.00		1,683,750.00	
Hostel Replacement Charges		1,129,531.00		1,074,631.00	
Hostel Room Rent		4,420,000.00		4,281,295.00	
Hostel Utensils		1,047,000.00		1,009,700.00	
Shop/Canteen Rent & Electric Charges		231,317.00		191,732.00	
Rent from Staff Quarter		2,159,210.00		2,150,251.00	
<u>2. Electricity & water charges</u>					
Hostel Electricity Charges		8,778,000.00		8,497,914.00	
Water/Electricity Charges from Contractor & Staff		2,964,806.00		1,409,198.00	
<u>3. Others</u>					
Computer Stationery Charges		2,502,000.00		298,168.00	
E-Mail Charges		5,023,500.00		4,859,250.00	
NRI Fees		68,200,840.79		59,460,934.80	
Recreation Fees		5,433,000.00		5,228,800.00	
Student study tour		226,500.00		276,000.00	
Student activity fees		91,200.00		98,400.00	
Reference material		795,000.00		920,000.00	
Verification of Degree/Migration/Marksheet		306,850.00		287,420.00	

Alumni Fees	554,700.00		490,200.00	
Institute - Scholarship	-		6,000.00	
Application Fees for Appointment	1,823,918.60		1,393,500.00	
Lease rent Received	136,816.00		-	
Discount Received	-		3,200.00	
M.Tech/Ph.D/M.Sc. Admission Form	59,400.00		-	
Miscellaneous Receipts Institute	632,910.00		900,540.00	
NIMCET	-		139,000.00	
Sale of Tender Form	326,805.00		795,000.00	
Student Activity Centre	70,000.00		40,665.00	
Penalty	-		10,000.00	
Salary Recoverd in Lieu of Notice Period	-		376,481.00	
Retension of Service Charges	204,928.00		-	
Seminar Registration Fees	3,701.00	108,859,583.39	-	95,882,029.80
Interest Earned on TDR-Prior Period		17,798,656.00		-
XII. DEPOSITS AND ADVANCES				
Advance adjustment to Staff	20,466,739.00		13,394,624.00	
Advance adjustment to Imprest	240,060.00		481,857.00	
Advance adjustment to Parties	14,473,625.00		32,210,705.00	
Festival Advance	-		4,189,500.00	
Institute-LC Debit on account R&C	-		10,985,060.00	
Recovery against Debts Outstanding of Industrial Estate	1,000,394.50			
Subsidiary-				
Subsidiary- Alumni Association - Advance & Imprest	-		10,000.00	
Subsidiary-Dean Academics - Advances	45,950.00		381,000.00	
Subsidiary-Project Account - Advance & Imprest	280,731.00		130,066.00	
R&C Cell - Advances & Imprest	2,031,674.00		1,826,379.00	
R&C Cell - Receivable from Project Account	-		1,169,073.00	
SNFCE - Advance & Imprest	5,310.00		40,000.00	
Subsidiary-Industrial Estate	-		1,026,206.62	
Subsidiary-Sponsored Gold Medal- Advance	-		1,850.00	

Subsidiary-Student Welfare Fund - Advance	-			1,200.00	
Subsidiary-Student Welfare Fund - Decrease in Deposit	-			239,803.00	
TEQIP - Advances Recoverable	9,255,971.00			-	
Recoverable Deposit- Institute- G.I. for Students	1,586,040.00			1,898,876.36	
Recoverable Deposit- Institute-Group Insurance Scheme	1,230,871.00			738,655.00	
Recoverable Deposit- Institute-Security & Earnest Money	-			5,869,947.00	
Recoverable Deposit- Subsidiaries-Security & Earnest Mone	-	50,617,365.50		-	74,594,801.98
XIII. MISCELLANEOUS RECEIPTS INCLUDING STATUTORY RECEIPTS					
Income Tax	35,800,773.00			34,834,619.00	
Sales Tax	4,837,562.00			4,520,349.00	
Employees contribution to C.P.F	456,512.00			443,192.00	
Employees contribution to N.P.S	18,313,772.00			15,799,576.00	
GPF- contribution to employees	31,470,029.00			28,316,404.00	
<u>SUBSIDIARIES</u>					
Project Account - Income Tax	66,361.00			512.00	
R&C Cell - Income Tax	2,252,422.00			3,346,000.00	
SNFCE - Income Tax	101,645.00			213,132.00	
Dean Academic Affairs - Income Tax	-	93,299,076.00		204,999.00	87,678,783.00
<u>XIV. ANY OTHER RECEIPTS</u>					
NIMSET Scheme	150,000.00			-	
Alumni Association	-			6,170.00	
ICCCT Seed	50,000.00			50,000.00	
TEQUIP II STIPEND	5,000,000.00			2,001,027.00	
Prime Minister Relief Fund	-			306,938.00	
Cancelled Cheques	2,142,829.00			8,176,744.00	
DST New Delhi	4,017,877.00			3,896,481.00	
Examination Fees	19,423,944.00			-	
Tuition Fees- M Tech (Part time)	1,519,526.00				
Motor Cycle Loan Recovery	-			69,600.00	
House and building recovery employees	327,000.00			327,000.00	

World Environment Day	60,000.00	50,000.00	
L.I.C.	893,830.80	1,027,244.00	
Other Liabilities (Misc. Receipt Transfer)	12,926,609.00	17,730,543.00	
Employees contribution to khadi	9,477.00	26,691.00	
Employees loan from SBI	504,492.00	512,598.00	
Merit Scholarship	-	980,000.00	
State Scholarship	1,405,673.00	-	
Reliance Dairy Food Ltd Stipend	-	24,600.00	
Leave Salary Contri.(Deputation)	361,985.00	284,808.00	
Revenue Stamp (Stamp Fees)	9,586.00	9,896.00	
SERB	-	115,581.00	
Teacher Association Subscription	70,500.00	-	
C-DAC	-	116,240.00	
Caution Money	3,587,470.00	3,517,250.00	
Earnest Money/ Security Money	6,438,493.00	-	
Project Account Dean R & C	1,986,451.00	-	
Tequip II	3,293,709.00	-	
SUBSIDIARIES			
Alumni Association - Amount Payable	572,200.00	500,000.00	
Industrial Estate - Expenses Payable	38,616.00	76,666.00	
Project Account - Accounting Charges Payable	5,000.00	-	
Project Account - Salary Payable	33,668.00	-	
Project Account - MNNIT	998,740.00	6,102,585.00	
Project Account - University of Allahabad	155,691.00	-	
R&C Cell - Loan to MNNIT	-	11,916,989.00	
R&C Cell - Expenses Payable	19,564.00	1,743.00	
SNFCE- C-Dac	507,840.00	-	
Security Received (Industrial Estate)	8,986.00	-	
Project Account - Transferable amount to R&C Cell	1,061,000.00	-	
R&C Cell - Testing & Consultancy (Pending)	14,894,732.00	82,475,488.80	76,252,429.00
TOTAL			2,632,380,147.99

PAYMENTS	CURRENT YEAR	PREVIOUS YEAR
I. EXPENSES		
<u>a) Establishment Expenses</u>		
a) Salaries and Wages (Refer Annexure G (1))	202,886,799.00	215,751,240.00
b) Allowances and Bonus (Refer Annexure G (2))	195,455,353.00	169,990,743.00
c) Contribution to Provident Fund	228,256.00	221,596.00
d) Contribution to Other Fund (specify)		
Pension Contribution	124,764.00	226,859.00
New Pension Scheme	8,290,973.00	7,899,788.00
e) Staff Welfare Expenses	-	
f) Retirement and Terminal Benefits (Refer Annexure G	90,300,592.00	96,997,123.00
g) LTC facility	2,772,379.00	3,111,424.00
h) Medical facility	-	-
i) Children Education Allowance	3,164,629.00	503,223,745.00
		2,484,530.00
		496,683,303.00
<u>b) Academic Expenses</u>		
<u>Admission expenses</u>		
MBA Admission	515,227.00	376,234.00
<u>Convocation expenses</u>		
Convocation expenses	121,017.00	1,805,820.00
Convocation and Institute Day Celebration	-	786,921.00
<u>Stipend/ means-cum-merit scholarship</u>		
Stipend P.G.	60,595,136.00	60,138,182.47
Stipend Ph.D	31,921,668.00	21,594,779.00
Scholarship	813,000.00	-
<u>Subscription Expenses</u>	-	-
Annual Subscription of Teacher Association	-	69,500.00
<u>Others (specify)</u>		
Cost of Books & Teaching Material	-	1,436.00
Preparation of Identity Card	25,050.00	112,760.00
Refund of Excess Fees	8,346,608.00	405,402.00
Student Welfare Expenses	1,358,637.00	-
Student Club/Student Activity Centre	6,937,309.00	4,982,589.00

Registration Fees	131,000.00		200,000.00	
Library TLB	-		224,483.00	
Campus Interview	-	110,764,652.00	890,169.00	91,588,275.47
<u>c) Administrative Expenses</u>				
<u>Infrastructure</u>				
<u>Electricity and power</u>				
Colony	1,794,460.00		3,488,038.00	
Hostel	19,523,728.00		21,670,000.00	
Institute	42,438,194.00		45,260,869.00	
Water charges	-		2,963,998.00	
<u>Rent, Rates and Taxes (including property tax)</u>				
Rent & Taxes - Hostel and Colony	2,608,318.00		2,608,318.00	
Water Tax	2,963,998.00		-	
<u>Communication</u>				
Postage & telegram	123,083.00		72,047.00	
Telephone and Internet Charges	-		-	
Telephone Expenses	2,325,235.00		1,120,097.00	
Rental Charges of Internet Bandwidth (Internet Charges)	6,006,876.00		8,168,240.00	
<u>Others</u>				
Printing and Stationary	1,261,051.00		894,446.00	
Traveling and Conveyance Expenses	1,742,697.00		1,337,726.00	
Hospitality	36,267.00		20,521.00	
Auditors Remuneration				
Chartered Accountant Fees	160,000.00		179,776.00	
<u>Advertisement and Publicity</u>				
Advertisement UG	5,890,126.00		7,607,594.00	
Advertisement PG	-		2,824,938.00	
<u>Magazines & Journals</u>				
Library & E-Journals	-		72,117,873.85	
Library & E-Journals-Prior Period	-		945,540.25	
Magazine Charges	1,064,446.00		159,490.00	
<u>Others (specify)</u>				

Legal Expenses	1,064,113.00		400,930.00	
Library Newspaper & Magazine	26,057.00		19,430.00	
Library Operating Cost	362,858.00		175,879.00	
Liveries to Staff	207,400.00		130,895.00	
ME/Ph.D/M.Sc. Admission Form	200,000.00		-	
Utensil Charges - Revenue	389,190.00		244,391.00	
Miscellaneous Contingencies	2,112,787.00		1,999,050.00	
Misc. Expenses	945,008.07		427,511.00	
Recreation Club Teaching & Non Teaching	-		50,000.00	
Research Grant	505,924.00		15,540.00	
Security Charges	27,489,827.00		29,963,923.00	
Anti Ragging Squad	949,066.00		405,787.00	
Development Charges	-		491,465.00	
Training for Faculty Staff	79,759.00		637,187.00	
Executive Development Centre	490,794.00		318,941.00	
Medical Reimbursement	4,503,324.00		3,997,323.00	
Medicine including Doctors visit Fees	1,640,030.00		2,353,480.00	
Other Misc Expenditure	-		652.00	
NBHM Travel Grant	-		175,191.00	
Science City Salary	18,975.00		20,700.00	
III Cell Maintenance	-		3,950.00	
NIT Transit House Contribution	300,000.00		-	
B.O.G & Meetings	357,987.00		601,032.00	
Seminar & Conference	196,235.00		-	
VAT	4,342.00		-	
Purchase/Consumables (As per Annexure H)	8,823,211.00	138,605,366.07	8,379,403.00	222,252,172.10
d) Transportation Expenses				
<u>Vehicles (owned by educational institution)</u>				
Repairs & maintenance	1,240,275.00		1,421,821.00	
Insurance expenses	-	1,240,275.00	-	1,421,821.00
e) Repairs & Maintenance Building				

Renovation of Building Structure	67,122,771.00			42,725,410.52
Furniture & Fixture				
Maintenance of Furniture	66,300.00			688,147.00
Office Equipments				
Maintenance of Computer & Equipment	2,135,822.00			2,989,390.00
General Utility Equipment	10,493,406.00			4,968,277.00
Maintenance Lawns & Gardens	45,460.00			166,664.00
Landscaping and gardening	102,775.00			278,750.00
Others (specify)				
Renovation of Electric System & Facilities	4,473,594.00	84,440,128.00		1,297,765.00
f) Prior Period Expenses				
Cummulative Professional Development Allowance	987,800.00			
Examination fees	30,275,242.00			
Misc Expenses	125.00			
Income Tax Demand of Earliar Years	1,528,969.00	32,792,136.00		-
II. PAYMENTS AGAINST EARNMARKED/ENDOWMENT FUNDS				
Contributory Provident Fund:				
Final Payment	-			2,819,759.00
General Provident Fund:				
Loan & Final Payments	37,865,516.00			39,818,501.00
New Pension Scheme:				
Loan & Final Payments	61,237,602.00			1,018,277.00
Subsidiary Funds				
Alumni Association	1,750,850.75			719,713.00
Dean Academic Affairs	10,915,423.00			9,929,305.50
Industrial Estate	795,610.00			821,956.00
Nodal Centre (NTMIS)	-			574,807.00
Project Account	348,666.00			16,824.00
Research & Consultancy Cell	1,356,892.00			1,376,635.00
School of Non Formal Continuing Education	596,442.00			1,703,462.00

Student Welfare Fund	953,563.00		964,951.00	
TEQIP - II	34,163,245.00		19,118,216.00	
Text Book Lending Bank	26,280.00	150,010,089.75	21,231.00	78,903,637.50
III. PAYMENTS AGAINST SPONSORED PROJECTS/SCHEMES				
IV. PAYMENTS AGAINST SPONSORED FELLOWSHIPS/SCHOLARSHIPS				
Institute				
QIP Stipend & Contingency	2,007,245.00		2,194,007.00	
QIP Poly technique	230,925.00		421,995.00	
UGC Fellowship	3,627,858.00		689,149.00	
DST New Delhi/ Inspire	4,017,877.00		-	
Fellowship (CSIR)	402,466.00		-	
Board of Apprenticeship Training	103,598.00		-	
Raman Fellowship For Post Doctoral studies	2,290,928.00		-	
AIEEE Schlorship	1,785,000.00		-	
Outside Scholarship	-		4,711,859.00	
CSIR Delhi	-		436,482.00	
Subsidiaries				
Project Account :				
Project (Running)	26,480,233.00	40,946,130.00	15689402.5	24,142,894.50
V. INVESTMENTS AND DEPOSITS MADE				
VI. TERM DEPOSITS WITH SCHEDULED BANKS				
VII. EXPENDITURE OF FIXED ASSETS AND CAPITAL WORK IN PROGRESS				
a) Fixed Assets				
1. Land	-			
2. Buildings	26,819,631.00		91,538,077.48	
3.Plant, machinery and equipment	140,949,950.00		124,587,517.00	
4. Vehicles	-		-	
5. Furniture and fixtures	26,706,864.61		16,064,127.00	
6. Office equipment	1,896,470.00		246,434.00	

7. Computer peripherals	46,410,128.64		21,436,950.00	
8. Electric installations	757,757.00		11,178,358.00	
9. Library books	302,197.00		65,162,685.00	
10. Tube wells and water supply	-		1,251,445.00	
11. Other fixed assets	27,020,157.00		36,336,529.00	
b) Intangible Asset				
12. Computer Software	2,242,800.00		-	
13. E-Journals	3,674,129.13	276,780,084.38	-	367,802,122.48
VIII. OTHER PAYMENTS INCLUDING STATUTORY PAYMENTS				
Income Tax	35,800,773.00		34,834,619.00	
Sales Tax	4,837,562.00		4,520,349.00	
Employees contribution to C.P.F	456,512.00		443,192.00	
Employees contribution to N.P.S	18,310,772.00		15,802,576.00	
GPF- contribution to employees	31,010,725.00		28,274,509.00	
<u>SUBSIDIARIES</u>				
Project Account - Income Tax	49,961.00		1,143.00	
R&C Cell - Income Tax	1,252,888.00		4,474,977.00	
SNFCE - Income Tax	101,645.00		213,132.00	
Dean Academic Affairs - Income Tax		91,820,838.00	204,999.00	88,769,496.00
<u>IX. REFUND OF GRANT</u>				
<u>X. DEPOSITS AND ADVANCES</u>				
Institute-NPS Payment	5,277.00			
Advance given to Staff	18,046,032.00		13,192,432.00	
Imprest given to Staff	348,000.00		776,607.00	
Festival Advance	-		4,040,000.00	
Advance given to Parties	11,032,902.00		3,064,209.00	
Tax Deducted at Source FY 2013-14	24,004.00		-	
Tax Deducted at Source FY 2014-15	973,180.00		-	
Tax Deducted at Source-Industrial Estate	109,398.00		-	
Tax Deducted at Source-Alumini Association	40,510.00			
<u>Subsidiary</u>				
Subsidiary- Alumni Association - Advance & Imprest	-		-	

Subsidiary-Dean Academics - Advances	36,000.00		231,000.00	
Subsidiary-Project Account - Advance & Imprest	271,228.00		75,016.00	
R&C Cell - Advances & Imprest	891,400.00		3,324,350.00	
R&C Cell - Receivable against Uncleared Cheque	90,980.00		-	
R&C Cell - Receivable from Project Account	-		1,169,073.00	
SNFCE - Advance & Imprest	145,550.00		40,000.00	
Subsidiary-Student Welfare Fund - Advance	86,220.00		15,000.00	
TEQIP - Advances Recoverable	5,353,760.00		4,505,417.00	
Recoverable Deposit- Institute- G.I. for Students	1,528,752.00		1,705,523.00	
Recoverable Deposit- Institute-Group Insurance Scheme	1,059,855.00		384,099.00	
Recoverable Deposit- Institute-Security & Earnest Money	-	40,043,048.00	2,178,016.00	34,700,742.00
<u>XI. OTHER PAYMENTS</u>				
Bank Charges	21,338.00		-	
NMEICT Scheme	422,900.00		582,829.00	
Prime Minister Relief Fund	-		306,938.00	
NIMSET Scheme	50,000.00		-	
ICCCT Seed			50,000.00	
TEQUP II STIPEND	3,229,639.00		1,069,570.00	
Cancelled Cheques	2,048,381.00		520,837.00	
DST New Delhi	5,869,024.00		1,497,635.00	
Examination Fees	13,357,014.00		-	
Motor Cycle Loan Recovery			69,600.00	
House and buiding recovery employees	327,000.00		327,000.00	
World Environment Day	60,000.00		50,000.00	
L.I.C.	893,821.00		1,027,243.00	
Other Liabilities (Misc. Receipt Transfer)	12,050,872.00		17,079,671.00	
Employees contribution to khadi	9,477.00		26,691.00	
Employees loan from SBI	504,492.00		512,598.00	
Merit Scholarship	-		720,000.00	
State Scholarship	1,447,331.00		-	
Reliance Dairy Food Ltd Stipend	-		24,600.00	
Revenue Stamp (Stamp Fees)	9,586.00		9,897.00	
SERB	-		115,581.00	

Teacher Association Subscription	70,500.00			
Caution Money	2,156,388.00		130,000.00	
Earnest Money/ Security Money	3,158,126.00		-	
Tequip II	3,090,000.00		-	
<u>SUBSIDIARIES</u>				
Alumni Association - Adjustment in Current Asset	33,961.00			
Project Account - Salary Payable	-		217,623.00	
R&C Cell - Expenses Payable	-		47,261.00	
SNFCE- C-Dac	477,048.00			
Project Account - Transferable amount to R&C Cell	624,455.00			
R&C Cell - Testing & Consultancy (Pending)	15,025,739.00		22,172,247.00	
R&C Cell - Transferable amount to Project Account				
R&C Cell - CCB	-	64,937,092.00	18,500.00	46,576,321.00
<u>VCLOSING BALANCE:</u>				
Cash in Hand		9,995.00		-
Current Account:				
State Bank of India - Fees Account	11,300,000.00		302,448,897.00	
State Bank of India - Power Jyoti	5,531.45		3,922,679.22	
State Bank of India - New Fees Account	114,190,645.00	125,496,176.45		306,371,576.22
Savings Account & Autosweep:				
Vijaya Bank	66,688,925.37	66,688,925.37	95,939,685.61	95,939,685.61
<u>In Fixed Deposits with Banks:</u>				
Institute				
Bank of Baroda	94,988,809.00		53,048,536.00	
State Bank of India	279,367,320.00		90,000,000.00	
Vijaya Bank	-		-	
Caution Money				
State Bank of India	1,727,804.00		1,727,804.00	
Vijaya Bank	8,500,000.00	384,583,933.00	8,500,000.00	153,276,340.00
<u>Earmarked and Endowment Fund:</u>				
Contributory Provident Fund:				
Contributory Provident Fund (SB)	1,683,818.12		1,174,854.00	

Contributory Provident Fund FDR	7,000,000.00	7,000,000.00	7,000,000.00	
<u>General Provident Fund:</u>				
General Provident Fund - with Treasury	1,007,349.00	1,007,349.00	1,007,349.00	
General Provident Fund - with Vijaya Bank (FDR)	154,996,556.00	154,996,556.00	154,996,556.00	
General Provident Fund - with Bank of Baroda (FDR)	26,249,816.00	26,249,816.00	26,249,816.00	
General Provident Fund - with Vijaya Bank (SB)	9,804,734.00	9,804,734.00	(1,367,939.00)	
<u>Corpus Fund (SBI-SB)</u>	3,836,992.00	3,836,992.00	3,690,375.00	
<u>Development/Renewal Fund (SBI-SB)</u>	639,690.00	639,690.00	615,246.00	
<u>Maintenance Fund (SBI-SB)</u>	639,690.00	639,690.00	615,246.00	
<u>Staff Development Fund (SBI-SB)</u>	1,279,149.00	1,279,149.00	1,230,271.00	
<u>New Pension Scheme:</u>				
Vijaya Bank Saving Account	(33,701,536.00)	(33,701,536.00)	4,142,509.00	
Vijaya Bank Autosweep FDR	54,633,247.00	54,633,247.00	54,633,247.00	253,987,530.00
<u>In Subsidiary Funds:</u>				
<u>Admission Committee</u>	704,312.00	704,312.00	704,312.00	
<u>Alumni Association</u>				
Savings Account	3,579,763.50	3,579,763.50	2,337,754.50	
Fixed Deposits	5,341,505.00	5,341,505.00	5,152,560.00	
<u>Dean Academic Affairs</u>	44,614,721.50	44,614,721.50	11,487,242.50	
<u>G.K. Agarwal Trust :</u>				
Savings Account:	209,620.00	209,620.00	180,286.00	
Fixed Deposits	300,000.00	300,000.00	300,000.00	
<u>Industrial Estate</u>				
Current Account	6,064,447.26	6,064,447.26	2,402,184.26	
Fixed Deposits	30,066,016.00	30,066,016.00	27,300,000.00	
<u>Kitchen Project</u>	6,272.00	6,272.00	6,272.00	
<u>Nodal Centre</u>	81,700.00	81,700.00	78,527.00	
<u>P.D.T.C.</u>	186,218.00	186,218.00	178,987.00	
<u>Project Account</u>				
Savings & AutoSweep Account	17,419,181.78	17,419,181.78	9,364,912.78	

Fixed Deposits	36,436,524.00		33,409,974.00	
<u>Research & Consultancy Cell :</u>				
Savings & AutoSweep Account	6,389,793.55		10,576,963.55	
Fixed Deposits	205,114,936.00		177,820,502.00	
<u>School of Non Formal Continuing Education :</u>				
Current Account	5,028,252.00		4,763,013.00	
Fixed Deposits	9,802,189.00		9,800,000.00	
<u>Sponsored Gold Medal</u>				
Savings Account	65,873.00		37,861.00	
Fixed Deposits	388,488.00		388,488.00	
<u>Student Welfare Fund :</u>				
Savings Account	6,190,808.00		3,255,072.00	
Fixed Deposits	12,582,050.00		12,582,050.00	
<u>TEQIP - II</u>	39,459,519.00		4,278,311.00	
<u>Text Book Lending Bank</u>	481,083.00	430,513,272.59	444,555.00	316,849,827.59
<u>TOTAL</u>		2,770,965,391.73		2,632,380,147.99

PARTNER

DY. REGISTRAR A/CS

REGISTRAR

ANNEXURES

Anenxure-1	NIT Council
Anenxure-2	Board of Governors
Anenxure-3	Finance Committee
Anenxure-4	Building and Works Committee
Anenxure-5	Senate
Anenxure-6	Externally Funded Research Projects
Anenxure-7	Details of Testing & Consultancy
Anenxure-8	TEQIP II grant PROJECT/Short Term Course/Conferences
Anenxure-9	CIR Experimental Facility
Annexure-10	CMDR Facility

ANNEXURE-1

Council of National Institute of Technology (NIT Council)

- | | | |
|--------|---|----------------------------------|
| (i) | Minister in charge, Department of Higher Education, Ministry of Human Resource Development, Government of India | Chairman
(Ex-officio) |
| (ii) | Secretary, Department of Higher Education, Ministry of Human Resource Development, Government of India | Vice-Chairman
(Ex-officio) |
| (iii) | The Chairperson of National Institutes of Technology located at Agartala (Tripura), Allahabad (Uttar Pradesh), Bhopal (Madhya Pradesh) Calicut (Kerala), Durgapur (West Bengal), Hamirpur (Himachal Pradesh), Jaipur (Rajasthan), Jalandhar (Punjab), Jamshedpur (Jharkhand), Kurukshetra (Haryana), Nagpur (Maharashtra), Patna (Bihar), Raipur (Chhattisgarh), Rourkela (Orissa), Silchar (Assam), Srinagar (Jammu & Kashmir), Surat (Gujarat), Surathkal (Karnataka), Tiruchirapalli (Tamil Nadu), and Warangal (Andhra Pradesh) | Member
(Ex-officio) |
| (iv) | Director of every National Institute of Technology | Member (Ex-officio) |
| (v) | The Chairman, University grants Commission | Member (Ex-officio) |
| (vi) | The Director General, Council for Scientific and Industrial Research | Member (Ex-officio) |
| (vii) | Secretary, Department of Bio-Technology, Government of India | Member (Ex-officio) |
| (viii) | Secretary, Department of Atomic Energy, Government of India | Member (Ex-officio) |
| (ix) | Secretary, Department of Information Technology, Government of India | Member (Ex-officio) |
| (x) | Secretary, Department of Space, Government of India | Member (Ex-officio) |
| (xi) | Chairman, All India Council for Technical Education | Member (Ex-officio) |
| (xii) | Not less than three but not more than five persons to be nominated by the Visitor, at least one of whom shall be a woman, having special knowledge or practical experience in respect of education, industry, science or technology | Member |
| (xiii) | Three Members of Parliament, of whom two shall be chosen by the House of the People and one by the Council of States. | Member |
| (xiv) | Two Secretaries to the State Government, from amongst the ministries of departments of that Government dealing with technical education where the Institutes are located | Member (Ex-officio) |
| (xv) | Financial Advisor, Ministry of Human Resource Development, Government of India | Member (Ex-officio) |
| (xvi) | Joint Secretary (Technical)/Additional Secretary (Technical), Department of Higher Education, Ministry of Human Resource Development, Government of India | Member Secretary
(Ex-officio) |

ANNEXURE-2

Board of Governors

The Board of Governors of the Institute consists of the following members:

- | | | |
|-------|---|-------------|
| (i) | The Chairperson to be nominated by the Visitor | Chairperson |
| (ii) | The Director, ex-officio | Member |
| (iii) | Two persons not below the rank of the Joint Secretary to the Government of India to be nominated by the Central Government from amongst persons dealing with technical education and finance | Member |
| (iv) | Two persons to be nominated by the Government of the State in which the Institute is situated, from amongst persons, who in the opinion of that Government, are technologist or industrialist of repute | Member |
| (v) | Two persons, at least one of whom shall be a women, having special knowledge or practical experience in respect of education, engineering or science to be nominated by the Council | Member |
| (vi) | One professor and one assistant professor or lecturer of the Institute to be nominated by the Senate | Member |
| (vii) | Registrar | Secretary |

ANNEXURE-3

Finance Committee

The Finance Committee Consists of the following persons:

- | | |
|--|-------------------------------|
| (i) The Chairperson Board of Governor | Chairman (Ex-Officio) |
| (ii) The Director | Member (Ex-Officio) |
| (iii) Joint Secretary dealing with National Institutes of Technology or his nominee and Finance Advisor (Human Resource Development) or his nominee members | Member |
| (iv) Two persons nominated by the Board from amongst its members | Member |
| (v) The Registrar (Provided that in addition to the above, the Chairman may, in consultation with the Director, co-opt a member as and when found necessary) | Member Secretary (Ex-Officio) |

ANNEXURE-4

Building & Works Committee

The Building & Works Committee Consists of the following persons:

- | | | |
|-------|--|----------------------------------|
| (i) | The Director of the Institute | Chairman |
| (ii) | One member nominated by the Central Government not below the rank of Director or Deputy Secretary | Member |
| (iii) | One member nominated by the Board of Governors | Member |
| (iv) | Registrar, Ex-Officio | Member Secretary
(Ex-Officio) |
| (v) | Dean, Planning and Development or similar position | Member |
| (vi) | One expert each from Civil and Electrical Engineering Wing of the Central or State Government or any autonomous body of repute | Member |

ANNEXURE-5

Senate

The Senate of the Institute consists of the following persons:

- | | | |
|-------|---|-----------------------|
| (i) | The Director of the Institute | Chairman (Ex-Officio) |
| (ii) | The Deputy Director | Member (Ex-Officio) |
| (iii) | The professors appointed or recognized as such by the Institute for the purpose of imparting instructions in the Institute | Member |
| (iv) | Three persons, one of whom shall be a woman, not being employees of the Institute, to be nominated by the Chairperson in consultation with the Director, from amongst educationists of repute, one each from the field of science, engineering and humanities | Member |
| (v) | Registrar | Secretary |
| (vi) | Such other members of the staff as may be laid down in the Statutes | |

ANNEXURE-6
Externally Funded Research Project (Upto 31.03.2015)

Sl. No	Title of Project	Sponsoring Agency	Name of Coordinator	Department	Sanction No. /Date	Duration	Sanctioned Amount in ₹	Expenditure (F.Y. 2014-15)	Status
1	Air Quality Monitoring at Two Station of Allahabad City	UPPCB, Lucknow	Prof. R.C. Vaishya	Civil Engineering	F02241/C.L./8/96 Dt. 05.06.2006	Continue	3969500.00	499982.00	Ongoing
2	Ambient Air Quality Monitoring and Noise Monitoring at three locations in Allahabad City	UPPCB, Lucknow	Prof. R.P. Singh	Civil Engineering	F52976/CL/161/MN NIT/Air Monitoring (khumbh)/2014	1 Year	712000.00	0.00	Ongoing
3	Antecedents and Consequences of Investment Behaviour amongst Urban Poor: A Study of Uttar Pradesh Cylindrical Electrolytic Magnetic Abrasive Machining (CEMAM): Development, Modeling and Optimization	ICSSR, New Delhi	Dr. Tanuj Nandan	School of Management Studies	F. No. 02-202(GEN)/2014-2015/ICSSR/RPR Dt. 24.11.2014	2 Years	800000.00	24000.00	Ongoing
4	nano-herbal composites in biosynthesis inhibition in dermatophytes	CSIR, New Delhi	Prof. Vinod Yadava	Mechanical Engineering	22(0644)/13/EMR-II Dt. 31.10.2013	3 Years	2462400.00	38234.00	Ongoing
5	Delineating the role of nano-herbal composites in biosynthesis inhibition in dermatophytes	SERB, New Delhi	Dr. Rohit Kumar Mishra	Center for Medical Diagnostic and Research	SB/YS/LS-44/2014 Dt. 10.10.2014	3 Years	2500000.00	258500.00	Ongoing
6	Design and Development of an FPGA Controller for PEM Fuel Cell Power Systems	DAE, Mumbai	Dr. P. Karuppanan	Electronics & Communication Engineering	No. 34/14/53/2014-BRNS/2067-II Dt. 12.12.2014	3 Years	1889200.00	75750.00	Ongoing

7	Design and Development of Low Cost Plastic Devices for Electronics and Photonic Application	DRDO, New Delhi	Prof. P. Chakrabarti	Electronics & Communication Engineering	ERIP/ER0803699/M/01/1423 Dt. 16.04.12	3 Years	3646000.00	1455304	Ongoing
8	Design and study of the sensitivity of optical biosensors having matamaterials	SERB, New Delhi	Dr. Yogendra Kumar Prajapati	Electronics & Communication Engineering	SB/FTP/ETA/0478/2012 Dt. 04.06.2014	3 Years	2339000.00	327650.00	Ongoing
9	Development of Eucalyptus Globules Oil Containing Bio-adhesive Polymeric Nanoparticles and Estimation of its Cytotoxicity Potential and Assay against Biofilm	SERB, New Delhi	Dr. Vishnu Agrawal	Biotechnology	SR/FT/SL-59/2011 Dt. 15.05.2012	3 Years	2076000.00	557603.00	Ongoing
10	Domain Specific Functional Investigation of YB-1(a cold shock domain protein) as Interactors Prospective Therapeutic Targets in Adenocarcinoma of colon	SERB, New Delhi	Dr. Ashutosh Mani	Biotechnology	SB/YS/LS-107/2014 Dt. 12.03.15	3 Years	3000000.00	150000.00	Ongoing
11	Electro Discharge Grinding and Development and Optimization	AR & DB, New Delhi	Prof. Vinod Yadava	Mechanical Engineering	DRDO/08/2031574/M/1 Dt. 22.10.10	3 Years	2718500.00	72530.00	Ongoing
12	Experimental and Computational Studies on Human Airways	SERB, New Delhi	Prof. Anuj Jain	Applied Mechanics	SR/S3/MERC/0073/2012 Dt. 02.06.14	3 Years	3848200.00	174115.00	Ongoing

13	Flow Control in Complex Ducts using Synthetic Jets	SERB, New Delhi	Dr. A. R. Paul	Applied Mechanics	SERB/FTP/ETA-24/2013 Dt. 16.08.2013	3 Years	2393000.00	1186354.00	Ongoing
14	Groundwater Modeling Under climatic Changes and Uncertainty	SERB, New Delhi	Dr. Raj Mohan Singh	Civil Engineering	SB/S3/MMER/0012/2014 Dt. 17.09.2014	3 Years	2096400.00	206510.00	Ongoing
15	Integrated bio-hydrogen production from renewable biomass and biological wastes using microbial strains	DBT, New Delhi	Dr. Anjana Pandey	Biotechnology	BT/PR8674/PBD/26/389/2013 Dt. 28.03.14	3 Years	4819000.00	904878.00	Ongoing
16	New Horizons for Unorganized Manufacturing Sector in India: An empirical Study in Uttar Pradesh and Maharashtra	ICSSR, New Delhi	Dr. Ravindra Tripathi	Humanities & Social Sciences	F.No. 02/30/2014-15/RPR Dt. 22.04.2014	1 Year & 6 Month	700000.00	119791.00	Ongoing
17	Numerical Simulation of Elliptic Interface Problems Arising in Steady State Heat Conduction in Composite Systems. Organic-Inorganic Hybrid Material Based on Metal Complexes and Polyoxometalates, their Characterization and Application in Catalysis and Gass Absorption	CSIR, New Delhi	Dr. Manoj Kumar	Mathematics	No. 25(0238)/14/EMR-II Dt. 30.10.14	3 Years	1150400.00	0.00	Ongoing
18		CST, U P Lucknow	Prof. S. S. Narvi	Chemistry	CST/SERPD/D-1221 Dt. 13.09.2012	3 Years	656000.00	289598.00	Ongoing

19	Process Development for the Enzymatic Conversion of Grease into Long Chain Fatty Acid	DBT, New Delhi	Dr. Sangeeta Negi	Biotechnology	BT/PR4935/PID/6/65 5/2012 Dt. 25.07.2014	3 Years	4642600.00	0.00	Ongoing
20	Rapid assay for simultaneous detection of toxins of Staphylococcus aureus and clostridium Botulinum in Dairy products	SERB, New Delhi	Dr. Seema Nara	Biotechnology	SB/YS/LS-261/2013 Dt. 15.05.2014	3 Years	2380000.00	474627.00	Ongoing
21	Response of Curved Bridges with Isolation Bearings	SERB, New Delhi	Dr. Goutam Ghosh	Civil Engineering	SB/FTP/ETA-290/2012 Dt. 21.05.2013	3 Years	1128000.00	179211.00	Ongoing
22	Solar Photovoltaic Array Power Conversion Using Embedded Cascaded Multilevel Inverter	SERB, New Delhi	Dr. Rajesh Gupta	Electrical Engineering	SR/S3/EEECE/0053/2012 Dt. 06.09.2012	3 Years	3436600.00	1257206.00	Ongoing
23	Sorghum Stover Based Biorefinery for fuels and chemicals	MNRE, New Delhi	Dr. Sangeeta Negi	Biotechnology	7/176/2011-BF Dated 05.03.2012		3876400.00	2240636.00	Ongoing
24	Study of antibody and human polymorphonuclear neutrophils (PMN) mediated phagocytosis of PNAG positive Staphylococcus epidermidis biofilms and estimation of caspase-3 like protease (clp) production (RGY)	DBT, New Delhi	Dr. Vishnu Agrawal	Biotechnology	BT/PR6175/GBD/27/ 367/2012 Dt. 15.05.2013	3 Years	2707000.00	748014.00	Ongoing

25	Study of arachidonic acid pathway in human visceral leishmaniasis: therapeutic efficacy of -a linoleic acid as a dietary supplement with sodium antimony	SERB, New Delhi	Dr. Ambak kumar Rai	Biotechnology	SB/YS/LS-234/2013 Dt. 15.05.2014	3 Years	2050000.00	421044.00	Ongoing
26	Study of Laser Trepan Drilling of Advanced Engineering Materials	AR & DB, New Delhi	Dr. A. K. Dubey	Mechanical Engineering	Ard/b/01/2031751/M/I Dt. 12.12.2014	3 Years	2955000.00	200000.00	Ongoing
27	Synthesis and optical characterization of low dimension systems	SERB, New Delhi	Dr. A. K. Ojha	Physics	SR/FTP/PS-038/2011 Dt. 01.11.2013	3 Years	2314000.00	326584.00	Ongoing
28	DFT Study of Neutral and Zwitterionic forms of Biologically Important Molecules in Polar and Non-Polar Environments and Calculation of Dissociation Constants Chitosan Derivatives Containing azo Based Schief based: Synthesis, Characterization, Spectroscopic and Antimicrobial studies	CSIR, New Delhi	Dr. A. K. Ojha	Physics	No. 03(1179)/10/EMR-II dated 15.11.10	3 Year & 6 Month	10,37,327	219182.00	Extended
29	Harassing PGPRs from Indo Gangetic Region of UP for growth promotion and disease suppression in rice and pigeon pea	CSIR, New Delhi	Prof. P. K. Dutta	Chemistry	02(0059)/12/EMR-II Dt. 16.05.2012	3 Years & 6 Month	1645709.00	515591.00	Extended
30	Region of UP for growth promotion and disease suppression in rice and pigeon pea	DBT, New Delhi	Dr. Shivesh Sharma	Biotechnology	BT/PR469/AGR/05/5 45/2011 Dt. 30.12.2011	3 Years & 6 Month	3939000.00	684667	Extended

31	HR Mapping amongst women self-helps in Uttar Pradesh	Competence	ICSSR, New Delhi	Dr. Tripti Singh	School of Management Studies	02/240/2012/RP Dt. 04.07.2013	1 Year & 6 Month	500000.00	206693.00	Extended
32	Multi-Partnership Model of Self Sustainable Shelters for Urban Homeless Poor		HSM, New Delhi	Prof. Geetika	School of Management Studies	HSMI/R&D/2012-13 Dt. 30.04.2013	2 Years	1600000.00	414803.00	Extended
33	Ambient Air Quality Monitoring and Noise Monitoring Project		UPPCB, Lucknow	Prof. R.P. Singh	Civil Engineering	F-96469/C.L./161/Air Dated 20.12.11	2 Years	1424000.00	381096.00	Completed
34	Bio-restoration technology based on the management of plant microbe soil interactions for the restoration of degraded ecosystems.		DBT, New Delhi	Dr. Shivesh Sharma	Biotechnology	BT/PR7525/BCE/8/9 72/2013 Dated 27.09.2013	1 Years & 6 Month	5,96,190	478079.00	Completed
35	Degradation of days wastewater Through Ozonation and anaerobic		DST, New Delhi	Ms. Smita Venkatesh	Chemistry	SR/WOS-A/ET-48/2011 (G) Dated 17.11.11	3 Years	14,40,000	418059.00	Completed
36	Graded Modules Over Rings Graded By Finitely Generated Abelian Groups		DST, New Delhi	Dr. Shiv Dutt Kumar	Mathematics	SR/S4/MS-642/10-1 dated 27.09.2011	3 Years	10,04,640	75650.00	Completed
37	Hydrogen Production through biological routes		MNRE, New Delhi	Dr. Anjana Pandey	Biotechnology	103/131/2008-NT Dated 16.12.2009	5 Years	45,50,800	129063.00	Completed
38	Functionalization of wheat grains for enhancement of bioavailable micronutrients through reduction of phytic acid food inhibitor		DST, New Delhi	Dr. Nand Kumar Singh	Biotechnology	SR/FT/LS-107/2009(G) Dated 06.09.2011	3 Years	19,58,000	256475.00	Completed

39	Finite Element Approximation and Computer Implementation for Non-Linear Elliptic Singular perturbation Problems with engineering Application Process Development for cellulosic Ethanol Production from Himalayan Chir Pin (Pinus Roxburghii) Forest Waste Studies on Reactivity of Selected Drugs and Correlation with Their Activity Synthesis and characterization of Metal-Oxide	CSIR, New Delhi	Dr. Manoj Kumar	Mathematics	25(0187)/10/EMR-II Dated 31.08.2010	3 Years	11,91,613	1073494.00	Completed	
40	Production from Himalayan Chir Pin (Pinus Roxburghii) Forest Waste Studies on Reactivity of Selected Drugs and Correlation with Their Activity Synthesis and characterization of Metal-Oxide	DST, New Delhi	Dr. Sangeeta Negi	Biotechnology	SR/FT/LS-112/2009 (G) dated 30.09.2011	3 Years	19,90,000	492374.00	Completed	
41	Production from Himalayan Chir Pin (Pinus Roxburghii) Forest Waste Studies on Reactivity of Selected Drugs and Correlation with Their Activity Synthesis and characterization of Metal-Oxide	DST, New Delhi	Ms. N.C. Bhanumati Devi	Chemistry	SR/WOS-A/CS-80/2011(G) dated 12.03.12	3 Years	20,00,000	603806.00	Completed	
42	Semiconducting Nanostructures with appropriate Doping for various application	UGC, New Delhi	Prof. P. P. Sahay	Physics	FN 40-450/2011(SR) Dated 17.10.11	3 Years	9,98,960	336708.00	Completed	
Total								3141439.00	8473861.00	

Externally funded Research Project Sanctioned for the Period of 01.04.2014 to 31.03.2015

Title of the Projects		Name of the Funding Agency	Name of Principal Investigator	Department	Sanction No.	Sanction Date	Sanctioned Amount in ₹
A) List of Sanctioned Project in Financial Year 2014-15							
1	New Horizons for Unorganized Manufacturing Sector in India: An empirical Study in Uttar Pradesh and Maharashtra.	ICSSR, New Delhi	Dr. Ravindra Tripathi	Humanities & Social Science	F.No. 02/30/2014-15/RPR	22/04/2014	7,00,000.00
2	Rapid assay for simultaneous detection of toxins of Staphylococcus aureus and clostridium Botulinum in Dairy products.	SERB, New Delhi	Dr. Seema Nara	Biotechnology Technology	SB/YLS-261/2013	15/05/2014	23,80,000.00
3	Study of arachidonic acid pathway in human visceral leishmaniasis;therapeutic efficacy of -a linoleic acid as a dietary supplement with sodium antimony	SERB, New Delhi	Dr. Ambak kumar Rai	Biotechnology Technology	SB/YLS-234/2013	15/05/2014	20,50,000.00
4	Experimental and Computational Studies on Human Airways.	SERB, New Delhi	Prof. Anuj Jain	Applied Mechanics	SR/S3/MERC/0073/2012	02/06/2014	38,48,200.00
5	Design and study of the sensitivity of optical biosensors having matamaterials.	SERB, New Delhi	Dr. Yogendra Kumar Prajapati	Electronics Communication Engineering	SB/FTP/ETA/0478/2012	04/06/2014	23,39,000.00
6	Process Development for the Enzymatic Conversion of Grease into Long Chain Fatty Acid.	DBT, New Delhi	Dr. Sangeeta Negi	Biotechnology Technology	BT/PR4935/PID/6/655/2012	25/07/2014	46,42,600.00
7	Groundwater System Modeling Under climatic Changes and Uncertainty.	SERB, New Delhi	Dr. Raj Mohan Singh	Civil Engineering	SB/S3/MMER/0012/2014	17/09/2014	20,96,400.00
8	Delineating the role of nano-herbal composites in ergosterol biosynthesis inhibition in dermatophytes.	SERB, New Delhi	Dr. Rohit Kumar Mishra	Center for Medical Diagnostic and Research	SB/YLS-44/2014	10/10/2014	25,00,000.00
9	Numerical Simulation of Elliptic Interface Problems Arising in Steady State Heat Conduction in Composite Systems.	CSIR, New Delhi	Dr. Manoj Kumar	Mathematics	No. 25(0238)/14/EMR-II	30/10/2014	11,50,400.00

10	Antecedents and Consequences of Investment Behavior amongst Urban Poor: A Study of Uttar Pradesh.	ICSSR, New Delhi	Dr. Tanuj Nandan	School of Management	F. No. 02-202(GEN)/2014-2015/ICSSR/RPR	24/11/2014	8,00,000.00	
11	Design and Development of an FPGA Controller for PEM Fuel Cell Power Systems.	DAE, Mumbai	Dr. P. Karuppanan	Electronic Communication Engineering	No. 34/14/53/2014-BRNS/2067-II	12/12/2014	18,89,200.00	
12	Study of Laser Trepan Drilling of Advanced Engineering Materials.	AR & DB, New Delhi	Dr. A. K. Dubey	Mechanical Engineering	Ardb/01/2031751/M/I	12/12/2014	29,55,000.00	
13	Ambient Air Quality Monitoring and Noise Monitoring at three locations in Allahabad City.	UPPCB, Lucknow	Prof. R.P. Singh	Civil Engineering	F52976/CL/161/MNNIT/Air Monitoring (khumbh)/2014	19/12/2014	7,12,000.00	
14	Domain Specific Functional Investigation of YB-1(a cold shock domain protein) Integrators as Prospective Therapeutic Targets in Adenocarcinoma of colon.	SERB, New Delhi	Dr. Ashutosh Mani	Biotechnology	SB/YS/LS-107/2014	12/03/2015	30,00,000.00	
Total								3,10,62,800.00

ANNEXURE-7

Details of Testing & Consultancy 01.04.2014 to 31.03.2015

Sl. No.	DATE	NAME OF AGENCY	TITLE OF PROJECT	NAME OF P.I.	DEPARTMENT	TOTAL AMOUNT RECEIVED IN ₹	EXPENDITURE AMOUNT in ₹
1	23.04.14	L & T Construction, Chennai.	Cube Test	Dr. Priyaranjan Pal	CED	11,236.00	0
2	23.04.14	ACP Tollways Pvt Ltd., Varanasi	Proof of Checking of ROB at 290	Prof. K.K. Shukla	AMD	56,180.00	0
3	23.04.14	Chief Executiv Officer, Cantonment Board Allahabad	Design of culvert and Foundation	Prof. A. K. Sachan	CED	67,416.00	0
4	23.04.14	Essobigi Engineers Pvt Ltd.	Coarse Aggregate & Fire Aggregate Test	Dr. Priyaranjan Pal	CED	13,483.00	0
5	23.04.14	Essobigi Engineers Pvt Ltd.	Brick and Cube Test	Dr. Priyaranjan Pal	CED	4,494.00	0
6	23.04.14	Sterling and Wilson Limited Kolkata	Cube Test	Dr. Priyaranjan Pal	CED	24,719.00	0
7	23.04.14	Sterling and Wilson Limited Kolkata	Cement Test	Dr. Priyaranjan Pal	CED	8,989.00	0
8	23.04.14	M. G. Contractors (P) Ltd., Haryana	Aggregate Test	Dr. Priyaranjan Pal	CED	14,607.00	0
9	23.04.14	U. P. Jal Nigam, Jhanshi	Design of CWR and PH	Prof. A. K. Sachan	CED	67,416.00	0
10	23.04.14	Prayag Power Generation Co. Ltd., Allahabad	Proof Checking of design Drawing for proposed station building od crossing station at KM 1315.5 on manikpur	Prof. K.K. Shukla	AMD	28,090.00	0

11	23.04.14	The Executive Engineer, ban-sagar division Mirzapur	Mix Design M-20 & M-30	Dr. Priyaranjan Pal	CED	56,180.00	0
12	29.04.14	Megha Engineering & Infrastructure Limited, Varanasi	Design of 2100 KI OHT at Varanasi	Prof. A. K. Sachan	CED	73,034.00	0
13	29.04.14	PNC Infratech Limited, Agra	Proof checking of design and drawing od ROB at KM 1332/6-7	Prof. K.K. Shukla	AMD	78,652.00	0
14	29.04.14	Megha Engineering & Infrastructure Limited, Varanasi	Vetting of electrical drawing	Prof. R. K. Singh	EED	44,944.00	0
15	29.04.14	Indian Oil Corporation Limited, Allahabad	Testing (Field Density of Soil)	Er. Vijay Kumar	CED	40,450.00	5,400.00
16	29.04.14	U.P.R.N.N. Ltd., Lucknow	Testing and Consultancy	Er. Vijay Kumar	CED	1,26,405.00	29,800.00
17	29.04.14	North Central Railways, Allahabad	Testing Strength of 0.5 MM Corrugated Sheet	Dr. A. K. Upadhyay	AMD	5,620.00	0
18	29.04.14	Meja Urja Nigam P Ltd. (Meja TPP)	Testing of water Sample	Dr. N.R. Rawal	CED	5,618.00	0
19	29.04.14	Meja Urja Nigam P Ltd. (Meja TPP)	Testing of water Sample	Dr. N.R. Rawal	CED	6,741.00	0
20	29.04.14	Meja Urja Nigam P Ltd. (Meja TPP)	Testing	Er. Vijay Kumar	CED	25,281.00	3,270.00
21	29.04.14	Compton Greaves, Allahabad	Cube Test	Dr. Priyaranjan Pal	CED	4,494.00	0
22	29.04.14	Vinayakkripa Realtors (P) Ltd., Gurgaon	Cube Test	Dr. Priyaranjan Pal	CED	2,247.00	0
23	29.04.14	TVRCL Ltd., Allahabad	Cement Test	Dr. Priyaranjan Pal	CED	6,180.00	0

24	29.04.14	Maa Lalita Entertainment & Developer Pvt. Ltd., Allahabad	Cube Test	Dr. Priyaranjan Pal	CED	2,247.00	0
25	30.04.14	The Executive Engineer, Irrigation Division -First, Allahabad	Mix Design M-25 & M-30	Dr. Priyaranjan Pal	CED	61,798.00	0
26	30.04.14	The Executive Engineer, CPWD, Allahabad	Testing of rock stone and their Identification	Dr. H. K. Pandey	CED	17,978.00	0
27	30.04.14	M/s L & T Construction, Allahabad	Cube Test	Dr. Priyaranjan Pal	CED	51,686.00	0
28	05.05.14	M/s L & T Construction, Chennai.	Aggregate Test	Dr. Priyaranjan Pal	CED	38,202.00	0
29	05.05.14	M/s L & T Construction, Chennai.	Aggregate Test	Dr. Priyaranjan Pal	CED	52,809.00	0
30	10.05.14	M/s Essobigi Engineers P. Ltd., I.O.C.L., Allahabad	Cube Test	Dr. Priyaranjan Pal	CED	2,247.00	0
31	10.05.14	The Executive Engineer, Prantiya Khand, P.W.D., Gyanpur, Bhadohi	Cube Test	Dr. Priyaranjan Pal	CED	2,247.00	0
32	10.05.14	M/s Shiv Mahima Enclave, 13/11 Tashkand Marg, Civil Lines, Alld.	Cube Test	Dr. Priyaranjan Pal	CED	4,494.00	0
33	10.05.14	The Project Manager, NCC Limited, Kalindipuram, IIT Road, Allahabad	Sand Test	Dr. Priyaranjan Pal	CED	4,494.00	0

34	10.05.14	M/s H&C Engineering Consultants, Lucknow	Vetting of staging & foundation of 100KL, 150KL, 200KL & 600KL Tank	Prof. A. K. Sachan	CED	22,000.00	0
35	10.05.14	Engg. Officer, Kanpur Terminal, IOCL, Kalpi Road, Kanpur	Determination of optimum moisture content and maximum dry density	Er. Vijay Kumar	CED	3,371.00	0
36	13.05.14	The Executive Engineer, NH Div.-1, P. W. D. Varanasi	Third party inspection of road work as Varanasi	Prof. R. P. Tiwari	CED	1,49,852.00	49,500.00
37	19.05.14	The AGM (FQA) Meja TPP, Allahabad	Testing of organic matter calcium carbonate PH value soluble sulphate	Er. Vijay Kumar	CED	20,225.00	2,500.00
38	19.05.14	The AGM (FQA) Meja TPP, Allahabad	Testing of organic matter calcium carbonate PH value soluble sulphate	Er. Vijay Kumar	CED	20,225.00	2,550.00
39	19.05.14	The AGM (FQA) Meja TPP, Allahabad	Grain size analysis, liquid and plastic limit, shrinkag limit	Er. Vijay Kumar	CED	1,25,281.00	16,965.00
40	20.05.14	The Asst. Executive Engg., Allahabad central sub - division III CPWD, Allahabad	Mix design M-25 (with and without admixture)	Dr. Priyaranjan Pal	CED	61,798.00	0
41	20.05.14	The Asst. Vigilance Officer for General Manager, CORE, Allahabad	Concrete ratio, Mortar Ratio and Steel test	Dr. Priyaranjan Pal	CED	28,090.00	0
42	22.05.14	The Executive Engineer NH Div.-1 PWD, Varanasi	Third party inspection of road work as Varanasi	Prof. R. P. Tiwari	CED	3,97,685.00	1,28,350.00

43	22.05.14	M/s Vinayak Sonal Grand Infrabuild LLP 36 A.N. Jha George Town, Allahabad	Mix design M-25(with admixture)	Dr. Priyaranjan Pal	CED	33,708.00	0
44	27.05.14	The AGM (FQA) Meja TPP, Allahabad	Grain size analysis and other testing	Er. Vijay Kumar	CED	50,562.00	6,504.00
45	27.05.14	Mr. Vinod Kumar Dwivedi, Karwi	Design of 75KL OHT	Prof. A. K. Sachan	CED	6,000.00	0
46	27.05.14	Mr. A. Raghunath, Project Manager, MEIL - Varanasi	Design of 130KL, 150KL, 280KL & 290KL CWR	Prof. A. K. Sachan	CED	25,000.00	0
47	27.05.14	Mr. Narendra Kumar Gupta, Sadar Road, Karwi	Design of water treatment plant	Prof. A. K. Sachan	CED	18,000.00	0
48	27.05.14	M/s Vision Infratech, Kaushambi	Job Mix	Dr. Shalinee Shukla	CED	18,540.00	0
49	30.05.14	M/s Design Edge Interiors Pvt. Ltd.	Cube Test	Dr. Priyaranjan Pal	CED	2,247.00	0
50	30.05.14	The Project Manager, U.P.P.C.L., Unit-16 Mirzapur	Cement, Aggregate and Brick Test	Dr. Priyaranjan Pal	CED	24,719.00	0
51	30.05.14	The Project Head, 241/17C, Hasting Road, Ashok Nagar, Alld.	Aggregate Test	Dr. Priyaranjan Pal	CED	46,068.00	0
52	30.05.14	The Executive Engineer, U. P. Jal Nigam, 16th Div. Banda	Geotechnical Investigation for OHT at Banda	Prof. R. P. Tiwari	CED	26,966.00	0
53	30.05.14	The Municipal Commissioner, Nagar Nigam, Allahabad	Testing of Paver Blocks and GSB	Prof. R. P. Tiwari	CED	39,326.00	0

54	30.05.14	The Elegant Consulting Engineers, 9/623 Vasundhara, Ghaziabad	Proof checking of ROB	Prof. P. K. Mehta	CED	33,708.00	0
55	30.05.14	The Executive Engineer, U. P. Jal Nigam, Gwalior Road, Jhansi	Design of CWR and PH	Prof. A. K. Sachan	CED	60,000.00	0
56	30.05.14	The Executive Engineer, Construction Division-I, PWD, Allahabad	Design of 30 court room and 20 chamber	Prof. A. K. Sachan	CED	4,98,879.00	0
57	31.05.14	The AGM (FQA) Meja TPP, Allahabad	Minimum and maximum density of sand	Er. Vijay Kumar	CED	5,618.00	0
58	09.06.14	M/s Pratham Enterprises, Adarsh Nagar, Kareli, Allahabd	Geotechnical Investigation Report for OHT	Prof. R. P. Tiwari	CED	11,236.00	0
59	09.06.14	The AGM (FQA) Meja TPP, Allahabad	Grain size analysis and other testing	Er. Vijay Kumar	CED	27,528.00	3,504.00
60	09.06.14	Mr. Naresh Kumar, N.T.P.C.	Testing of Bitumen	Dr. Shalinee Shukla	CED	1,685.00	0
61	09.06.14	The Executive Engineer, Construction Division-I, P.W.D. Pratapgarh	Non-destructive test of rigid pavement	Dr. Rama Shanker	CED	56,180.00	0
62	09.06.14	The AGM (FQA) Meja TPP, Allahabad	Minimum and maximum density of sand	Er. Vijay Kumar	CED	13,483.00	0
63	09.06.14	Flood Works Division, Allahabad	Soil Testing	Prof. R. P. Tiwari	CED	11,236.00	0

64	11.06.14	M/s Crompton Greaves, Gurgaon	Cement Test	Dr. Priyaranjan Pal	CED	8,989.00	0
65	11.06.14	The Project Head, ICI, C&C Mainpuri-JV, Ashok Nagar, Alld.	Mix Design M30	Dr. Priyaranjan Pal	CED	33,708.00	0
66	11.06.14	The Project Head, 241/17C, Hasting Road, Ashok Nagar, Alld.	Cube Test	Dr. Priyaranjan Pal	CED	4,494.00	0
67	11.06.14	The Project Manager, 16 MMM Marg, Setu Bhawan, Lucknow	Steel Bar Test & Cement Test	Dr. Priyaranjan Pal	CED	16,292.00	0
68	11.06.14	M/s Aditi Construction, Lucknow	Cube Test	Dr. Priyaranjan Pal	CED	24,719.00	0
69	11.06.14	The Executive Engineer, Nirman Khand, U.P. Jal Nigam, Allahabad	Steel, Cube, Aggregate & Sand Test	Dr. Priyaranjan Pal	CED	60,674.00	0
70	11.06.14	The Project Manager, Mausam Vihar Project (ADA), Kalindipuram, ITI Road, Allahabad	Mix Design M25 & M30	Dr. Priyaranjan Pal	CED	2,19,102.00	0
71	11.06.14	M/s Nagendra Pratap Singh, 93D/2 Sohbatia Bag, Allahabad	Geotechnical Investigation Report	Prof. R. P. Tiwari	CED	22,472.00	0
72	11.06.14	The Project Manager, Unit-33 C&Ds, U.P. Jal Nigam Kaushambi	Stability analysis of building at Kaushambi	Prof. R. P. Tiwari	CED	67,416.00	10,750.00
73	26.06.14	The AGM (FQA) Meja TPP, Allahabad	Grain size analysis and other testing	Er. Vijay Kumar	CED	50,562.00	6,515.00

74	26.06.14	M/s Construction, Khand, Gomti Nagar, Lucknow	Vijay Vishal	Mix design M-30 with admixture	Dr. Priyaranjan Pal	CED	39,326.00	0
75	26.06.14	Mr. A.K. Lal, Manager Civil, NTPC LTD., Unchahar, Raebareli		Bitumen Testing	Dr. Shalinee Shukla	CED	3,371.00	0
76	26.06.14	M/s Tata Projects Limited, Chintamani Road, George Town, Allahabad		Fine Aggregate Test	Dr. Priyaranjan Pal	CED	13,483.00	0
77	26.06.14	The Executive Engineer, CD-1, PWD, Allahabad		Paver Block Test	Dr. Priyaranjan Pal	CED	16,854.00	0
78	26.06.14	M/s L&T Construction, Chennai		Cube Test	Dr. Priyaranjan Pal	CED	6,742.00	0
79	26.06.14	M/s L&T Construction, Chennai		Cube Test	Dr. Priyaranjan Pal	CED	6,742.00	0
80	26.06.14	M/s L&T Construction, Chennai		Cement Test	Dr. Priyaranjan Pal	CED	8,989.00	0
81	26.06.14	The Project Manager, Unit-33 C&Ds, U.P. Jal Nigam Kaushambi		Brick, Sand, Cube and Aggregate Test	Dr. Priyaranjan Pal	CED	10,674.00	0
82	26.06.14	M/s L&T Construction, Chennai		Cube Test	Dr. Priyaranjan Pal	CED	35,955.00	0
83	26.06.14	The AGM (FQA) Meja TPP, Allahabad		Testing of water sample	Dr. N. R. Rawal	CED	6,741.00	0
84	28.06.14	The AGM (FQA) Meja TPP, Allahabad		Testing of water sample	Dr. N. R. Rawal	CED	6,741.00	0
85	28.06.14	M/s Gannon Dunkerley & Co. Ltd., New Delhi		Permeability Test	Er. Vijay Kumar	CED	7,865.00	0

86	28.06.14	The Project Manager, Unit-33 C&Ds, U.P. Jal Nigam Kaushambi M/s Essobigi Engineers Pvt. Ltd., IOCL, Allahabad	Brick, Sand, Cube and Aggregate Test	Dr. Priyaranjan Pal	CED	10,674.00	0
87	02.07.14	M/s Vision Infratech	Cube Test	Dr. Priyaranjan Pal	CED	13,483.00	0
88	02.07.14	Dy. General Manager, NBCC Ltd., Allahabad	Job Mix Design	Dr. Shalinee Shukla	CED	44,944.00	0
89	15.07.14	The Executive Engineer, Nirman Khand-1, PWD, Allahabad	Aggregate Test	Dr. Priyaranjan Pal	CED	20,225.00	0
90	15.07.14	Mr. Narendra Kumar Gupta, Sadar Road, Karwi, Chitrakoot	Brick Test	Dr. Priyaranjan Pal	CED	3,933.00	0
91	15.07.14	The Executive Engineer, Ground Water Department, Varanasi	Testing of water quality of Obra dam water for drinking purpose	Prof. R. P. Singh	CED	10,113.00	0
92	15.07.14	M/s Hindalco Industries Limited, Renusagar	Preparation for rain water harvesting plan in overexploited block	Dr. H. K. Pandey	CED	49,438.00	0
93	18.07.14	M/s L&T Construction, Chennai	Hydrogeology of the area to access the impact on surface	Dr. H. K. Pandey	CED	56,298.00	0
94	18.07.14	The Executive Engineer, State Division, P.W.D., Banda	Cement Test	Dr. Priyaranjan Pal	CED	8,989.00	0
95	18.07.14	M/s Crompton Greaves, Gurgaon	DLC & PQC Design	Dr. Priyaranjan Pal	CED	61,798.00	0
96	22.07.14		Cube Test & Cement Test	Dr. Priyaranjan Pal	CED	24,719.00	0

97	22.07.14	The Executive Engineer, NH P.W.D., Mirzapur	Third party inspection of road work at Mirzapur	Prof. R. P. Tiwari	CED	80,399.00	25,600.00
98	22.07.14	The Executive Engineer, NH P.W.D., Ghazipur	Third party inspection of road work at Ghazipur	Prof. R. P. Tiwari	CED	3,76,743.00	1,27,500.00
99	26.07.14	M/s Abdul Zakir, 7 Laxmipura, Lalitpur	Design of 15 KL OHT	Prof. A. K. Sachan	CED	5,000.00	0
100	31.07.14	The Assistant Engineer, Allahabad Central Sub Division-I CPWD Aild.	Paver Block Test	Dr. Priyaranjan Pal	CED	16,854.00	0
101	31.07.14	M/s Tata Projects Limited, Ashok Nagar, Hasting Road, Allahabad	Cube Test	Dr. Priyaranjan Pal	CED	2,247.00	0
102	31.07.14	M/s Gannon Dunkerley & Co. Ltd., B-228, Okhla Industrial Area, Phase-I New Delhi	Permeability Test	Er. Vijay Kumar	CED	15,729.00	0
103	31.07.14	M/s L&T Construction, Chennai	Cube Test & Cement Test	Dr. Priyaranjan Pal	CED	22,472.00	0
104	04.08.14	The Executive Engineer, Drainage Division-I Meerut	Third party evaluation of flood protection works	Prof. R. P. Tiwari	CED	11,62,468.00	2,05,500.00
105	04.08.14	The AGM (FQA) Meja TPP, Allahabad	Testing of soil sample	Er. Vijay Kumar	CED	27,528.00	0
106	06.08.14	The Project Head ICI - C&C Mainpuri JV Ashok Nagar, Allahabad	Admixture for mix design M-30	Dr. Priyaranjan Pal	CED	5,618.00	0

107	12.08.14	The Executive Engineer, Saryu Nahar Khand-7, Bahraich	Third party inspection on concurrent evaluation of the project	Dr. R. M. Singh	CED	1,68,765.00	20,200.00
108	12.08.14	M/s Veekay Connectors Pvt. Ltd., Naini, Allahabad	Confirmatory tests of fiber optic splitter with microlens chip	Prof. P. Chakrabarti	ECED	5,618.00	0
109	19.08.14	M/s Gannon Dunkerley & co. Ltd. Meja, Allahabad	Brick Test	Dr. Priyaranjan Pal	CED	4,494.00	0
110	19.08.14	M/s Amit Construction Co., Civil Lines, Allahabad	Proof checking of design of 500 KL capacity RCC overhead tank	Prof. K. K. Shukla	AMD	7,865.00	0
111	26.08.14	M/s Water & Sanitation Support Organization, Lucknow	Study of staffing pattern and capability of U.P. Jal Nigam	Prof. A. K. Sachan	CED	4,49,440.00	0
112	26.08.14	M/s SMS Infrastructure Ltd., 20 IT Park, Parsodi, Nagpur	Testing of soil	Dr. Kumar Venkatesh	CED	11,236.00	0
113	29.08.14	M/s Sangam Structural Ltd., Naini, Allahabad	Compressive strength of cube	Dr. Rakesh Kumar	CED	4,494.00	0
114	29.08.14	M/s Crompton Greaves, Gurgaon	Testing of concrete cube (M-25)	Dr. Rakesh Kumar	CED	6,742.00	0
115	29.08.14	M/s NCC Limited, Mausam Vihar Project (ADA), Kalindipuram, IIIT Road, Allahabad	Mix design M-25	Dr. Rakesh Kumar	CED	33,708.00	0
116	29.08.14	M/s L&T Construction, Chennai	Cube Test M-25	Dr. Rakesh Kumar	CED	4,494.00	0

117	29.08.14	M/s Tata Projects Limited, Chintamani Road, George Town, Allahabad	Projects 47A	Testing of concrete cube	Dr. Rakesh Kumar	CED	4,494.00	0
118	29.08.14	M/s Tata Projects Limited, Chintamani Road, George Town, Allahabad	Projects 47A	Testing of concrete cube	Dr. Rakesh Kumar	CED	13,483.00	0
119	29.08.14	M/s RITES Limited, 63D/1 Shakti Vila, Sona Vihar Colony, Civil Lines, Allahabad		Steel and Aggregate Test	Dr. Rakesh Kumar	CED	33,708.00	0
120	29.08.14	M/s NCC Limited, Mausam Vihar Project (ADA), Kalindipuram, IIIT Road, Allahabad		Mix design of M-25 grade with admixture	Dr. Rakesh Kumar	CED	33,708.00	0
121	29.08.14	The Project Manager, U.P. State Bridge Corporation Ltd., Alld.		Steel, Aggregate, Sand & Cube Test	Dr. Rakesh Kumar	CED	35,955.00	0
122	29.08.14	M/s Prayagraj Power Generation Co. Ltd., Allahabd		Aggregate Test	Dr. Rakesh Kumar	CED	58,427.00	0
123	29.08.14	M/s SMS Infrastructure Ltd., 20 IT Park, Parsodi, Nagpur		Mix design M25 & M35 grade with admixture	Dr. Rakesh Kumar	CED	78,652.00	0
124	29.08.14	The Executive Engineer, U. P. Jal Nigam, Fatehpur		STA for water supply & sanitation	Prof. R. C. Vaishya	CED	5,618.00	0
125	29.08.14	M/s Sterling and wilson limited, Kolkata		Cement Test	Dr. Priyaranjan Pal	CED	8,989.00	0

126	29.08.14	The Garrison Engineer (East), MES, Old Cantonment, Allahabad	Hydrological feasibility of rain water harvesting at Varanasi	Dr. H. K. Pandey	CED	56,180.00	0
127	30.08.14	The Asst. Vigilance Officer, CORE Allahabad	Steel Test & Tile Test	Dr. Priyaranjan Pal	CED	29,214.00	0
128	04.09.14	M/s NCC Limited, Mausam Vihar Project (ADA), Kalindipuram, IIIT Road, Allahabad	Steel Test	Dr. Rakesh Kumar	CED	28,090.00	0
129	10.09.14	The Executive Engineer, CD-2, PWD Mirzapur	Testing for providing job mix for DGBM-1000	Er. Vijay Kumar	CED	24,157.00	0
130	16.09.14	The Executive Engineer, Nirman Khand-3 Mainpuri	M-40 PQC Mix Design	Dr. Priyaranjan Pal	CED	5,618.00	0
131	16.09.14	M/s ICI-C&C Mainpuri JV, 241/17C Hasting Road, Ashok Nagar, Allid.	Testing of Bricks	Dr. Rakesh Kumar	CED	8,427.00	0
132	16.09.14	M/s ICI-C&C Mainpuri JV, 241/17C Hasting Road, Ashok Nagar, Allid.	Fine Aggregate Test	Dr. Rakesh Kumar	CED	13,483.00	0
133	16.09.14	M/s ICI-C&C Mainpuri JV, 241/17C Hasting Road, Ashok Nagar, Allid.	Fine Aggregate Test	Dr. Rakesh Kumar	CED	13,483.00	0
134	22.09.14	M/s Crompton Greaves, Gurgaon	Testing of cubes	Dr. Rakesh Kumar	CED	8,989.00	0
135	22.09.14	M/s Goyala Infra Projects (P) Ltd., New Delhi	Mix design of M-25 with grade	Dr. Rakesh Kumar	CED	28,090.00	0

136	22.09.14	Shri Dinesh Kumar Agarwal, Jhansi	Design of CWR 100 & 150 KL	Prof. A.K. Sachan	CED	10,000.00	0
137	22.09.14	M/s Water & Sanitation Support Organization, Lucknow	Study of staffing pattern and capability of U.P. Jal Nigam	Prof. A.K. Sachan	CED	4,49,440.00	0
138	22.09.14	C.E.O., Cantt Board Jhansi	Design of School Building	Prof. A.K. Sachan	CED	47,191.00	0
139	22.09.14	The Project Manager, U.P. State Bridge Corporation Ltd., Alld.	Testing of Cubes	Dr. Rakesh Kumar	CED	6,742.00	0
140	23.09.14	M/s Tata Projects Limited, 47A Chintamani Road, George Town, Allahabad	Testing of concrete cube	Dr. Rakesh Kumar	CED	24,719.00	0
141	29.09.14	M/s Ranjeet Singh & Co., Mohali	Testing of Aggregate	Dr. Rakesh Kumar	CED	38,202.00	0
142	29.09.14	M/s L&T Construction, Chennai	Testing of concrete cube	Dr. Rakesh Kumar	CED	2,247.00	0
143	29.09.14	M/s L&T Construction, Chennai	Testing of concrete cube	Dr. Rakesh Kumar	CED	4,494.00	0
144	29.09.14	M/s L&T Construction, Chennai	Testing of Non Modular Brick	Dr. Rakesh Kumar	CED	8,427.00	0
145	29.09.14	M/s L&T Construction, Chennai	Testing of Non Modular Brick	Dr. Rakesh Kumar	CED	8,427.00	0
146	29.09.14	M/s L&T Construction, Chennai	Grading of coarse aggregate	Dr. Rakesh Kumar	CED	14,607.00	0
147	29.09.14	M/s Brajesh Kumar Sinha, Ranchi	Mix design M-25	Dr. Rakesh Kumar	CED	33,708.00	0

148	29.09.14	M/s Tata Projects Limited, Chintamani George Town, Allahabad	47A Road, Town, Allahabad	Testing of cement & aggregate	Dr. Rakesh Kumar	CED	1,50,563.00	0
149	29.09.14	SE (NF), Garrison Engineer, Agra	Garrison Engineer, Agra	Checking of design for Radar	Prof. A.K. Sachan	CED	1,12,360.00	0
150	01.10.14	M/s National Roads Development Agency, New Delhi	Rural Development Agency, New Delhi	PMGSY - DPR Checking	Dr. Shalinee Shukla	CED	1,72,673.00	0
151	08.10.14	The Executive Engineer, U.P. Jal Nigam, Banda	Executive Engineer, U.P. Jal Nigam, Banda	Geotechnical Investigation	Er. Vijay Kumar	CED	53,933.00	0
152	16.10.14	The Project Manager C&DS Unit-33, U.P. Jal Nigam, Allahabad	Project Manager C&DS Unit-33, U.P. Jal Nigam, Allahabad	Geotechnical Investigation	Dr. Kumar Venkatesh	CED	7,34,835.00	1,23,960.00
153	16.10.14	The Executive Engineer, U.P. State Industrial Development Corporation, Allahabad	Executive Engineer, U.P. State Industrial Development Corporation, Allahabad	Inspection and site investigation of roads	Dr. Varun Singh	CED	33,708.00	0
154	16.10.14	M/s RITES LIMITES, Lucknow	RITES LIMITES, Lucknow	Testing of water sample	Dr. N. R. Rawal	CED	13,484.00	0
155	25.10.14	Asst. Engineer/HQ/II, NCR Allahabad	Asst. Engineer/HQ/II, NCR Allahabad	Testing a Golvalume Aluminium Corrugated	Dr. S. J. Pawar	AMD	5,618.00	0
156	25.10.14	M/s NCC Limited, Mausam Vihar Project (ADA), Kalindipuram, IIIT Road, Allahabad	NCC Limited, Mausam Vihar Project (ADA), Kalindipuram, IIIT Road, Allahabad	Mix design M-20	Dr. Rakesh Kumar	CED	22,472.00	0

157	25.10.14	The Project Manager, U.P. Project Corporation Limited, Unit-16, Mirzapur	Testing of cement, Coarse Aggregate and Brick	Dr. Rakesh Kumar	CED	26,405.00	0
158	25.10.14	M/s Crompton Greaves, Gurgaon	Testing of Steel	Dr. Rakesh Kumar	CED	35,955.00	0
159	25.10.14	M/s Gannon Dunkerley & Co. Ltd.	Testing of Brick	Dr. Rakesh Kumar	CED	4,494.00	0
160	25.10.14	The Project Engineer, U.P. State Bridge Corporation, Allahabad	Testing of Steel & Cement	Dr. Rakesh Kumar	CED	16,292.00	0
161	25.10.14	M/s Mahakaal Industries, 40 No. Gomti, Chakiya Ghat, Phaphamau, Allahabad	Testing of Fly Ash Bricks	Dr. Rakesh Kumar	CED	3,933.00	0
162	28.10.14	M/s Gupta Enterprises, East of Kailash, New Delhi	Mix design of concrete	Dr. Rakesh Kumar	CED	73,034.00	0
163	28.10.14	M/s MG Contractors Pvt. Ltd., Kohrar Ghat, Allahabad	Testing of Steel	Dr. Rakesh Kumar	CED	53,933.00	0
164	28.10.14	M/s RITES LIMITES, Regional Project Office, Sitapur Road, Lucknow	Testing of water sample	Dr. N. R. Rawal	CED	20,225.00	0
165	28.10.14	The Project Manager, U.P. Project Corporation Limited, Unit-16, Mirzapur	Mix proportion of cement-sand	Dr. N. R. Rawal	CED	11,236.00	0
166	28.10.14	M/s L&T Construction, Chennai	Testing of Brick & Cement	Dr. Rakesh Kumar	CED	32,584.00	0

167	31.10.14	The Executive Engineer, Irrigation Division, Kaushambi	Testing of sand & brick	Dr. Rakesh Kumar	CED	6,180.00	0
168	06.11.14	M/s Siemens Ltd., Fatehpur	Testing of building materials	Dr. Rakesh Kumar	CED	57,866.00	0
169	06.11.14	M/s SMS Infrastructure Ltd., 20 I.T. Park, Parsodi, Nagpur	Testing of soil sample	Dr. Kumar Venkatesh	CED	26,967.00	0
170	06.11.14	M/s Viddut Kumar Jain, Kundan Bhawan, Sec.-23, Indira Nagar, Lucknow	Vetting of desing of 300K.L. & 200 K.L.	Prof. A. K. Sachan	CED	20,000.00	0
171	10.11.14	Executive Engineer, Construction Division-1, P.W.D., Chitrakoot	Testing of stone dust	Dr. Rakesh Kumar	CED	4,494.00	0
172	10.11.14	Secretary, Citizen housing and co-operative society ltd., Sahyog Bhawan, Allahabad	Testing of concrete cube	Dr. Rakesh Kumar	CED	4,494.00	0
173	10.11.14	The Project Manager, U.P. Project Corporation Ltd., Unit-2, Allahabad	Testing of brick and NBT	Dr. Rakesh Kumar	CED	30,337.00	0
174	10.11.14	M/s MGCPL Ltd., Meja, Allahabad	Testing of Steel	Dr. Rakesh Kumar	CED	44,944.00	0
175	12.11.14	AGM (FQA), Meja TPP, Allahabad	Testing of soil	Dr. Kumar Venkatesh	CED	48,877.00	0
176	19.11.14	M/s NCC Limited, Mausam Vihar Project (ADA), Kalindipuram, IIIT Road, Allahabad	Testing of concrete cube	Dr. Rakesh Kumar	CED	2,247.00	0

177	19.11.14	M/s NCC Limited, Mausam Vihar Project (ADA), Kalindipuram, IIIT Road, Allahabad	Testing of concrete cube	Dr. Rakesh Kumar	CED	4,494.00	0
178	24.11.14	M/s Bridge & Roof Company (I) Ltd., Meja Thermal Power Plant, Allahabad	Testing of water sample	Dr. N. R. Rawal	CED	13,482.00	0
179	26.11.14	AGM (FQA), Meja TPP, Allahabad	Testing of water sample	Dr. N. R. Rawal	CED	6,741.00	0
180	26.11.14	Executive Engineer, Rural Engineering Department, Allahabad	Mix proportion of cement sand	Dr. N. R. Rawal	CED	11,236.00	0
181	26.11.14	Manager (FQA), MUNPL, Allahabad	Testing of water sample	Dr. N. R. Rawal	CED	6,741.00	0
182	26.11.14	M/s Prayagraj Power Generation Company Ltd., Lohgara, Bara, Allahabad	Testing of two samples of stone	Dr. Rakesh Kumar	CED	22,472.00	0
183	28.11.14	M/s Crompton Greaves, Gurgaon	Testing of concrete cube, cement, coarse aggregate & fine aggregate	Dr. Rakesh Kumar	CED	52,810.00	0
184	28.11.14	M/s ACE Pipeline Contracts Pvt. Ltd., Shahdol Phulpur pipeline project, Allahabad	Testing of brick and mix design of concrete	Dr. Rakesh Kumar	CED	61,236.00	0
185	28.11.14	M/s Baba Builders, 218D, Jayantipur Sulem Sarai, Allahabad	Testing of Nominal mix design of concrete	Dr. Rakesh Kumar	CED	28,090.00	0

186	28.11.14	M/s L&T Construction, Chennai	Testing of non modular brick, fine aggregate & concrete aggregate	Dr. Rakesh Kumar	CED	21,910.00	0
187	29.11.14	M/s MGCP Ltd., Meja, Allahabad	Testing of Steel Bar	Dr. Rakesh Kumar	CED	17,978.00	0
188	29.11.14	M/s Unique Rehab Pvt. Ltd., Allahabad	Third party sampling & testing of materials	Prof. R. P. Tiwari	CED	1,23,034.00	0
189	29.11.14	Assistant Divisional Engineer, H.Q.-1, N.C.R. Allahabad	Testing of rectangular hollow pipe	Dr. Abhishek Kumar	AMD	11,236.00	0
190	04.12.14	M/s ACE Pipeline Contracts Pvt. Ltd., Shahdol Phulpur pipeline project, Allahabad	Testing of water sample	Dr. N. R. Rawal	CED	13,484.00	0
191	09.12.14	M/s Devi Maa Shakti Construction & Consultancy Service Pvt. Ltd., Lucknow	Proof Checking of Design	Prof. A.K. Sachan	CED	67,416.00	0
192	16.12.14	M/s AAEE Consultancy Pvt. Ltd., 1/15 Vinamra Khand,Gomti Nagar, Lucknow	Vetting of structural drawing	Dr. Rakesh Kumar	CED	1,68,540.00	0
193	16.12.14	The Project Manager, U.P. Rajkiya Nirman Nigam Ltd., Saifai Unit, Etawah	Inspection and quality check of sports college campus	Dr. Rakesh Kumar	CED	44,944.00	0
194	16.12.14	Office of the Executive Engineer, 6th Construction Division, U.P. Jal Nigam, Allahabad	Testing of PVC Pipe and AC Pipe	Dr. A. R. Paul	AMD	28,202.00	0

195	17.12.14	Mr. Arun Shukla, 209/15 Rasoolabad, Teliyarganj, Allahabad	Feasibility Report of Rapta located in river Mandakini	Prof. R. P. Singh	CED	11,256.00	0
196	20.12.14	M/s Sanskar Constructions, 155 Lehgara Gori, Phaphamau, Alld.	Cube Testing	Dr. Rakesh Kumar	CED	4,494.00	0
197	20.12.14	Secretary, Irrigation division, Lucknow	Mix proportion of cement & sand	Dr. N. R. Rawal	CED	11,236.00	0
198	20.12.14	Executive Engineer, Construction Division No.-1, P.W.D. Allahabad	Compressive strength of curve stone and KC drain stone	Dr. Rakesh Kumar	CED	8,989.00	0
199	20.12.14	M/s Navbharat Trading Co., Myor Road, Allahabad	Mix design of M-25 and M-30 concrete	Dr. Rakesh Kumar	CED	61,798.00	0
200	20.12.14	Project Manager, NCC Limited, Mausam Vihar, Kalindipuram, Alld.	Cube Testing	Dr. Rakesh Kumar	CED	4,494.00	0
201	20.12.14	Project Manager, NCC Limited, Mausam Vihar, Kalindipuram, Alld.	Testing of concrete cube	Dr. Rakesh Kumar	CED	4,494.00	0
202	20.12.14	M/s Prayagraj Power Generation Company Ltd., Lohgara, Bara, Allahabad	Testing of stone	Dr. Rakesh Kumar	CED	11,236.00	0
203	20.12.14	M/s L&T Construction, Chennai	Testing of cement	Dr. Rakesh Kumar	CED	8,989.00	0
204	20.12.14	M/s L&T Construction, Chennai	Testing of bricks	Dr. Rakesh Kumar	CED	8,427.00	0

205	20.12.14	M/s L&T Construction, Chennai	Testing of bricks	Dr. Rakesh Kumar	CED	8,427.00	0
206	20.12.14	M/s J.R.D.S. & Co., Mayapuri Industrial Area, New Delhi	Testing of concrete cube	Dr. Rakesh Kumar	CED	4,494.00	0
207	20.12.14	Project Manager, U.P. Project Corporation Ltd., Shakti Nagar, Bareilly	Third party inspection and quality control	Dr. Rakesh Kumar	CED	2,53,360.00	21,976.00
208	20.12.14	M/s Tata Projects Limited, Chintamani Road, George Town, Allahabad	Testing of coarse aggregate	Dr. Rakesh Kumar	CED	1,97,754.00	0
209	20.12.14	M/s A.A.E.E. Consultancy Pvt. Ltd., Vinarma Khand, Gomti Nagar, Lucknow	Vetting of design & drawing	Dr. Rakesh Kumar	CED	1,68,540.00	0
210	20.12.14	M/s Tata Projects Limited, Chintamani Road, George Town, Allahabad	Testing of fine aggregate	Dr. Rakesh Kumar	CED	80,899.00	0
211	20.12.14	M/s Tata Projects Limited, Chintamani Road, George Town, Allahabad	Testing of cube & cement	Dr. Rakesh Kumar	CED	62,922.00	0
212	20.12.14	M/s Tata Projects Limited, Chintamani Road, George Town, Allahabad	Testing of coarse aggregate - 20 MM	Dr. Rakesh Kumar	CED	29,214.00	0
213	23.12.14	Manager (Civil) RITES LIMITED, Dayanand Marg, Allahabad	Testing of water sample	Dr. N. R. Rawal	CED	13,484.00	0

214	30.12.14	M/s Controdstroy India Pvt. Ltd., New Delhi	Testing of Steel	Dr. Rakesh Kumar	CED	22,472.00	0
215	30.12.14	M/s PNC Infratech Limited, Pratapgarh	Proof Checking of Design of ROB	Prof. P.K. Mehta	CED	5,00,000.00	0
216	31.12.14	The Project Manager, L&T, Allahabad	Testing of Soil	Dr. Kumar Venkatesh	CED	8,989.00	0
217	31.12.14	The Project Manager, L&T, Allahabad	Standard Proctor Test & In-Situ Density Test	Dr. Kumar Venkatesh	CED	88,765.00	16,000.00
218	31.12.14	Secretary, ADA, Allahabad	Mix proportion of cement & sand	Dr. N. R. Rawal	CED	11,236.00	0
219	31.12.14	M/s ACE Pipeline Contracts Pvt. Ltd., Shahdol pipeline project, Allahabad	Testing of water sample	Dr. N. R. Rawal	CED	20,225.00	0
220	14.01.15	M/s Vogue Construction And Consultancy Services Pvt. Ltd., New Delhi	Proof checking of design of ROB	Prof. A.K. Sachan	CED	44,944.00	0
221	14.01.15	M/s Vogue Construction And Consultancy Services Pvt. Ltd., New Delhi	Proof checking of design of RUB	Prof. A.K. Sachan	CED	28,090.00	0
222	14.01.15	M/s Mukesh Gupta, 38/144 Narial Bazar, Kanpur	Design of 300 KL OHT	Prof. A.K. Sachan	CED	13,000.00	0
223	14.01.15	M/s Efficient Hotels India Pvt. Ltd., Railway Station Compound, Allahabad	Testing of water sample	Dr. N. R. Rawal	CED	6,741.00	0

224	14.01.15	M/s Consultancy Pvt. Ltd., 1/15 Vinarma Khand, Gomti Nagar, Lucknow	AAEE	Vetting of structural drawings and calculation	Dr. Rakesh Kumar	CED	1,68,540.00	0
225	14.01.15	M/s Consultancy Pvt. Ltd., 1/15 Vinarma Khand, Gomti Nagar, Lucknow	AAEE	Vetting of structural drawings and calculation	Dr. Rakesh Kumar	CED	1,68,540.00	0
226	19.01.15	M/s Lifeline Hospital & Research Center, Barauni, Bihar		Telemedicine solution for ophthalmology, cardiology & dermatology	Dr. Basant Kumar	ECED	16,854.00	0
227	19.01.15	Executive Engineer, Nirman Khand-3, P.W.D., Allahabad		Mix proportion of cement & sand	Dr. N. R. Rawal	CED	22,472.00	0
228	19.01.15	Asstt. Div. Engineer, H.Q.II, N.C.R., Allahabad		PVC Sheet Test	Dr. S.J. Pawar	AMD	16,854.00	0
229	20.01.15	U.P. Rajkiya Nirman Nigam Ltd., Saifai Unit-1, Saifai - Etawah		Inspection and quality check of building	Dr. Rakesh Kumar	CED	78,652.00	0
230	20.01.15	M/s Tata Project Limited, 47-A C.Y. Chintamani Road, George Town, Allahabad		Compressive strength of concrete cube	Dr. Rakesh Kumar	CED	56,180.00	0
231	20.01.15	M/s L&T Construction, Chennai		Compressive strength of concrete cube	Dr. Rakesh Kumar	CED	24,719.00	0
232	20.01.15	Secretary, Citizen Housing and Developing Co-operative Society Ltd., Allahabad		Chemical composition of concrete and cube test	Dr. Rakesh Kumar	CED	13,483.00	0

233	20.01.15	Executive Engineer, Provincial Division, P.W.D., Gyanpur Bhadohi	Compressive strength of concrete cube	Dr. Rakesh Kumar	CED	2,247.00	0
234	22.01.15	M/s L&T Construction, Chennai	Testing of brick & aggregate	Dr. Rakesh Kumar	CED	39,888.00	0
235	22.01.15	M/s L&T Construction, Chennai	Testing of cement	Dr. Rakesh Kumar	CED	8,989.00	0
236	22.01.15	M/s L&T Construction, Chennai	Testing of non modular bricks	Dr. Rakesh Kumar	CED	8,427.00	0
237	23.01.15	Executive Engineer, Construction Division- III, P.W.D., Allahabad	Testing of brick	Dr. Rakesh Kumar	CED	7,865.00	0
238	23.01.15	M/s Nirvana Consultant & Engineers, Lucknow	Proof checking of design	Prof. A.K. Sachan	CED	15,000.00	0
239	27.01.15	Unit Incharge, U.P.R.N.N. Kausambi Unit, Allahabad	Testing of Aggregate & Cube	Dr. Rakesh Kumar	CED	11,236.00	0
240	27.01.15	Project Manager, Construction & Design Services, Unit-53, U.P. Jal Nigam Kausambi	Testing of cubes, bricks, sand & stone	Dr. Rakesh Kumar	CED	10,674.00	0
241	27.01.15	Project Manager, Construction & Design Services, Unit-53, U.P. Jal Nigam Kausambi	Testing of cubes, bricks, sand & stone	Dr. Rakesh Kumar	CED	10,674.00	0
242	27.01.15	Project Manager, Construction & Design Services, Unit-53, U.P. Jal Nigam Kausambi	Testing of cubes, bricks, sand & stone	Dr. Rakesh Kumar	CED	10,674.00	0
243	28.01.15	M/s Suneel Babu Gupta, Kyotara, Banda	Design of 100 KL CWR cum pump house	Prof. A.K. Sachan	CED	5,000.00	0

244	07.02.15	M/s Nanda & Coy, 27 Shankar Nagar, Nirala Nagar, Lucknow	Mix design of concrete	Dr. Rakesh Kumar	CED	45,000.00	0
245	07.02.15	M/s SMS Infrastructure Limited, 20 IT Park, Parsodi, Nagpur	Soil Testing	Dr. Kumar Venkatesh	CED	20,226.00	0
246	07.02.15	M/s SMS Infrastructure Limited, 20 IT Park, Parsodi, Nagpur	Soil Testing	Dr. Kumar Venkatesh	CED	6,742.00	0
247	08.02.15	M/s Techno Electric & Engineers, Meja TPP, Allahabad	Soil Testing	Dr. Kumar Venkatesh	CED	32,585.00	0
248	08.02.15	M/s NCC Limited, Mausam Vihar Project (ADA), Kalindipuram, Allahabad	Testing of cubes	Dr. Rakesh Kumar	CED	4,494.00	0
249	08.02.15	M/s NCC Limited, Mausam Vihar Project (ADA), Kalindipuram, Allahabad	Testing of cubes	Dr. Rakesh Kumar	CED	6,742.00	0
250	08.02.15	Additional Project Manager, U.P.R.N.N. Ltd., Allahabad Unit, Allahabad	Testing of cubes & concrete mix design	Dr. Rakesh Kumar	CED	35,955.00	0
251	08.02.15	The Executive Engineer, A.D.A., Allahabad	Testing of steel & cubes	Dr. Rakesh Kumar	CED	38,202.00	0
252	08.02.15	The Executive Engineer, A.D.A., Allahabad	Third party inspection of divine apartment	Dr. Rakesh Kumar	CED	5,30,340.00	0
253	08.02.15	The Executive Engineer, CD-2, P.W.D., Mirzapur	Geotechnical Investigation for road work	Prof. R.P. Tiwari	CED	1,60,675.00	0

254	11.02.15	General Manager, Jalkal Vibhag, Nagar Nigam Allahabad	E-governance software development	Prof. Neeraj Tyagi	CSED	1,12,360.00	0
255	13.02.15	M/s AEEE Consultancy Pvt. Ltd., 1/15 Vinarma Khand, Gomti Nagar, Lucknow	Vetting of cross drainage work	Dr. Rakesh Kumar	CED	1,68,540.00	0
256	13.02.15	The Engineering Officer, Allahabad Terminal, IOCL, Allahabad	Compressive strength of cube	Dr. Rakesh Kumar	CED	4,494.00	0
257	13.02.15	M/s L&T Construction, Chennai	Compressive strength of cube	Dr. Rakesh Kumar	CED	4,494.00	0
258	13.02.15	M/s AEEE Consultancy Pvt. Ltd., 1/15 Vinarma Khand, Gomti Nagar, Lucknow	Vetting of cross cum head regulator	Dr. Rakesh Kumar	CED	84,270.00	0
259	13.02.15	M/s Techno Electric & Engineers, Meja TPP, Allahabad	Soil Testing	Dr. Kumar Venkatesh	CED	65,169.00	0
260	13.02.15	The Executive Engineer, Nirman Khand-2, P.W.D., Mirzapur	Soil Testing	Dr. Kumar Venkatesh	CED	16,854.00	0
261	13.02.15	The Executive Engineer, U.P. Jal Nigam, Fatehpur	Site visit charges	Prof. R.C. Vaishya	CED	5,618.00	0
262	13.02.15	The Executive Engineer, Construction Division, U.P. Jal Nigam, Sitapur	Site visit charges	Prof. R.C. Vaishya	CED	5,618.00	0

263	16.02.15	M/s R. B. Singh, Allahabad	Compressive strength of ICBP sample	Dr. Rakesh Kumar	CED	4,494.00	0
264	18.02.15	M/s VIL Limited, B-5/21, Vishal Khand, Gomti Nagar, Lucknow	Mix design of concrete	Dr. Rakesh Kumar	CED	44,944.00	0
265	18.02.15	M/s Tata Projects Limited, 47-A, Chintamani Road, George Towan, Allahabad	Testing of aggregate and cube	Dr. Rakesh Kumar	CED	80,899.00	0
266	18.02.15	M/s VIL Limited, B-5/21, Vishal Khand, Gomti Nagar, Lucknow	Soil Testing	Dr. Kumar Venkatesh	CED	13,484.00	0
267	24.02.15	M/s Rudra Navnirman Pvt. Ltd., Civil Lines, Allahabad	Testing of water sample	Dr. N. R. Rawal	CED	6,742.00	0
268	24.02.15	The Executive Engineer, CD-3, P.W.D., Allahabad	Testing of water sample	Dr. N. R. Rawal	CED	22,472.00	0
269	24.02.15	The Executive Engineer, CD-2, P.W.D., Mirzapur	Geotechnical Investigation for soil sample	Prof. R.P. Tiwari	CED	67,978.00	0
270	24.02.15	The Executive Engineer, PD, U.P.P.W.D., Fatehpur	Geotechnical Investigation for soil sample	Prof. R.P. Tiwari	CED	74,158.00	0
271	27.02.15	The Project Manager, UPPCL, Construction Division-2, Allahabad	Brick and mortar test	Dr. Rakesh Kumar	CED	21,910.00	0
272	27.02.15	A.G.M., NBPPL Site Office, FGUPP, Unchahaar	Testing of cement	Dr. Rakesh Kumar	CED	25,281.00	0

273	27.02.15	Deputy Mandi Allahabad	Director, Parishad, Allahabad	Testing of brick, ration or mortar and concrete	Dr. Rakesh Kumar	CED	26,405.00	0
274	27.02.15	M/s Consultancy Pvt. Ltd., 1/15 Vinarma Khand, Gomti Lucknow	AAEE	Vetting of cross drainage work	Dr. Rakesh Kumar	CED	1,68,540.00	0
275	27.02.15	The Project Manager, L&T, Allahabad	L&T	Soil Testing	Dr. Kumar Venkatesh	CED	1,14,607.00	0
276	27.02.15	M/s Construction, Sarangpur, Allahabad	L&T	Soil Testing	Dr. Kumar Venkatesh	CED	3,371.00	0
277	28.02.15	M/s Techno Electric & Engineers, Meja TPP, Allahabad	Meja TPP, Allahabad	Soil Testing	Dr. Kumar Venkatesh	CED	32,585.00	0
278	28.02.15	M/s Bridge & Roof Co. (India) Ltd., Meja TPP, Allahabad	Meja TPP, MUNPL, Allahabad	Testing of water sample	Dr. N. R. Rawal	CED	6,741.00	0
279	28.02.15	The Engineering Officer, Terminal, Allahabad	Allahabad IOCL, Allahabad	Testing of brick	Dr. Rakesh Kumar	CED	6,180.00	0
280	28.02.15	The Project Manager, UPPCL, Construction Division-2, Allahabad	Allahabad	Compressive strength of RCC slab	Dr. Rakesh Kumar	CED	28,090.00	0
281	28.02.15	The Project Manager, HNB Engineers Pvt. Ltd., Allahabad	Allahabad	Testing of concrete and building materials	Dr. Rakesh Kumar	CED	34,270.00	0
282	28.02.15	The Project Manager, Unit-38, Construction and design services, U.P. Jal Nigam, Sonebhadra	Sonebhadra	Design and drawing of weir on river Thema at Dudhi block in Sonebhadra	Dr. Priyaranjan Pal	CED	1,23,596.00	0

283	03.03.15	M/s Construction, Chennai	L&T	Testing of coarse aggregate	Dr. Rakesh Kumar	CED	40,450.00	0
284	10.03.15	M/s Sunil Kumar Gaur, Kanpur	Kumar	Design of OHT	Prof. A.K. Sachan	CED	10,000.00	0
285	10.03.15	M/s Construction, Lalitpur	Sadan	Design of CWR	Prof. A.K. Sachan	CED	10,000.00	0
286	10.03.15	M/s Viddut Jain, Lucknow	Kumar	Design of OHT	Prof. A.K. Sachan	CED	30,000.00	0
287	14.03.15	The Assistant Manager (Civil), RITES Limited, Allahabad	Manager	Testing of Track Ballast	Dr. Rakesh Kumar	CED	7,865.00	0
288	14.03.15	The Assistant Manager (Civil), RITES Limited, Allahabad	Manager	Testing of Track Ballast	Dr. Rakesh Kumar	CED	26,966.00	0
289	14.03.15	M/s HK Infraventures Pvt. Ltd., 17 Industrial Colony, Naini, Allahabad	Industrial	Testing of concrete cube	Dr. Rakesh Kumar	CED	2,247.00	0
290	14.03.15	M/s MGCPL Meja, Allahabad	Ltd.,	Testing of steel	Dr. Rakesh Kumar	CED	71,910.00	0
291	14.03.15	M/s Techno Electric Ltd., MUNPL, Allahabad	Electric	Testing of water sample	Dr. N. R. Rawal	CED	6,741.00	0
292	16.03.15	Executive Engineer, P.W.D. Kaushambi	Engineer,	Testing of cement mortar	Dr. N. R. Rawal	CED	11,236.00	0
293	18.03.15	Project Manager, NCC Limited, Mausam Vihar, Kalindipuram, Allahabad	Manager, NCC	Testing of concrete cube and steel	Dr. Rakesh Kumar	CED	26,966.00	0
294	18.03.15	M/s Construction, Lehra Phaphamau, Allahabad	Sanskar 155	Testing of concrete cube	Dr. Rakesh Kumar	CED	2,247.00	0

295	18.03.15	The Project Manager, UPPCL, Allahabad	Testing of brick	Dr. Rakesh Kumar	CED	3,933.00	0
296	18.03.15	M/s Tata Projects Limited, 47-A Chintamani George Town, Allahabad	Testing of coarse & fine aggregate and cement	Dr. Rakesh Kumar	CED	1,55,619.00	0
297	18.03.15	Executive Engineer, U.P. Samaj Kalyan Nirman Nigam Ltd., Bareilly	Third party inspection & quality control	Dr. Rakesh Kumar	CED	2,94,158.00	20,519.00
298	21.03.15	Project Manager, UPPCL, 54 Nagar Shakti Colony, Bareilly	Third party inspection & quality control	Dr. Rakesh Kumar	CED	87,360.00	0
299	21.03.15	The Engineering Officer, Terminal, Allahabad	Compressive strength of concrete cube	Dr. Rakesh Kumar	CED	17,978.00	0
300	21.03.15	M/s Citizen Housing & Developing Operative Society Ltd., Civil Lines, Allahabad	Compressive strength of concrete cube	Dr. Rakesh Kumar	CED	2,247.00	0
301	21.03.15	North Central Railway, Allahabad	Testing of Ballast	Dr. Varun Singh	CED	7,865.00	0
302	21.03.15	M/s MGCPL Ltd., Meja, Allahabad	Testing of water sample	Dr. N. R. Rawal	CED	6,741.00	0
303	25.03.15	Deputy Director (Construction), State Agriculture Production Mandi Parishad, Allahabad	Testing of brick and cement-sand ratio of mortar	Dr. Rakesh Kumar	CED	23,596.00	0

304	25.03.15	M/s Narayan Infraheight Pvt. Ltd., 794/A/1, Sohbatiyabagh, Allahabad	Mix design and testing of concrete	Dr. Rakesh Kumar	CED	38,202.00	0
305	25.03.15	M/s D.D. Ahuja and Bros., 161/9 Kashiraj Nagar, Allahabad	Mix design	Dr. Rakesh Kumar	CED	61,798.00	0
306	25.03.15	The Chief Manager, P.G.C.I.L., Allahabad	Testing of cement and cube	Dr. Rakesh Kumar	CED	1,16,855.00	0
307	25.03.15	M/s Ace Pipeline Contracts Pvt. Ltd., Shahdol Phulpur Pipeline Project, Allahabad	Tensile, bend and re-bend test	Dr. Anindya Bhar	AMD	53,933.00	0
308	25.03.15	M/s Electro Machines, 8C, Shivram Das Gulati Allahabad	Tensile testing of 1.5 Sq MM	Prof. Anuj Jain	AMD	11,236.00	0
309	25.03.15	M/s China Petroleum Pipeline Bureau India Private Limited, Shahdol Phulpur Gas Pipeline Project	Calibration of 25 MPA Pressure Meter	Dr. A. R. Paul	AMD	55,056.00	0
310	28.03.15	M/s Power Grid Corporation of Indian Limited, Sarangapur, Rewa Road, Allahabad Project Manager, NCC	Tensile Test and mass of zn coating	Dr. Abhishek Kumar	AMD	24,719.00	1,993.00
311	28.03.15	Limited, Mausam Vihar, Kalindipuram, Allahabad	Testing of cube	Dr. Rakesh Kumar	CED	2,247.00	0

312	28.03.15	Senior Engineer, Station, Allahabad	Section (Work)	Testing of cube	Dr. Rakesh Kumar	CED	2,247.00	0
313	28.03.15	Senior Engineer, Station, Allahabad	Section (Work) N.C.R.	Testing of C.I. Pipe	Dr. A. R. Paul	AMD	13,146.00	0
314	28.03.15	M/s GDCL, Allahabad	Meja,	Testing of Brick	Dr. Rakesh Kumar	CED	4,494.00	0
315	28.03.15	M/s Alstom India Limited, Grid Corporation Ltd., Sarangapur Allahabad	T&D	Mix design and testing of materials	Dr. Rakesh Kumar	CED	62,360.00	0
316	30.03.15	M/s Construction, Chennai	L&T	Testing of cement & aggregate	Dr. Rakesh Kumar	CED	91,012.00	0
317	31.03.15	The Executive Engineer, Division, Nigam, Sultanpur	Additional U.P. Jal AEEE	Geotechnical Investigation at Sultanpur	Prof. R. P. Tiwari	CED	2,69,664.00	70,000.00
318	31.03.15	Consultancy Pvt. Ltd., 1/15 Vinarma Gomti Nagar, Lucknow	Khand, Nagar,	Vetting of cross drainage work	Dr. Rakesh Kumar	CED	5,33,710.00	0
TOTAL						1,67,41,357.00	8,98,856.00	

ANNEXURE-8**Innovative Research Project sanctioned through office of the Dean (R&C) during the period 2014-2015 and financially supported by TEQIP-II funds**

SI No	Name of the PI	Name of Project	Sanction Amount in ₹	Expenditure Amount in ₹	Balance
1	Dr. Sushil Kumar	Extraction of metals ions from aqueous solutions using ionic liquids (Green Solvents)	370000.00	311122.00	58878.00
2	Dr. Anjana Pandey	Isolation and characterization of H2 producing microbes & optimization of pretreatment procedures for solubilisation of biological/lignocellulosic wastes	500000.00	499540.00	460.00
3	Dr. Ashutosh Mani	Comparative study on microarray based expression profiling of transcriptome for revealing the mechanism of heavy metal toxicity tolerance in plants	500000.00	214361.00	285639.00
4	Dr. Radha Rani	Rhizoremediation of heavy metal contaminated soil	500000.00	498857.00	1143.00
5	Dr. Ambak Kumar Rai	Study to investigate the function of CD6 on acute T cell lymphoblastic leukemia	500000.00	335784.00	164216.00
6	Dr. Sameer Srivastava	Engineering of heterologous biosynthetic pathway in E coli for over production of lignans	500000.00	496370.00	3630.00
7	Dr. Sanjay Kumar	Bioelectricity generation from waste using microail fuel cells	500000.00	499637.00	363.00
8	Dr. Shweta Tripathi	Fabrication of nanostructured bioelectrode	354200.00	91010.00	263190.00
9	Dr. Yogendra Kumar Prajapati	Design of bio-sensors using metal clad for sensing application	300000.00	194771.00	105229.00
10	Dr. P. Karuppanan	Embedded FPGA controller based active power line conditioners for industrial electronics	533000.00		533000.00
11	Mr. Vishwajeet Pratap Singh	Risk based assessment of contaminated soil and remediation selection protocol	500000.00	267973.00	232027.00
Total			5057200.00	3409425.00	1647775.00

Details TEQIP-II Project (Office order No. 164/R&C/2013-2014 Date 25.09.2013)

Sl. No	Name of the PI	Name of Project	Sanction Amount in ₹	Expenditure Amount in ₹	Balance
1	Dr. A.R.Paul, AMD	Ph.D. Thesis on Wall Shear Strees Investigation in Air-intakes	200000.00	0.00	200000.00
2	Prof. K.M.Gupta, AMD	M.Tech. Thesis on Fabrication & Characterization of Bio-composites using the Fibre-Grewia Optiva	18850.00	12097.00	6753.00
3	Prof. K.M.Gupta, AMD	M.Tech. Thesis on Fabrication & Characterization of Human hair and polypropylene composites	15950.00	10593.00	5357.00
4	Prof.K.M.Gupta. AMD	M.Tech. Thesis on Fabrication & Characterization of Hybrid composites using Banana fibers and Banana leaf, with Epoxy matrix	17950.00	11868.00	6082.00
5	Dr. S.J.Pawar, AMD	M.Tech. Thesis on Modeling & simulation of acoustic performance of room	77000.00	69280.00	7720.00
6	Dr. S.J.Pawar, AMD	M.Tech. Thesis on Fabrication & Characterization on Banana fiber reinforced composite	96000.00	64378.00	31622.00
7	Dr. S.J.Pawar, AMD	Ph.D. Thesis on Fabrication , testing and simulation of Glass-Polymer film laminated hybrid composite	118000.00	39221.00	78779.00
8	Prof. Anuj Jain AMD	M.Tech. Thesis on Synthesis & Characterization of ferrite	48000.00	38049.00	9951.00
9	Prof. Anuj Jain AMD	Ph.D Thesis on Studies on ferrite based circulators	146500.00	127693.00	18807.00
10	Dr. V.Murari, AMD	M.Tech. Thesis on Characterization of fracture toughness of sandwich	110500.00	0.00	110500.00
11	Dr.V.Murari, AMD	M.Tech. Thesis on Miniaturization of test specimen of composites	100000.00	0.00	100000.00
12	Dr. R.P.Tewari, AMD	M.Tech. Thesis on Bio-Materials, Design & Development of low cost Lumber Spine Implant	191550.00	18097.00	173453.00
13	Dr. R.P.Tewari, AMD	M.Tech. Thesis on Design of low cost Force Plate for Gait Studies	73600.00	12546.00	61054.00
14	Dr. Shivesh Sharma, BTD	B.Tech. project on To increase efficacy of wastewater treatment process using algae	37000.00	0.00	37000.00
15	Dr. Shivesh Sharma, BTD	M.Tech. Thesis on Study of rhizospheric interaction for sustainable agriculture	112000.00	88529.00	23471.00
16	Dr. Anjana Pandey, BTD	B.Tech. project on Amplification of fdhF/hyd-A gene and over expression in suitable microbial strain for increased hydrogen production	40000.00	39828.00	172.00

17	Dr. Anjana Pandey, BTD	M.Tech. Thesis on Study of biochemical and molecular marker under biotic and abiotic	40000.00	39970.00	30.00
18	Dr. N.K.Singh BTD	B.Tech project on Genetic transformation and mutation in plant for industrial application	50000.00	49990.00	10.00
19	Dr. N.K.Singh BTD	M. Tech Thesis on study to degree and direction of mutation frequency for genetic variability and quality improvement Basmati Rice	75000.00	74329.00	671.00
20	Dr. A. K. Rai, BTD	B. Tech project on assessment of parasitocidal activity of Agave sisilana (Ramban) on L. donovani	37000.00	34778.00	2222.00
21	Dr. A. K. Rai, BTD	M. Tech Thesis on Study to determine pathway (S) involved in suppression of cytokine signaling among microphages infected with L. Donovani	37000.00	34061.00	2939.00
22	Dr. Vishnu Agarwal, BTD	B. Tech project on prevention of microbible biofilms using nanoparticle mediated drug delivery	52387.00	52155.00	232.00
23	Dr. Vishnu Agarwal, BTD	M. Tech Thesis on inhibition of bacterial quorum sensing using herbal oils and efficacy of cinnamon against bacterial quorum sensing biofilm formation	58400.00	58099.00	301.00
24	Dr. Seema Nara, BTD	B. Tech project on validation of immunochromatographic strip test for bacterial detection in water samples	38700.00	38437.00	263.00
25	Dr. Seema Nara, BTD	M. Tech. Thesis on δ Toxicity assessment of gold nanotubes synthesized using chemical method	74000.00	73579.00	421.00
26	Dr. Sameer Srivastava, BTD	B. Tech project on Expression analysis of abiotic stress induced genes from low phytic acid producing rice M3 lines	35500.00	34343.00	1157.00
27	Dr. Sameer Srivastava, BTD	M. Tech Thesis on Heterologous Expression of phenylpropanoid biosynthetic pathway genes in E.coli	38500.00	37232.00	1268.00
28	Dr. Manisha Sachan, BTD	B. Tech project on Expression analysis of denovo and maintenance methylases genes during mammalian development	82000.00	80741.00	1259.00
29	Dr. Manisha Sachan, BTD	M. Tech Thesis on genetic and epigenetic studies of surviving genes in ovarian cancer in Indian Population	78000.00	76407.00	1593.00
30	Dr. Sanjay Kumar, BTD	M.Tech. Thesis on Influence of electrode materials on bio electricity generations from microbial fuels cells	75000.00	74162.00	838.00
31	Dr. Radha Rani, BTD	B.Tech. project on Isolation and Characterization of pesticide	50000.00	26012.00	23988.00

		degrading microorganisms from soil			
32	Dr. Radha Rani, BTD	M.Tech. Thesis on Isolation and Characterization of macro-organisms from mining areas for their potential application in eco-restoration of mine dumps	50000.00	37358.00	12642.00
33	Dr. Ashotosh Mani, BTD	B.Tech. project on Isolation, cloning and sequencing of cold shock protein from chickpea	37500.00	37078.00	422.00
34	Dr. Ashotosh Mani, BTD	M.Tech. Thesis on Characterization cold shock protein in chickpea by nucleic acid binding studies	37500.00	37472.00	28.00
35	Dr. Sangeeta Negi, BTD	M.Tech. Thesis on process Development for the Biosurfactant production from locally isolated microbes	74989.00	0.00	74989.00
36	Dr. Arvind Kumar ECED	B.Tech. project on Prototype model design for anti-collision transport system	122900.00	57164.00	65736.00
37	Prof. Ravindra K. Singh, EED	M.Tech. Thesis on design of switched reluctance Motor	126000.00	0.00	126000.00
38	Prof R. K. Triphati, EED	Ph.D. Thesis on switched reluctance Motor Drive for Electric Vehicle Application	150000.00	75259.00	74741.00
39	Prof R. K. Triphati, EED	Ph.D. Thesis on Modeling and Controller design for CSC based STATCOM	100000.00	99766.00	234.00
40	Prof R. K. Triphati, EED	Ph.D. Thesis on Stand-alone DFIG based wind energy conversion system	100000.00	67233.00	32767.00
41	Dr. Rajesh. Gupta, EED	Ph.D. Thesis on Sliding mode control of switching power converters	200000.00	138960.00	61040.00
42	Dr. Paulson Samuel, EED	Ph.D. Thesis on Implementation of embedded controller for multilevel inverter	205000.00	121799.00	83201.00
43	Dr. S. R. Mohanty, EED	Ph.D. Thesis on Harmonic and inter Harmonic estimation and mitigation in wind power plants	203196.00	89398.00	113798.00
44	Dr. M. Siraj Alam, CHED	B.Tech.project on Analysis of convective heat transfer rate with nanofluids on modified surface	120000.00	110506.00	9494.00
45	Dr. M. Siraj Alam, CHED	Ph.D. Thesis on Treatment of heavy metals from waste water using nanofibres	130000.00	22671.00	107329.00
46	Dr. Sadhana Sachan, CHED	B.Tech.project on Removal of hazardous contaminants from industrial waste water through coagulants and electro coagulation	110000.00	53207.00	56793.00
47	Dr. Sadhana Sachan, CHED	Ph.D. Thesis on Synthesis and Characterization of polymer clay composite membranes	140000.00	83667.00	56333.00

48	Dr. Ankur Gaur, CHED	Ph.D. Thesis on Role of Ionic liquids in Co2 capture from flue gas	200000.00	188840.00	11160.00
49	Dr. Sushil Kumar, CHED	B.Tech. project on recovery of Iso-nicotinic Acid from Aqueous solution	110000.00	91014.00	18986.00
50	Dr. Sushil Kumar, CHED	Ph.D. Thesis on Biochemical Engg. Aspects in biopolymeric Nanoparticles for Targeted Drug Delivery	190000.00	41787.00	148213.00
51	Prof R.K. Srivastava, CED	Ph.D. Thesis on Land contamination : Risk Assessment & Remediation	250000.00	123359.00	126641.00
52	Prof R.P Singh, CED	Ph.D. Thesis on Land on Dynamics of pesticides Transport & its Toxicity in potato plant	250000.00	12546.00	237454.00
53	Prof R.P Tiwari, CED	Ph.D. Thesis on Electrokinetic Remediation of cadmium contaminated soil	100000.00	0.00	100000.00
54	Dr Varun Singh, CED	B.Tech. project on shortest path analysis of the transport network using swarm optimization	280000.00	0.00	280000.00
55	Prof P.K. Dutta, Chemistry	Ph.D. Thesis on Chitosan coated quantum dots for biomedical applications: synthesis, characterization and evaluation	175000.00	125041.00	49959.00
56	Prof N.D. Pandey Chemistry	Ph.D. Thesis on synthesis and characterization of modified metal alkoxides based on Ti, Sn, Nb, and Ta for corresponding metal oxides nanomaterials	165000.00	164936.00	64.00
57	Prof S.S Narvi, Chemistry	Ph.D. Thesis on synthesis and characterization on organic ó inorganic hybrid materials based on metal complexes and polyoxometalates	160000.00	0.00	160000.00
58	Dr G.K Mehrotra, Chemistry	Ph.D. Thesis on synthesis of MOF derived nanoporous carbon materials	160000.00	99669.00	60331.00
59	Dr Ashutosh Pandey, Chemistry	Ph.D. Thesis on microwave assisted synthesis of nano materials	165000.00	149706.00	15294.00
60	Dr Tamal Ghosh, Chemistry	Ph.D. Thesis on synthesis and recognition properties of sensors for charged analytes	160000.00	160000.00	0.00
Total			6496472.00	3504910.00	2991562.00

Details TEQIP-II Project (Office order No. 184/R&C/2013-2014 Date 14.10.2013)

Sl No	Name of the PI	Name of Project	Sanction Amount in ₹	Expenditure Amount in ₹	Balance
1	Prof K N Pandey, MED	Ph.D. Thesis on Behaviour of Dissimilar Material Welded by friction stir welding under cycle loading	30000.00	0.00	30000.00
2	Prof. R K Srivastava, MED	B. Tech. Project on to Design and install a micro wind Turbine	21500.00	0.00	21500.00
3	Prof K N Pandey, Med	Ph.D. Thesis on Corrosion Fatigue of Buried High Pressure Transportation pipelines under high and low pH condition	74000.00	0.00	74000.00
4	Dr. Jagdish Chandra Mohanta, MED	B. Tech. Project on Design and Development of Flying Robots for Real-Time Experiments	82000.00	54360.00	27640.00
5	Dr. Rajeev Srivastava, MED	B. Tech. Project on Design & Development of Mechatronic controlled aircraft Prototype	100410.00	43725.00	56685.00
6	Dr. Rahul Dev, MED	M. Tech. Thesis on Design Fabrication & Performance of Modified basin type multi-wick solar desalination systems	92380.00	0.00	92380.00
7	Prof. Vinod Yadava, MED	B.Tech Project on Development and Experimental Study of Electrical Discharge Surface Grinding	49900.00	49864.00	36.00
8	Prof. Vinod Yadava, MED	Ph.D. Thesis on Development and Experimental Study of Sinking Electro-Chemical Spark Machining for Advanced Engineering Materials TEQIP	133000.00	133000.00	0.00
9	Dr. Audhesh Narayan, MED	Ph.D. Thesis on Development Modeling and Optimization of Micro EDM Drilling Process	97500.00	97363.00	137.00
10	Dr. Rajeev Srivastava, MED	M. Tech. Thesis on Development and Studies of Centrifugal Casting Setup	56000.00	0.00	56000.00
11	Prof. Vinod Yadava, MED	M. Tech. Thesis on Experimental Study of Travelling Wire-Electro Chemical Spark Machining (TW-ECSM) of Composite Material	16700.00	16700.00	0.00
12	Dr. Rajeev Srivastava, MED	Ph.D. Thesis on Material Modeling and Fabrication of Smart structures with piezoelectric patches	72000.00	0.00	72000.00
13	Prof K N Pandey, MED	Ph.D. Thesis on Modeling and Optimization of Process parameters for thermal barrier coating with top coat by sol-gel technique	76080.00	14867.00	61213.00
14	Dr. Audhesh Narayan, MED	M. Tech. Thesis on Modeling and Optimization of Surface Grinding Process	44500.00	0.00	44500.00
15	Prof. R K Srivastava, MED	M.Tech. Thesis on Power Harvesting From Vibrational Energyusing Piezoelectric material	10000.00	0.00	10000.00

16 Mr. Binayaka Nahak, M. Tech Thesis on Product Characterization & Simulation of Alloy (Ti) using sheet hydro forming setup

65000.00 64814.00 186.00

Total 1020970.00 474693.00 546277.00

S.J. No.	Name of the PI	Name of Project	Sanction Amount in ₹	Expenditure Amount in ₹	Balance in ₹
1	Mr. Ramji Dwivedi	M. Tceh Thesis on "A Study on Monitoring of Vertical Motion Using GPS"	80000.00	35950.00	44050.00
2	Dr. Varun Singh	Ph.D. Thesis on Fomalization Modelling and geo-simulation of emergency response of fire department of allahabad city"	260000.00		260000.00
3	Dr. A K. Singh	Ph.D. Thesis on Geospatial System for Inegrated watershed management and sustainable development of vindhyanchal region	290000.00	25204.00	264796.00
4	Mr. Ramji Dwivedi	M. Tceh Thesis on Study of Recurring Mass Movemets Using StaMPSTechnique"	70000.00	20900.00	49100.00
5	Dr. A K. Singh	Ph.D. Thesis on Vehical Routing and Scheduling in Solid waste collection systems using GIS Technology	300000.00	18434.00	281566.00
Total			1000000.00	100488.00	899512.00

Details TEQIP-II Project (Office order No. 214/R&C/2013-2014 Date 02.12.2013)

Sl. No.	Name of the PI	Name of Project	Sanction Amount in ₹	Expenditure Amount in ₹	Balance in ₹
1	Dr. Ashish N. Sawarkar	B. Tech of " Feasibility of Ionic Ionic Liquids as Potential Lubricant Additives	105000.00	0.00	105000.00
2	Dr. Naresh Mumdar Physic Dept	Ph.D. Thesis on "Synthesis and study of laser ablated/magnetic/metallic/semiconducting nanostructure"	440000.00	168017.00	271983.00
3	Dr. Animesh Kumar Ojha Physic Dept	Ph.D. Thesis on "Study on Synthesis, optical and magnetic properties of multi-layer graphene and its transition metals doped nano composites"	200000.00	198344.00	1656.00
4	Dr. Arvind Agarwal Physic Dept	Ph.D. Thesis on "Estimation of size of nanoparticles by various techniques a comparative study"	350000.00	115218.00	234782.00
Total			1095000.00	481579.00	613421.00

Details of TEQIP Balance				
Sl. No	Sanction Order No.	Sanction Amount in ₹	Expenditure Amount in ₹	Balance in ₹
1	146/R&C/13-14 Dt. 02.09.2013	5057200.00	3409425.00	1647775.00
2	164/R&C/13-14 Dt. 25.09.2013	6496472.00	3504910.00	2991562.00
3	184/R&C/13-14 Dt. 14.10.2013	1020970.00	474693.00	546277.00
4	203/R&C/13-14 Dt. 25.11.2013	1000000.00	100488.00	899512.00
5	214/R&C/13-14 Dt. 02.12.2013	1095000.00	481579.00	613421.00
Total		14669642.00	7971095.00	6698547.00

ANNEXURE-09

A. Publications in International Journal

- [1] P.Chakrabarti and A. Srivastava, "An organic Schottky diode (OSD) based on silicon/polycarbazole contact," *Synthetic Metals*, vol. 207, pp 96-101, 2015.
- [2] S. Chakrabarty, A. Mondal, P. Chakrabarti, S. K. Singh, A.K. Saha, and P.Singh, "Synthesis of biocompatible TiO₂ nanodots: Glancing angle Deposition technique," *J. Nanosci. Nanotechnol.*, 2015, (in press)
- [3] S. K. Singh, P. Hazra, S. Tripathi, P. Chakrabarti "Fabrication and Experimental Characterization of A Sol-gel Derived Nanostructured n-ZnO/p-Si Heterojunction Diode," *International Journal of Materials Science: Materials in Electronics*, 2014 (in press).
- [4] S. Vyas, S. Kumar, R. Tiwari and P. Chakrabarti, "Study the Target effect on the Structural, Surface and Optical properties of TiO₂ Thin Film Fabricated by RF Sputtering Method," *Superlattices and Microstructures*, 2014 (in Press).
- [5] S. Sharma, S. Vyas, C. Periasamy and P. Chakrabarti, "Structural and optical characterization of ZnO thin films for optoelectronic device applications by RF sputtering technique," *Superlattices and Microstructures*, vol. 75, pp. 3786389, 2014.
- [6] S. Singh, N. Kumar, A. Jha, M. Sahni, Kil-dong Sung, J. H. Jung, and S. Chaubey, "Study of magnetic, dielectric and magnetodielectric properties of BaTiO₃/Fe₃O₄ core/shell nanocomposite," *Journal of Materials Science: Materials in Electronics*, vol. 10, no. 01, 2015.
- [7] M. Sahni, N. Kumar, S. Singh, A.Jha, S. Chaubey, M. Kumar, and M. K. Sharma, "Influence of Mn doping on structural, electrical and magnetic properties of (0.90) BiFeO₃(0.10) BaTiO₃ composite," *Journal of Materials Science: Materials in Electronics*, vol. 25, no. 5, pp. 2199-2209, 2014.
- [8] S. Singh, N. Kumar, R. Bhargava, M. Sahni, Kil-dong Sung, and J. H. Jung, "Magnetodielectric effect in BaTiO₃/ZnFe₂O₄ core/shell nanoparticles," *Journal of Alloys and Compounds* vol. 587, pp. 4376441, 2014.
- [9] J. Kailashiya, N. Singh, S. K. Singh, V. Agrawal, and D. Dash "Graphene oxide-based biosensor for detection of platelet-derived microparticles: A potential tool for thrombus risk identification," *Biosensors and Bioelectronics*, vol. 65, pp. 2746280, 2015.

B. Publications in International / National Conference

- [1] M. Sahni, N. Kumar, M. Kumar, S. Singh, A. Jha and S. Chaubey, "Effect of Sr substitution on structural, dielectric, magnetic and magnetoelectric properties of rapid liquid sintered BiFe_{0.8}Ti_{0.2}O₃ ceramics," International Conference on Multifunctional Materials, Structures & Applications (ICMMSA'2014), MNNIT Allahabad, India in collaboration with the University of Missouri (MU), Columbia, USA, Dec 22-24, 2014.
- [2] S. Singh, N. Kumar, M. Sahni, A. Jha, A. Srivastava, S. Chaubey, "Influence of substrate temperature and oxygen pressure on the structural, morphological and magnetic properties of PLD grown ZnFe₂O₄ thin films," International Conference on Multifunctional Materials, Structures & Applications (ICMMSA'2014), MNNIT Allahabad, India in collaboration with the University of Missouri (MU), Columbia, USA, Dec 22-24, 2014.
- [3] A. Srivastava, A. Jha, S. Singh and N. Kumar, "Catalyst free growth of ZnO nanorods using pulsed laser deposition" International Conference on Multifunctional Materials, Structures & Applications (ICMMSA'2014) is being organised at MNNIT Allahabad, India in collaboration with the University of Missouri (MU), Columbia, USA, Dec 22-24, 2014.
- [4] P. G. Chhaya, S. Vyas and P. Chakrabarti, "Comparative studies on the Characteristics of ZnO thin films deposited by single-step and two step method using RF-sputtering," International Conference on Devices, Circuits and Communications, September 12-13, 2014.
- [5] S. Vyas, R. Tiwary, S. Kumar and P. Chakrabarti, "Characterization of TiO₂ thin films by RF-sputtering method," International Conference on Devices, Circuits and Communications, BIT Mesra, September 12-13, 2014.

- [6] S. Vyas, S. Singh and P. Chakrabarti, "Deposition and Characterization of as-deposited ZnO Thin Films by Thermal Evaporation Method," 3rd Global Conference on Materials Science and Engineering (CMSE), Shanghai, Oct 20-23, 2014.
- [7] P. Giri, C. Narayan, S. Vyas, and P. Chakrabarti, "Fabrication and Characterization of ZnO Nanorods/Pd-Au Contacts," 3rd Global Conference on Materials Science and Engineering (CMSE), Shanghai, Oct 20-23, 2014.
- [8] S. K. Singh, P. Hazra, S. Tripathi, and P. Chakrabarti, "Performance analysis of RF Sputtered ZnO/Si Heterojunction UV Photodiode," International Conference, current developments in atomic, molecular optical and nano physics with applications, 2015.
- [9] P. Singh, S. Srivastava, and S. K. Singh, "Cationic surfactant mediated synthesis of MCM-41 type mesoporous silicon oxide nano particles," International conference on Multifunctional Materials, Structures and Applications, CIR MNNIT, Allahabad & University of Missouri (MU), Columbia, vol.13, pp. 978-93-392-2019-8, 2014.

Following experimental facilities have been created in CIR



Experimental facilities functioning in CIR

High Resolution X-ray diffractometer (XRD)

Make: RIGAKU,

Model: Smart lab 3KW

Applications: RIGAKU Smartlab X-ray diffractometer is the most novel diffractometer available in CIR.

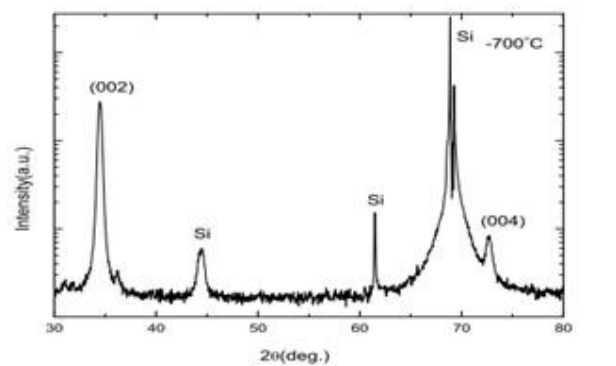
Its most novel feature is the SmartLab Guidance software, which provides the user with an intelligent interface that guides you through the intricacies of each experiment.

Features

Full automated alignment under computer control. Optional in-plane diffraction arm for in-plane measurements without reconfiguration. Focusing and parallel beam geometries without reconfiguration.

Measurable Properties

1. Crystal lattice parameters
2. Crystal orientation
3. Particle /por-size analysis
4. Nano Structural Analysis
5. Residual Stress determination
6. Thin Film analysis including:
7. Thin film thickness, density, roughness
8. Reflectivity Thickness and Roughness measurements
9. Rocking Curve and Reciprocal Space Mapping



XRD data of (002) Oriented ZnO nanorods

Scanning Probe Microscopy (SPM) OR Atomic force microscopy (AFM)

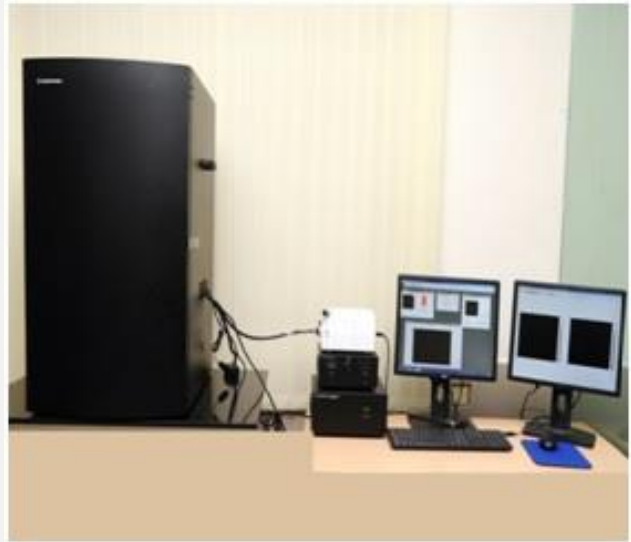
Make: Agilent

Model: Agilent 5500

Applications: AFM is an imaging technique used to determine topography and other properties of surfaces. It can resolve features as small as an atomic lattice, for either conductive or non-conductive samples. The potential of AFM extends to applications in life science, materials science, electrochemistry, polymer science, biophysics, nanotechnology, and biotechnology.

Features with Agilent 5500 AFM System

- Scanning Tunneling Microscopy (STM)
- Force Modulation Microscopy (FMM)
- Lateral Force Microscopy (LFM)
- Dynamic Lateral Force Microscopy (DLFM)
- Magnetic Force Microscopy (MFM)
- Electrostatic Force Microscopy (EFM)
- Kelvin Force Microscopy (KFM)

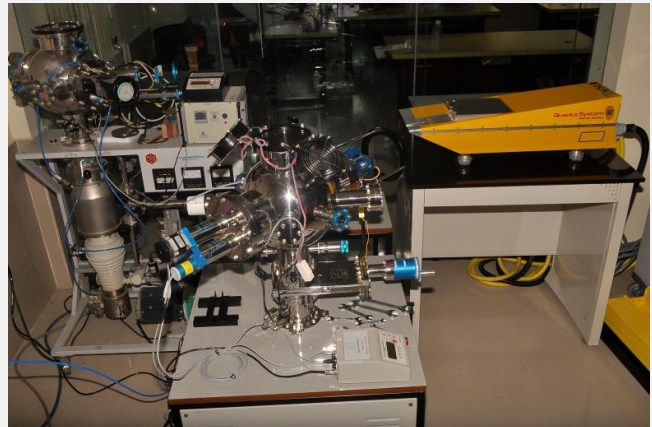


Pulsed Laser Deposition

Make: Nd:YAG Laser-Quanta System DNA LaserTechnology, PLD Chambers- Excel Instruments Mumbai

Model: IEC/EN 60825-1:2007

Applications: Thin film deposition and synthesis of nanostructures



RF/ DC Sputtering System

Make: Hind High Vacuum (HHV)
Co (P) Ltd
Model: PS 2000

Applications: The HHV make RF/DC magnetron sputtering unit in CIR provides complete coating solutions for the deposition of both metal and insulator on substrates providing a high level of control and uniformity.

RF/DC magnetron sputtering unit

consist of turbo pumped vacuum coater with following **major components:**

Vacuum system and chamber, Turbo molecular pump with controller, Water cooled stainless steel chamber and door, Edwards rotary pump, 2 angstrom science flex head magnetrons, 2 in 1 out RF/DC source selector switch, 3 inch work holder with substrate heater, Temperature controller, Triple mass flow controller for Ar, N₂, O₂ with isolation valves and filters, 2 kW DC power supply, 600W RF power supply



Vacuum Coating Unit

Make: Hind High Vacuum (HHV) Co (P) Ltd
Model:12A4-D and AUTO 306

Application: Versatile coating system, used to deposit thin, homogenous, uniform, pure film coatings of various metals to achieve controlled effects in applications like optics, electronics, materials, thin film coating etc.



Spectroscopic Ellipsometer VASE

Make:J.A. Wollam Co. Inc.

Model:V-VASE

Application: Used for the measuring various parameters of thin films namely Optical constants, film thickness (single or multiple layers), Doping concentration, Surface and interfacial roughness etc.



Fluorescence Spectrometer

Make: Perkin Elmer,

Model: LS-45

Applications: Used in various application like fluorescence, phosphorescence, chemi - or bioluminescence.

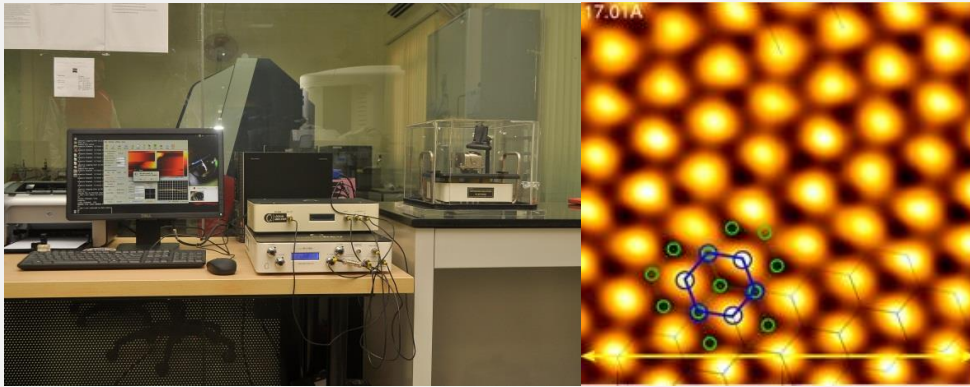


Scanning Tunnelling Microscope(STM)

Make:Quazar Technologies

Model:nanoREV

Applications: Used for imaging surfaces at the atomic level



Highly Oriented Pyrolytic Graphite Image

Semiconductor Device Analyser with Manual Probe Station

Make:Agilent Technologies

Model:B1500A

Application:Mainly for device Characterizations



Measurement capabilities

- Current-voltage (IV) measurement capabilities of spot, sweep, sampling and pulse measurement in the range of 0.1 fA - 1 A / 0.5 μ V - 200 V
- AC capacitance measurement in multi frequency from 1 kHz to 5 MHz and Quasi-Static Capacitance-Voltage (QS-CV) measurement capabilities
- Advanced pulsed IV and ultra-fast IV measurement capability from minimum 5 ns sampling interval (200 MSa/s)
- Up to 40 V high voltage pulse forcing for non-volatile memory evaluation

Programmable Spin Coater

Make:APEX Instruments

Model:Spin NXG-P2

Application:

Spin coating is used for many applications where relatively flat substrates or objects are coated with thin layers of material.



Scanning Electron Microscopy (SEM) with Micro universal testing machine (Micro UTM)

Make: ZEISS (SEM), GATAN (UTM)

Model: EVO MA 5

Micro Test 5000W Tensile Stage Module: 5000 N load cell

Applications: To conduct Tensile and compression tests of Nanocomposites, composites, metals, polymers, etc. at room temperature.



Ultra Pure Water Purification System (Milli-Q)

Make: MILLIPORE

Model: Integral 3

Application:

- Pure and ultrapure water is available directly from tap water (no need to have a DI source in the lab) from 60 L/day up to 350 L/day (depending on model)
 - Consistent production of superior quality pure water (better than twice the quality of distilled water) without the need to regenerate a DI tank, thanks to patented Elix technology
 - Easy pure or ultrapure water delivery in different lab locations thanks to the PODs
 - Easy and intuitive operation
 - Application-specific water qualities through customized final polishers
 - Built-in resistivity and TOC monitors designed to comply with the most demanding norms, including USP requirements



Electrochemical Analyzer

Make:AUTOLAB

Model:AUT40869

Applications: Used for most of the standard electrochemical applications. In combination with the powerful NOVA software Autolab PGSTAT can be used for most of the standard electrochemical techniques.

Key features:

Electrode connections:2, 3 and 4

Potential range: +/- 10 V

Compliance voltage:+/- 10 V

Maximum current:+/- 100 mA

Current ranges:10 mA to 10 nA

Potential accuracy:+/- 0.2 %

Potential resolution:3 μ V

Current accuracy:+/- 0.2 %

Current resolution:0.0003 % (of current range)

Input impedance:> 100 GOhm

Potentiostat bandwidth:1 MHz.



UV-Vis NIR spectrometer

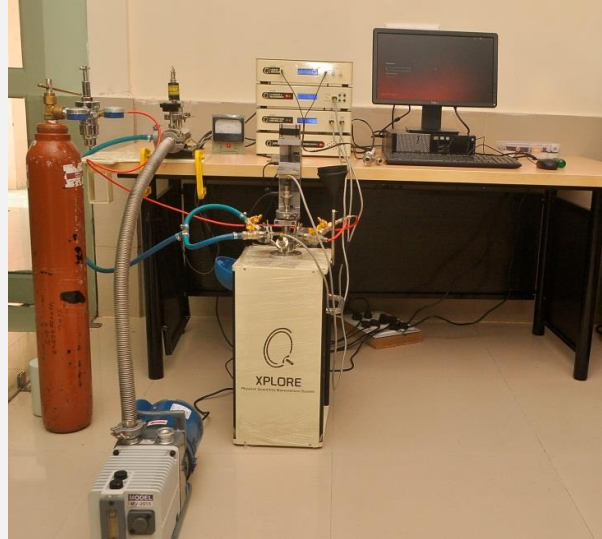
Make: SHIMADZU
Model: UV-3600 Plus



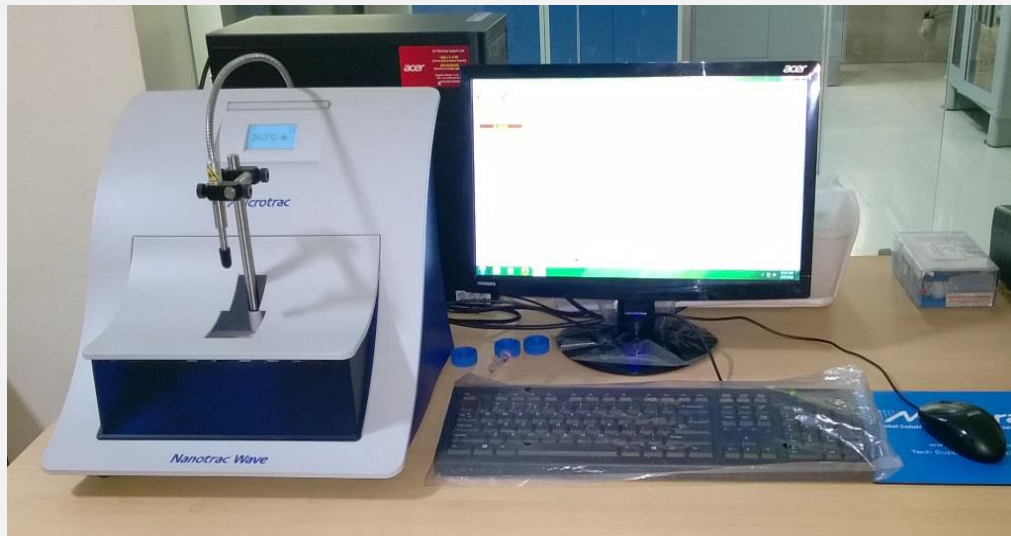
Vibrating Sample Magnetometer
Model: Versalab
Make: Quantum Design



Physical Quantity Measurement System
(PQMS)
Mode: Explore



Particle size Analyser
Make: Microtrac
Model: NANOTRAC WAVE



ANNEXURE-10

Other Responsibilities of Center for Medical Diagnostic and Research

The center aims to encourage interdisciplinary research by facilitating the various departmental research activities. By enabling the various research activities, the center also aims to offer affordable facility to researchers of in and around the institute. The core and technical committee look after the functioning of the centre and assist in arranging possible funding from different sources.

Thrust areas

- i. Molecular biology and Genetic analysis
- ii. Microbiological examination
- iii. Immunodiagnostic services
- iv. Animal Tissue Culture
- v. DNA Sequencing
- vi. Clinical and pathological diagnostic as part of Institute Health Centre
- vii. Any other relevant area

The centre was formally inaugurated on January 26, 2015.

Ongoing Research Projects at CMDR, MNNIT

1. DST Young Scientist Project No. SB/YS/LS-44/2014, entitled: *Delineating the role of nano-herbal composites in ergosterol biosynthesis inhibition in dermatophytes.*

Principal Investigator: Dr. Rohit Kumar Mishra

Project Mentor: Dr. Shivesh Sharma, Associate Professor, Biotechnology

Total Budget: Rs. 40 Lakhs, **Funding Agency:** Science and Engineering Research Board, Dept. of Science and Technology (DST), New Delhi.

2. Research proposal entitled, "Design and Innovation Centre: Spoke Partner" Sanctioned by Ministry of Human Resource Development (MHRD), India

Project Co-ordinator: Dr. Shivesh Sharma, Associate Professor, Biotechnology

Project Mentor: Prof. P. Chakrabarti, Director, MNNIT Allahabad

Total Budget: Rs. 1 Crore

Other Activities at the Centre

Short term Course Organized

1. A five day short term course on Biotechnology, Health and Diagnostics was organized during January 14-18, 2015.
2. A seven day short term course on Flow Cytometry: Application in Research, Diagnostics and Health Care Innovation was organized during December 15-21, 2015.
3. A seven day short term course on DNA Sequencing : Applications in Diagnostics and Health Care Innovation" was organized during December 8-14, 2015.

MOU Developed: 02

1. Department of Transplant Immunology and Immunogenetics, AIIMS New Delhi
2. Lab Banaras

Under Process

Molecular Biology Unit, IMS, Banaras Hindu University Varanasi

Lectures Organized



1. **Dr. Anuradha Godavarty**, Associate Professor, Department of Biomedical Engineering, Florida International University, Miami, USA, delivered a lecture on "**Near Infrared optical imaging technology for breast cancer, diabetes and brain applications**" on July 30, 2015.
2. **Prof. Amit Kumar Dinda**, In-charge, Renal Pathology Lab, All India Institute of Medical Institute, New Delhi delivered a lecture on "**Nanomedicine in Health and Diseases**" on September 12, 2015.

Research and other Services

The facility is being used by various M. Tech and PhD students for their research work. In addition, the centre is also receiving samples from external institutions/laboratories for analysis.

In addition, various school children visited the centre and were trained about various instruments, their usage and applications. Moreover, the centre also assisted institute's health center to establish pathology facility to be run under the supervision of a trained pathologist.

List of the Equipments

S No.	Name & Use	Images
1	<p>Electrophoresis unit with power pack (vertical and horizontal)</p> <p>Make: GE</p> <p>Uses:</p> <ol style="list-style-type: none">i. Gel electrophoresis is used to provide genetic information in a wide range of data fields.ii. Estimation of the size of DNA molecules following restriction enzyme digestion, e.g. in restriction mapping of cloned DNA.iii. Analysis of PCR products, e.g. in molecular genetic diagnosis or genetic fingerprintingiv. Separation of restricted genomic DNA prior to Southern transfer, or of RNA prior to Northern transfer.	
2	<p>Electroblotter</p> <p>Make: GE</p> <p>Uses</p> <ol style="list-style-type: none">i. Southern, northern transfer; Gene probe assays.ii. Western transfer/Protein Sequencing/Amino acid Analysis.iii. Enzyme immobilization.iv. Solid phase immobilization.v. Dry chemistry test strips.	

UV-VIS Spectrophotometer

Make: BioSpectrometer Basic

Uses

- 3
- i. UV/Vis spectroscopy is routinely used in analytical chemistry for the quantitative determination of different analytes, such as biological macromolecules (DNA, RNA, Proteins etc.).
 - ii. It is also useful for the Detection of Impurities

Deep Freezer (-20)

Make : Haier

Uses

- 4
- It has been designed to maintain constant temperature at set temperature. Laboratory freezers provide indispensable storage space for everything from bulk reagents to delicate tissue samples. It is typically equipped with adjustable shelves designed to accommodate multiple types of sample containers. Programmable thermostats and temperature monitor systems, as well as alarms that sound in cases of power failure are common features. Standard freezers maintain a temperature just below freezing.



Gel Documentation System

Make: Applied Biosystems

Uses

- 5
- i. Widely used in molecular biology laboratories for the imaging and documentation of nucleic acid and protein gels.
 - ii. Gels are typically stained with ethidium bromide or other fluorophores such as SYBR Green.
 - iii. Generally, a gel doc includes an ultraviolet (UV) light trans-illuminator, a hood or a darkroom to shield external light sources and protects the user from UV exposure, and a CCD camera for image capturing.



Karyotyping Workstation

Make : Olympus Corporation, Tokyo Japan

Uses

Karyotyping is useful for the detection of chromosomal aberrations such as duplications, deletions and translocations. They are useful for the following applications:

6

- i. Extra chromosomes or less chromosomes in a particular cell.
- ii. Extensions or deletions at the chromosomal level in a cell.
- iii. To study the cellular functions of chromosomes.
- iv. To study taxonomic relationships.
- v. To gather information about past evolutionary events.



Inverted microscope with camera (cell culture grade)

Make : Dewinter

Uses

7

- i. Inverted microscopes are used in micromanipulation applications where space above the specimen is required for manipulator mechanisms and the micro tools they hold, and in metallurgical applications where polished samples can be placed on top of the stage and viewed from underneath using reflecting objectives.
- ii. Inverted microscopes are useful for observing living cells or organisms at the bottom of a large container (e.g., a tissue culture flask) under more natural conditions than on a glass slide, as is the case with a conventional microscope.
- iii. An inverted microscope gives you greater freedom than an upright one. It provides a better clue about the diversity of life and its interaction on a microscopic level.
- iv. Inverted microscopes enable you to look at more samples in a shorter period of time.
- v. With an inverted microscope, you cannot crash an objective into the sample.
- vi. Inverted microscopes save you time and money in sample preparation.



Enzyme linked immunoabsorbent Assay (ELISA)

Make: Thermo Scientific

Uses

- 8
- i. Enzyme linked immunoabsorbent Assay (ELISA) is biochemical assay technique used mainly in immunology. The main applications are
 - ii. Serum antibody concentrations
 - iii. Serum antibody
 - iv. Detecting potential food allergens for Food diagnostics (milk, pea nuts, eggs etc)
 - v. Disease out-breaks tracking the spread of disease (e.g. HIV, bird-flu, colds, cholera etc)
 - vi. Detecting the antigens, Growth curve and hormone assays eg. Pregnancy hormones, drug allergens etc.
 - vii. Detecting the antibodies in blood sample for past exposure to disease eg Lymph disease, HIV, etc
 - viii. Detecting the Protein assays and Antioxidants



Real Time- PCR

Make : Thermo Scientific

Uses

- 9
- PCR has been applied to a large number of medical procedures:
- i. Rapid detection of nucleic acids for diagnosis of diseases like infectious diseases, cancer and genetic abnormalities.
 - ii. Development of improved assays for the clinical microbiology laboratory.
 - iii. For quantitative measurements of gene transcription.
 - iv. Gene expression
 - v. Analysis of cellular immune response in peripheral blood.
 - vi. Vtral load (HIV, HCV, HBV,), Bacterial load (Salmonella, Mycobacterium, Fungal load (Candida, Cryptococcus, Aspergillums)

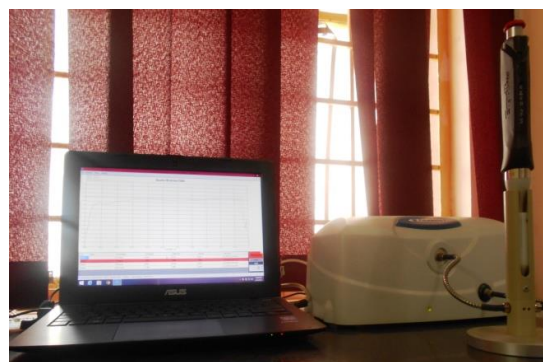


Micro Volume Spectrophotometer

Make : Genetix Biotech Asia Pvt. Ltd

Uses

- 10
- i. Ideal for DNA, RNA and Protein measurements
 - ii. Only 0.5µl sample volume required
 - iii. Purity scan over entire wavelength range, 198 to 1000nm
 - iv. Detects DNA concentrations as low as 2ng/µl



-40⁰C deep freezer

Make : Haier Bio Medicals

Uses

For the storage of chemicals, kits and other essential items.

11



-80⁰C deep freezer

Make : Haier Bio Medicals

Uses

For the storage of chemicals, kits and other essential items.

12



Automated DNA Sequencer

Make : Applied Biosystems

Uses

- 13
- i. De novo sequencing of genomes
 - ii. Detection of variants (SNPs) and mutations
 - iii. Biological identification
 - iv. Confirmation of clone constructs
 - v. Detection of methylation events
 - vi. Gene expression studies
 - vii. Detection of copy number variation



Flow Cytometer

Make : BD Accuri

Uses

- 14
- The flow cytometry used for the analysis of DNA or RNA content, and for a number of functional studies on cells.
- i. Multicolour analysis
 - ii. Cell cycle analysis



- iii. Fluorescent proteins
- iv. Apoptosis
- v. Oncosis
- vi. Necrosis
- vii. Functional analysis
- viii. Calcium flux
- ix. Cell proliferation

Semi Automated Microbial Identification System
Make : Biolog

Uses

- 15
- i. Biolog's powerful carbon source utilization technology accurately identifies environmental and pathogenic microorganisms by producing a characteristic pattern or metabolic fingerprint from discrete test reactions performed within a 96 well microplate.
 - ii. Culture suspensions are tested with a panel of pre-selected assays, then incubated, read and compared to extensive databases of environmental organisms, human pathogens, veterinary pathogens and plant pathogens.
 - iii. The scope of the 96 assay reactions, coupled with sophisticated interpretation software, delivers a high level of accuracy.



Biosafety Laminar Flow work station with virus burn unit

Make: Esco Micro Pvt. Ltd.

Uses

- 16
- i. Biological Safety Cabinets are safety equipments to be used for handling Hazardous Pathogens.
 - ii. These cabinets, apart from creating a Clean & Sterile environment, protect the product/sample from the Lab personnel and the Atmosphere.
 - iii. The vertical downward airflow protects the product, the inflow along the front edge protects the user and the HEPA filtered exhaust air protects the atmosphere.



CO₂ incubator with cylinder

Make : Esco Micro Pvt. Ltd.

Uses

Cell Culture CO₂ incubators are widely used in scientific research to grow and maintain cell cultures.

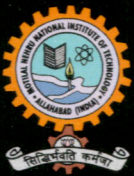
17 Typical fields of application include

- i. tissue engineering,
- ii. in vitro fertilization,
- iii. neuroscience,
- iv. cancer research,
- v. stem cell research,
- vi. Regenerative medicine and other mammalian cell research.





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