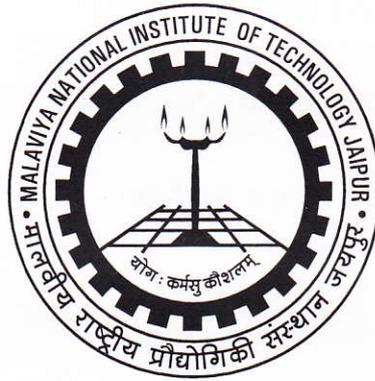


# Annual Report

2010-11



**MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY**  
**JAIPUR - 302017**

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# ANNUAL REPORT 2010-11

## REVIEW

The Malaviya Regional Engineering College, Jaipur was one of the seventeen Regional Engineering Colleges of India. It was established in the year 1963 as a joint enterprise of the Government of India and the State Government of Rajasthan. On 26<sup>th</sup> June 2002 the college was granted the status of Deemed University and renamed as Malaviya National Institute of Technology Jaipur by Government of India. The institute is autonomous in character and is managed by a Board of Governors. Now the Institute is governed by Act of Parliament since 15<sup>th</sup> August 2007.

### ACADEMIC PROGRAMMES

#### (a) Undergraduate Programmes (Bachelor of Technology)

Courses of study are offered in the following disciplines leading to the Bachelors degree.

Academic Programmes leading to B. Tech./B. Architecture Degree

S.No.	Discipline/Duration	No. of Seats
1.	Architecture (5 years)	62
2.	Civil Engg. (4 years)	92
3.	Chemical Engg. (4 years)	92
4.	Computer Engg. (4 years)	93
5.	Electrical Engg. (4 years)	93
6.	Electronics & Communication Engg. (4 years)	93
7.	Information Technology (4 years)	92
8.	Mechanical Engg. (4 years)	93
9.	Metallurgical Engg. (4 years)	92
	<b>TOTAL</b>	<b>802</b>

## (b) Postgraduate Programmes (Master of Technology)

Academic Programmes leading to M. Tech./M.B.A./M.Sc. Degree as noted below

S. No.	Title of Course	Department Offering the Programmes
1.	M. Tech. in Water Resource Engineering	Civil Engg.
2.	M. Tech. in Environmental Engineering	Civil Engg.
3.	M. Tech. in Power Systems	Electrical Engg.
4.	M. Tech. in Metallurgical & Materials Engg.	Metallurgical & Materials Engg.
5.	M. Tech. in Electronics and Comm. Engineering	Electronics & Comm. Engg.
6.	M. Tech. in Transportation Engineering	Civil Engg.
7.	M. Tech. in Manufacturing System Engg.	Mechanical Engg.
8.	M. Tech. in Structural Engineering	Structural Engg.
9.	M. Tech. in Chemical Engineering	Chemical Engg.
10.	M. Tech. in Energy Engineering	Mechanical Engg.
11.	M. Tech. in VLSI Design	Electronics & Comm. Engg.
12.	M. Tech. in Computer Engineering	Computer Engg.
13.	M. Tech. in Disaster Assessment and Mitigation	Civil Engg.
14.	M. Planning in Urban Planning	Architecture
15.	M. Sc. in Physics	Physics Dept.
16.	M. Sc. in Chemistry	Chemistry Dept.
17.	M. Sc. in Mathematics	Mathematics Dept.
18.	Master of Business Administration (MBA)	Management Studies Dept.
19.	Technology Management	Management Studies Dept.

## ADMISSION PROCEDURE

### (a) Undergraduate Programmes

The admissions are made through the merit rank of AIEEE conducted by the Central Counselling Board i.e. CBSE on behalf of the Ministry of Human Resource Development, Govt. of India, New Delhi. The minimum academic qualification for admission through AIEEE is a pass in the final examination of 10+2 (Class XII) or its equivalent.

### (b) Postgraduate Programmes

#### (i) For full time students

The candidates are admitted to Full Time courses on the basis of GATE Score only.

#### (ii) For part time students

The candidates are admitted on the basis of their performance in the qualifying examination as well as the interview. Due weightage is given to the length of service experience and the achievements during service.

The seats meant for sponsored candidates are filled on the basis of sponsorship certificate issued by the respective sponsoring agencies. If these seats are not filled up by such candidates then all the seats are left vacant.

Facility for research work leading to the Doctorate degree is also available in the various departments of this Institute. The details of courses offered and admission statistics are given in chapter 4.1 to 4.5

## **BOARD OF GOVERNORS**

The Institute is managed by Board of Governors which consists of

- (i) Chairman (appointed by MHRD, Govt. of India).
- (ii) One nominee of the State Government
- (iii) One nominee of the MHRD
- (iv) Director of Indian Institute of Technology in the Region or his nominee
- (v) A nominee of the AICTE
- (vi) Two industrialists/Technologists (non-official representatives) of the region to be nominated by the Central Government
- (vii) A nominee of the UGC
- (viii) Two representatives of the faculty of the Institute to be nominated by the Chairman
- (ix) Head of another Technical Institution in the region or an eminent technologist nominated by the Central Government
- (x) An Alumnus of the Institute from amongst alumni in Education / Industry to be nominated by the Board of Governors
- (xi) Director of the Institute as Ex-officio member secretary

Present composition of Board of Governors is given in Annexure 11.1

## **FINANCE COMMITTEE**

The committee is constituted by the Board of Governors. The composition is given in Annexure 11.2

## **BUILDING AND WORKS COMMITTEE**

The committee is constituted by the Board of Governors. The composition is given in Annexure 11.2

## **SENATE**

Present composition is given in Annexure 11.2

## **STAFF**

The details of teaching, administrative and other staff are given in chapter 3.1 and 3.2.

## **ACADEMIC DEPARTMENTS**

The detailed information about the academic activities of the departments of the Institute including participation of faculty members in Seminars, Symposia, Workshops and summer/winter schools and organization of various academic activities by the faculty members are provided in chapter 11.6. Sponsored research projects / consultancy worth more than Rs. 3.66 crores are currently under progress at the institute. The consultancy revenue generation has also increased in the Institute. The Institute is a part of Technical Education Quality Improvement Programme (TEQIP), Phase II. The details regarding research projects and consultancy projects are provided in chapter 11.3. The research output in the form of publications is journals/conference proceedings/books is given in chapter 11.9. A large number of M.Tech. and Ph.D. students are carrying out research for their dissertation/thesis work. The details of each candidate along with his area of research are given in chapter 11.7.

## **EXAMINATION AND EVALUATION**

### **Credits System**

The student is evaluated for his/her performance in a course through tutorials, practicals, homework assignments, term papers, file work, seminars, quizzes, mid term examinations and the end term examinations, as applicable according to the guide lines formulated by the UG Board for this purpose. The answer books of mid term as well as end term examinations are shown to the students and discrepancies rectified by the examiner and thereafter the result is finalized by the Grade Moderation Committee.

### **Grading System**

The academic performance of a student is graded on a ten-point scale. The letter grades awarded to a student, in all the courses (except audit course) is converted into a semester and cumulative performance index called the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA). The details of the examination results are given in chapter 4.9.

## **SCHOLARSHIPS**

A large number of scholarships are available to the undergraduate, postgraduate and Ph.D. students of the Institute. The details of these scholarships alongwith their funding agencies are given in chapter 4.6 and 11.11.

## **TRAINING AND PLACEMENT**

In the academic session 2010-11, 104 organizations visited the institute for the recruitment of B.Tech. students and total job offers of 659 were offered to 359 out of total 360 eligible candidates. In addition to this 45% of M.Tech./MBA/M.Sc. student were selected. The maximum and average packages offered are 9.88 LPA and 4.44 LPA respectively. The details are given in chapter 11.12

## **LIBRARY**

The Institute library caters to the academic needs of the students, faculty and staff. It has holdings in the form of books, back volumes, BIS standards etc. In addition to these holdings it provides a large number of online journals and other non-print materials like CD-ROMs, video cassettes etc. The details of these are provided in chapter 9.3.

## **HOSTELS**

There are twelve hostels for the students of our Institute. A total of 2194 students are residing in the hostels. Two new hostels one for boys of 1000 capacity and one girls hostel of 600 capacity has been completed this year and students have started residing in them. The details of capacity and management are given in chapter 4.5.

## **GAMES AND SPORTS**

The department has been active in promoting sports activities and inculcating healthy sportsman spirit among the students. Our students have taken part in sports and won several prizes at various tournaments. The details about participation in these activities are given in chapter 2.13 and 4.7.

**Date :**  
**Place : Jaipur**

**(I. K. Bhat)**  
Director

# ANNUAL REPORT 2010-11

## 1 INTRODUCTION

### 1.1 VISION AND MISSION STATEMENT

#### **Vision**

To create a center for imparting technical education of international standards and conducting research at the cutting edge of technology to meet the current and future challenges of technological development.

#### **Mission**

To create technical manpower for meeting the current and future demands of industry. To reorganize education and research in close interaction with industry with emphasis on the development of leadership qualities in the young men and women entering the portals of the Institute with sensitivity to social development and eye for opportunities for growth in the international perspective.

### 1.2 QUALITY POLICY

The MNIT shall strive to impart knowledge in such a manner as to achieve total satisfaction of students, parents, employers, and the society.

#### **Institute Motto**

Excellence can be achieved only through perseverance and hard work.

### 1.3 EDUCATION SYSTEM

The Institute is deemed to be university and awards its own degree. The semester scheme is followed for both undergraduate and postgraduate courses.

The academic performance of a student is graded on a ten-point scale, the letter grades awarded to a student in all the courses (except audit courses) are converted into a semester and cumulative performance index called the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) respectively.

A system of feedback by the students about the instructor and the course is also in practice.

## 1.4 NEW INITIATIVES

The education system has been revamped in line with those practiced in the best Institutes of the world.

For Ph. D. programme, coursework concept has been introduced to ensure better quality of research.

New post graduate courses have been introduced and a large number of electives have been introduced to enable students to have a wider choice of subjects from inter-disciplinary areas. Courses specific to management, communication techniques and computer-aided design and programming have been introduced to keep pace with changing times. Curriculum workshops have been organized by every department for updating UG and PG schemes.

Each department was allowed to use funds as much as they need for the maintenance of laboratories and creation of infrastructure in the department. For smooth functioning, Deans, Heads of the department and Principal Investigators of Research Projects and Consultancy Projects were given financial powers of rs. 15000/-.

## 2.0 AN OVERVIEW

### 2.1 HISTORICAL BACKGROUND

Established in 1963 as a joint venture of the Government of India and the Government of Rajasthan, The Malaviya Regional Engineering College, Jaipur started functioning with 30 students each in Electrical Engg. and Mechanical Engg. The college shifted to the present campus in Jaipur in 1965. Spread over 125 Hectares of lush greenery, the campus of MNIT enthralls and inspires. Indeed, all the states and union territories of the country are represented in the undergraduate intake of the Institute (50% from Rajasthan & the 50% from all other states & union territories of India), thus making it a perfect example of the celebrated axiom, 'unity in diversity'.

The great educationist and visionary, Prof. V. G. Grade, as its first Principal, moulded its destiny, with his characteristic élan, into a renowned Institute. The effort to maintain the high standard and committed approach of the College to the cause of technical excellence was recognized by the Ministry for Human Resource Development and University Grants Commission, New Delhi which granted it the status of a National Institute of Technology and Deemed University on June 26, 2002. It is one of the 20 NIT's established in different states of the country. Through an Act of Parliament, it has been granted the status of a Centre of Excellence since 15th August 2007. Governed by the NIT Council, the Institute has four statutory bodies, namely, the Board of Governors, the Finance Committee, the Building and Works Committee and the Senate. The Institute is fully funded by MHRD, the Government of India, New Delhi.

The Institute is under the administrative control of a Board of Governors. It is authorized by the parliament to award its own degrees.

There are nine undergraduate and nineteen Postgraduate programmes viz. Architecture, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Electronics & Communication Engineering, Mechanical Engineering, Metallurgical and Materials Engineering, Structural Engineering, Physics, Chemistry, Mathematics and Management departments. M.E. course in Non-ferrous-(Metallurgy) was started from the session 1971-72, M.E. course in Water Resource Engineering (Civil Engg.) was started from the year 1985-86, M.E. course in Power System (Electrical Engg.) was started with effect from the session 1987-88, M.E. in Environmental Engg. in Civil Engg. Dept. was started with effect from the session 1989-90 for sponsored candidates, nominated by the Ministry of Urban Development, Government of India, M.E. course in Electronics and Communication Engineering was started with effect from the session 1992-93. M.E. courses in Transportation Engineering (Civil Engg.), Manufacturing System Engineering (Mechanical Engg.) and Computer Aided Design in Structural Engineering were started from the session 1996-97. The nomenclature of M. Tech. course of Computer Aided Design in Structural Engineering has been changed in to M. Tech. in Structural Engineering from the session 2006-2007. Three new M. Tech. courses i.e. VLSI Design in Electronics & Communication Engineering Department, Energy Engineering in Mechanical Engineering Department and Chemical Engineering in Chemical Engineering Department were also started from the session 2006-2007. Three M. Sc. courses i.e. Physics, Chemistry and Mathematics in the respective Departments were also started in 2006-07. A postgraduate course in Master of Management Studies which was started by CMSIC from the session 1996-97 has now been discontinued due to administrative reasons. A new MBA course has been

started from the session 2006-2007. M.Tech. in Computer Engineering and M. Planning in Urban Planning have started from the session 2008-09.

The bedrock of any academic institution is the quality of its faculty and in this arena, MNIT is at the forefront. Our 151-odd full-time experienced faculty has a passion for teaching and an avowed commitment to R&D. The global perspective of the faculty makes the Institute a premier institute of learning in India. Majority of the faculty holds doctoral degrees. Quality teaching is what we aim at so as to stimulate intellectual curiosity, creativity and innovativeness. The Institute is actively engaged in research, consultancy and developmental activities and collaborates with leading industrial houses and IT companies under various projects

The institute is a part of the World Bank supported Technical Education Quality Improvement Programme (TEQIP) phase II implemented by the National Project Implementation Unit (NPIU). The performance of institute in phase I of the project has been creditable.

The Institute has residential facilities for boys as well as girls in its campus. The hostel facility to the maximum extent of accommodation available is also provided to the students of the Institute.

## **2.2 LOCATION**

The Institute is based in Jaipur which is a lively and vibrant city. Situated in Northern India at a distance of around 260 km south of Delhi, Jaipur would have been a part of the Thar Desert, but for the Aravalli Hills that provide it with much needed security from one side. Jaipur offers a multitude of interesting places and attractions. Such as lush parks and places for recreation. There are several magnificent palaces and forts such as the City Place, Amber and Nahargarh. It is a city of fun, food and festivals. Vibrant colours, lively folk music and dance performances mark the celebrations of every religious occasion and every change of season. It is, indeed, the 'Pink City', a heady mix of tradition & modernity, vibrant with recreational, social as well as educational experiences for the students. It has all the facilities and entertainment a student needs; excellent shops, restaurants, clubs, sports facilities and a thriving cultural scene.

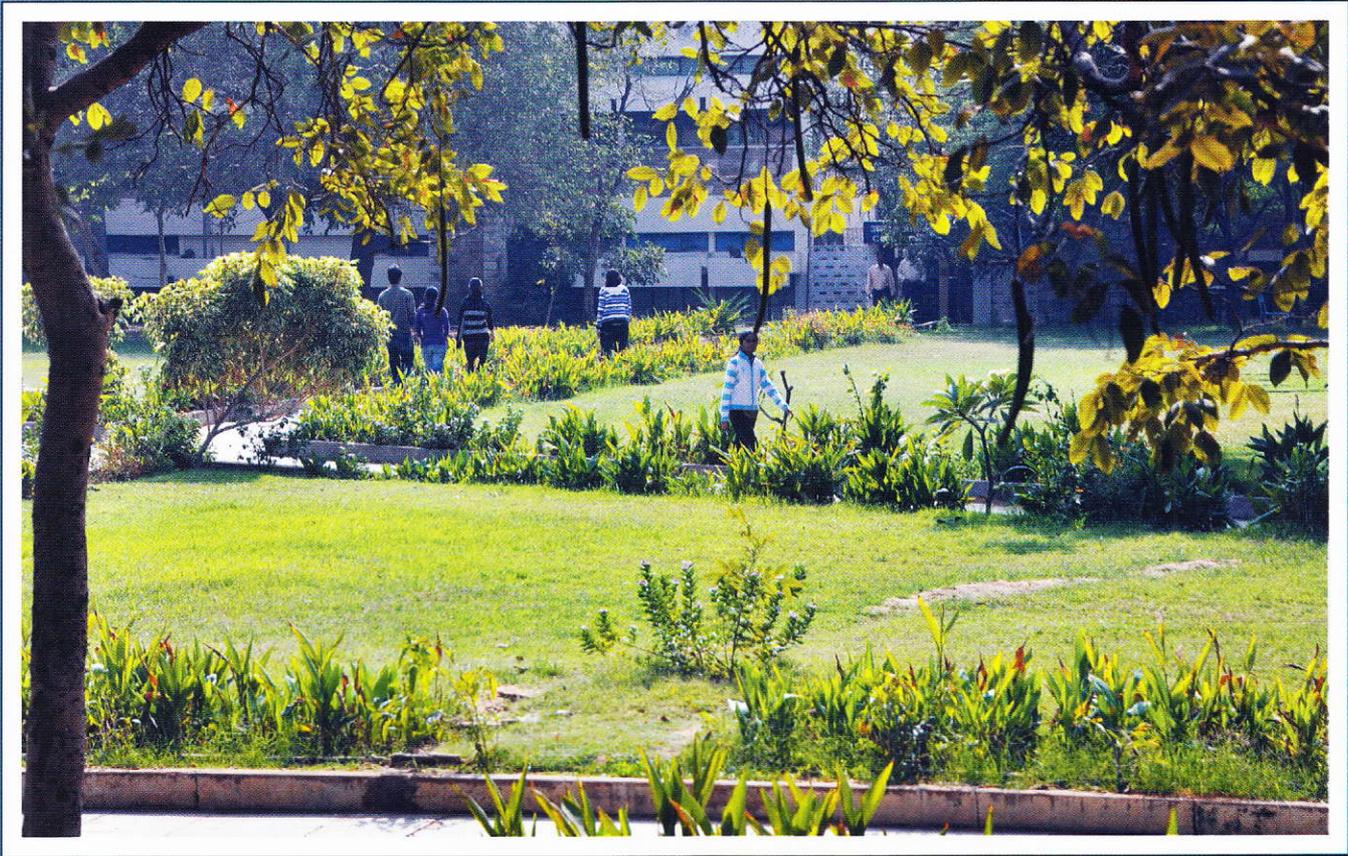
The Institute is located in Malaviya Nagar on Jawahar Lal Nehru Marg. The main Railway Station and Bus Stand are approximately 10 km from the Institute whereas the Airport is about 5 km away located at Sanganer. Frequent city transport and private transport services are available for the Institute from every point of the city.

## **2.3 CAMPUS**

The Campus of the institute is spread over an area of 125 hectares. It presents a spectacle of harmony in modern architecture, natural beauty and picturesque surrounding. The campus area has been organized into three functional sectors:

1. Hostels for Students
2. Instructional Buildings
3. Residential Sector for the Staff

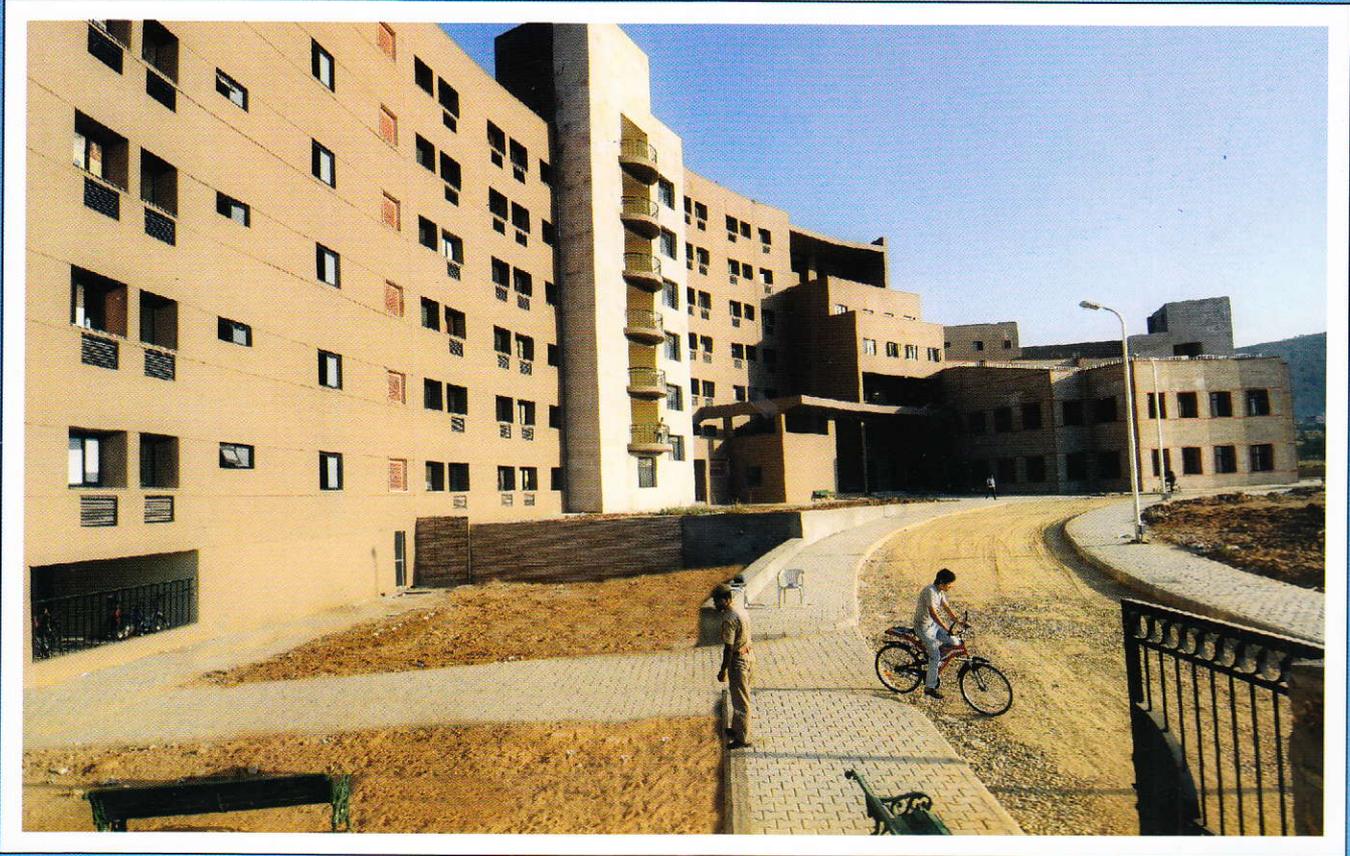
The instructional buildings have been so located that these are fairly near to both the hostels and the staff quarters and are at a walking distance from both. There is a branch of ICICI Bank on the premises and a Post-office in the campus. A full-fledged dispensary is supervised by a team of Medical Officers and two Compounders. The Institute has also been extending facility of a Part-time Homeopathic doctor and Ayurvedic doctor in the campus. Adequately equipped Canteen buildings, one near the instructional zone and another near the hostels provide facilities to the students and the staff during and beyond the working hours of the Institute.



**Campus View**



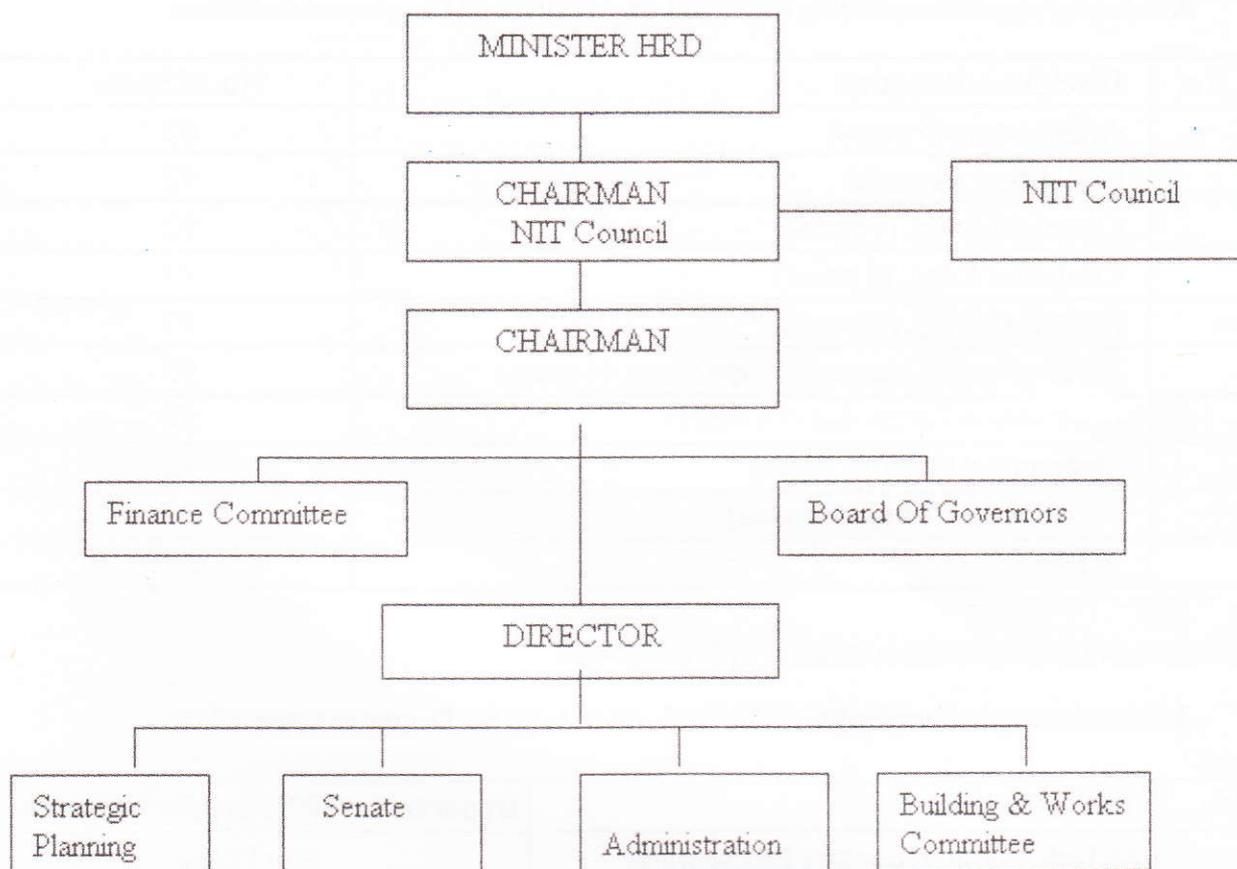
**Library**



**New Hostels**



## Administrative Hierarchy of MNIT, Jaipur



### 2.4 ADMINISTRATION

The Institute, being an autonomous Institution, is administered by Board of Governors, which consists of (i) Chairman (appointed by MHRD, Govt. of India) (ii) one nominee of the State Government (iii) one nominee of MHRD, (iv) Director of the Indian Institute of Technology in the region or his nominee, (v) a nominee of the All India Council for Technical Education, (vi) & (vii) two Industrialist/Technologists (non-official representatives) of the region to be nominated by the Central Government (viii) a nominee of University Grants Commission (ix) & (x) two representatives of the faculty of the College to be nominated by the Chairman and (xi) Head of another technical institution in the region or an eminent technologist nominated by the Central Government (xii) An alumnus of the Institute from among the alumni in education/industry to be nominated by Board of Governors (xiii) Director of the Institute as Ex-officio Member Secretary.

The students are given opportunity to administer their own affairs affecting the co-curricular residential and recreational activities through various committees, such as Institute Canteen Committee students' Aid and Welfare committee, Hostels and Mess committee etc.

### 2.5 ACADEMIC PROGRAMMES

At present the Institute offers four-year UG courses leading to the B. Tech. degree and five years of Bachelor of Architecture degree. The PG courses of two years duration provide advance learning of the specialized area and thus prepare a human resource possessing advance knowledge in the field of engineering and technology. The Institute also offers a full-time/part-time advance programme leading to the Ph.D. degree in the areas of Engineering/Technology/Management/Sciences/Humanities & Social Sciences.

**(a) Undergraduate Programmes (Bachelor of Technology)**

Academic Programmes leading to B. Tech./B. Architecture Degree as noted below

S. No.	Discipline/Duration	No. of Seats
1.	Architecture (5 years)	62
2.	Civil Engg. (4 years)	92
3.	Chemical Engg. (4 years)	92
4.	Computer Engg. (4 years)	93
5.	Electrical Engg. (4 years)	93
6.	Electronics & Communication Engg. (4 years)	93
7.	Information Technology (4 years)	92
8.	Mechanical Engg. (4 years)	93
9.	Metallurgical Engg. (4 years)	92
	<b>TOTAL</b>	<b>802</b>

**(b) Postgraduate Programmes (Master of Technology)**

Academic Programmes leading to M. Tech./M.B.A./M.Sc. Degree as noted below

S. No.	Title of Course	Department Offering the Programmes
1.	M. Tech. in Water Resource Engineering	Civil Engg.
2.	M. Tech. in Environmental Engineering	Civil Engg.
3.	M. Tech. in Power Systems	Electrical Engg.
4.	M. Tech. in Metallurgical & Materials Engg.	Metallurgical & Materials Engg.
5.	M. Tech. in Electronics and Comm. Engineering	Electronics & Comm. Engg.
6.	M. Tech. in Transportation Engineering	Civil Engg.
7.	M. Tech. in Manufacturing System Engg.	Mechanical Engg.
8.	M. Tech. in Structural Engineering	Structural Engg.
9.	M. Tech. in Chemical Engineering	Chemical Engg.
10.	M. Tech. in Energy Engineering	Mechanical Engg.
11.	M. Tech. in VLSI Design	Electronics & Comm. Engg.
12.	M. Tech. in Computer Engineering	Computer Engg.
13.	M. Tech. in Disaster Assessment and Mitigation	Civil Engg.
14.	M. Planning in Urban Planning	Architecture
15.	M. Sc. in Physics	Physics Dept.
16.	M. Sc. in Chemistry	Chemistry Dept.
17.	M. Sc. in Mathematics	Mathematics Dept.
18.	Master of Business Administration (MBA)	Management Studies Dept.
19.	Technology Management	Management Studies Dept.

## 2.6 COURSE OFFERED

At present the Institute offers four year undergraduate courses leading to B. Tech. degrees in Chemical, Civil, Computer, Electrical, Electronics and Communication, Information Technology, Mechanical, Metallurgy and a five years Bachelor of Architecture degree. The PG courses of two years duration provide advance learning of the specialized area and thus prepare human resource having advance knowledge in the field of engineering and technology. The Institute also offers a full-time/part-time advanced programme leading to the Ph.D. degree in the areas of Engineering / Technology / Management / Sciences / Humanities & Social Sciences.

## 2.7 ADMISSION PROCEDURE

### (a) Undergraduate Programmes

The admission are made through AIEEE conducted by the Central Counselling Board i.e. CBSE and online counselling conducted by Central Counselling Board on behalf of the Ministry of Human Resource Development, Govt. of India, New Delhi. The minimum academic qualification for admission through AIEEE is a pass in the final examination of 10+2 (Class XII) or its equivalent.

### (b) Postgraduate Programmes

Admissions for M. Tech/M.Sc./MBA are done (i) for full time through score in GATE conducted by IIT and (ii) for sponsored candidates, whether full time or part time, through interview/test/GATE (depending on availability of seats). Admissions to full time and part time Ph.D. programmes are done through interview/tests conducted by individual Department.

## 2.8 STUDENTS INTAKE

### (a) Undergraduate Programmes

The allocation of 802 seats for students from Rajasthan & other than Rajasthan states are as follows

STATE	ARCH	CHEM	CIV	COE	ECE	ELE	IT	MECH	MET	TOTAL
All India	15 OP 1 OPPH 5 SC 2 ST 8 OBC	23 OP 6 SC 1 SCPH 4 ST 12 OBC	23 OP 7 SC 3 ST 1 STPH 12 OBC	23 OP 1 OPPH 7 SC 3 ST 12 OBC 1 OBCPH	23 OP 7 SC 3 ST 12 OBC 1 OBCPH	22 OP 1 OPPH 7 SC 4 ST 13 OBC	22 OP 1 OPPH 7 SC 3 ST 12 OBC 1 OBCPH	22 OP 1 OPPH 6 SC 1 SCPH 4 ST 12 OBC	22 OP 1 OPPH 6 SC 1 SCPH 4 ST 13 OBC	401
RAJASTHAN	15 OP 4 SC 2 ST 1 ST PH 2 OBC	22 OP 1 OPPH 7 SC 3 ST 13 OBC	22 OP 1 OPPH 7 SC 3 ST 12 OBC 1 OBCPH	22 OP 1 OPPH 7 SC 4 ST 12 OBC	23 OP 1 OPPH 7 SC 4 ST 12 OBC	23 OP 6 SC 1 SCPH 3 ST 12 OBC 1 OBCPH	22 OP 1 OPPH 7 SC 4 ST 12 OBC	23 OP 7 SC 3 ST 13 OBC 1 OBCPH	22 OP 1 OPPH 6 SC 1 SCPH 4 ST 12 OBC	401
<b>BRANCHWISE TOTAL</b>	<b>62</b>	<b>92</b>	<b>92</b>	<b>93</b>	<b>93</b>	<b>93</b>	<b>92</b>	<b>93</b>	<b>92</b>	<b>802</b>

### (b) Postgraduate Programmes

The number of seats for each M. Tech. programme

General	SC	ST	OBC	Sponsored	Part Time	Intake
10	3	2	5	5	6	31

The number of seats for each M. Sc. programme

General	SC	ST	OBC	Total
16	05	02	08	31

The number of seats for M.B.A. programme

General	SC	ST	OBC	Total
31	09	05	17	62

## RESERVATION IN B.TECH./M. TECH./M.Sc./MBA PROGRAMMES

- |       |                      |   |
|-------|----------------------|---|
| (i)   | OBC                  | 27% in every course                                     |
| (ii)  | Schedule Castes      | 15% in every course                                     |
| (iii) | Schedule Tribes      | 7.5% in every course                                    |
| (iv)  | Physical Handicapped | 3% in every course over & above the sanctioned strength |

### Duration of M. Tech. Programmes

Normal duration	Maximum duration
Full Time: 4 Semesters	6 Semesters
Part Time: 6 Semesters	10 Semesters

### Duration of M. Sc./MBA Programme

Normal duration	Maximum duration
Full Time: 4 Semesters	6 Semesters

## 2.9 EXAMINATION AND EVALUATION

### Credits System

Education at the Institute is organized around the credit system of study. The prominent features of the credit system is process of continuous evaluation of a student's performance, and a flexibility to allow a student to progress at an optimum pace suited to his/her ability or convenience subject to fulfilling minimum requirement for continuation.

Each course has a certain number of credits, which describe its weightage. A student's performance is measured by the number of credits that he/she has completed satisfactorily. A minimum Grade Point Average is required to be maintained for satisfactory process. Also a minimum number of earned credits should be obtained in order to qualify for the degree.

Every course is co-ordinated by a member of the teaching staff of the department, which offers the course in a given semester. This faculty member is called the Course Co-ordinator. He has full responsibility for conducting the course, co-ordinating the work of the other members of the faculty involved in that course and for holding tests and assignments and awarding grades. For any difficulty a student is expected to approach the Course Co-ordinator for advice and clarification.

## Grading System

The Grades are being awarded as per the Table noted below

**Structure of grading of academic performance**

Academic Performance	Grades	Grade
Outstanding	A+	10
Excellent	A	9
Very Good	B+	8
Good	B	7
Average	C+	6
Below Average	C	5
Marginal	D	4
Poor	E	2
Very poor	F	0
Audit	AU	--
Incomplete	I	--
Withdrawal	W	--
Continued Project	X	--
Non completion of Course Requirement	Z	--

## 2.10 PLACEMENT

The Placement Cell has been active in arranging training and placement for students. This year a total of 104 companies visited the Campus and selected 359 student out of total 360 eligible students. In addition to that 45% of the eligible students of M. Tech. / MMS were also selected. Maximum and Average Packages offered by companies were Rs. 9.88 Lacs P.A. (DE SHAW) & Rs. 4.44 Lacs P.A. respectively.

## 2.11 GAMES AND SPORTS

The department has been very active in promoting sports activities and inculcating healthy sportsman spirit among the students. The students brought laurels by winning several prizes and became overall champion in all INDIA sports tournaments BOSM'10 organized by Birla Institute of Science and Technology, Pilani and in MST'11. MNIT Cricket team (Men) became the Runner's up in the All India Inter NIT Cricket Tournament, (Suratkal, Karnataka). Ms. Sommya Mahalawat (B Arch) was selected as a Captain and Ms. Bhumika Saini (Meta.) as a player for "Rajasthan State Senior Women Football Team - 2011. MNIT Basketball (Men) and Table Tennis (Women) team became Champion in the All India sports meet, (LNMIIT, Jaipur, Rajasthan).

## 2.12 STAFF POSITION

The staff position is as follows

Sanctioned Faculty strength (Including Director)	236
Faculty in Position (Including Director)	151
Administrative Officer & Other Staff in position	9
Technical Officer and other Staff in position	4
Ministerial Staff in position	40
Technical staff in position	47
Other Technical Subordinate & Supporting staff	98
Engaged on contract basis( Assistant engineer, Jr. Engineer)	3
Contractual (Security Guards) + Security supervisor	60+3=63
Engaged on contract basis on consolidated salary	37
Part time on consolidated salary	6

## 2.13 NOTABLE ACHIEVEMENTS

### Students Awards

The students brought laurels by winning several prizes and became overall champion in all INDIA sports tournaments BOSM'10 organized by Birla Institute of Science and Technology, Pilani and in MST'11. MNIT Cricket team (Men) became the Runner's up in the All India Inter NIT Cricket Tournament, (Suratkal, Karnataka). Ms. Sommya Mahalawat (B Arch) was selected as a Captain and Ms. Bhumika Saini (Meta.) as a player for "Rajasthan State Senior Women Football Team - 2011. MNIT Basketball (Men) and Table Tennis (Women) team became Champion in the All India sports meet, (LNMIIT, Jaipur, Rajasthan).

### Placement

This year a total of 104 companies visited the Campus and 359 out of 360 eligible students were placed in jobs. The details are given in the chapter 4.10.

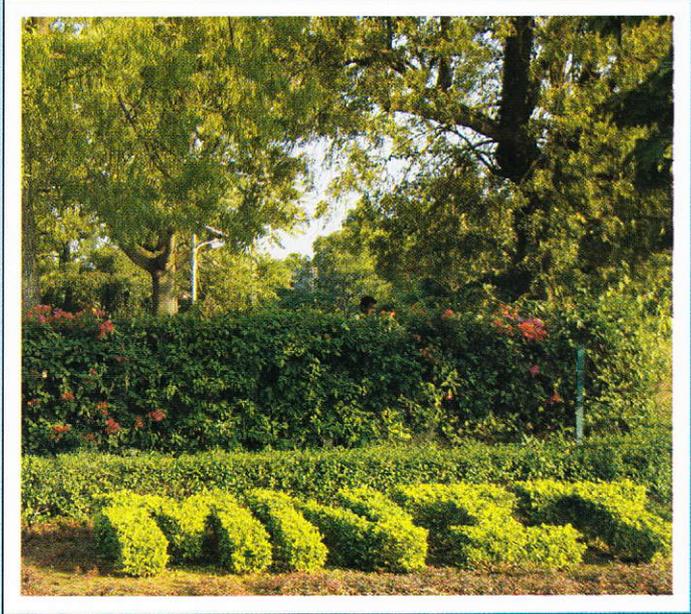
### Faculty Awards

Faculty members of the Institute won several awards and many prestigious organizations recognized contribution of the faculty members in Engineering and honoured them. The details are given in chapter 11.8.

### Grants and R& D Projects

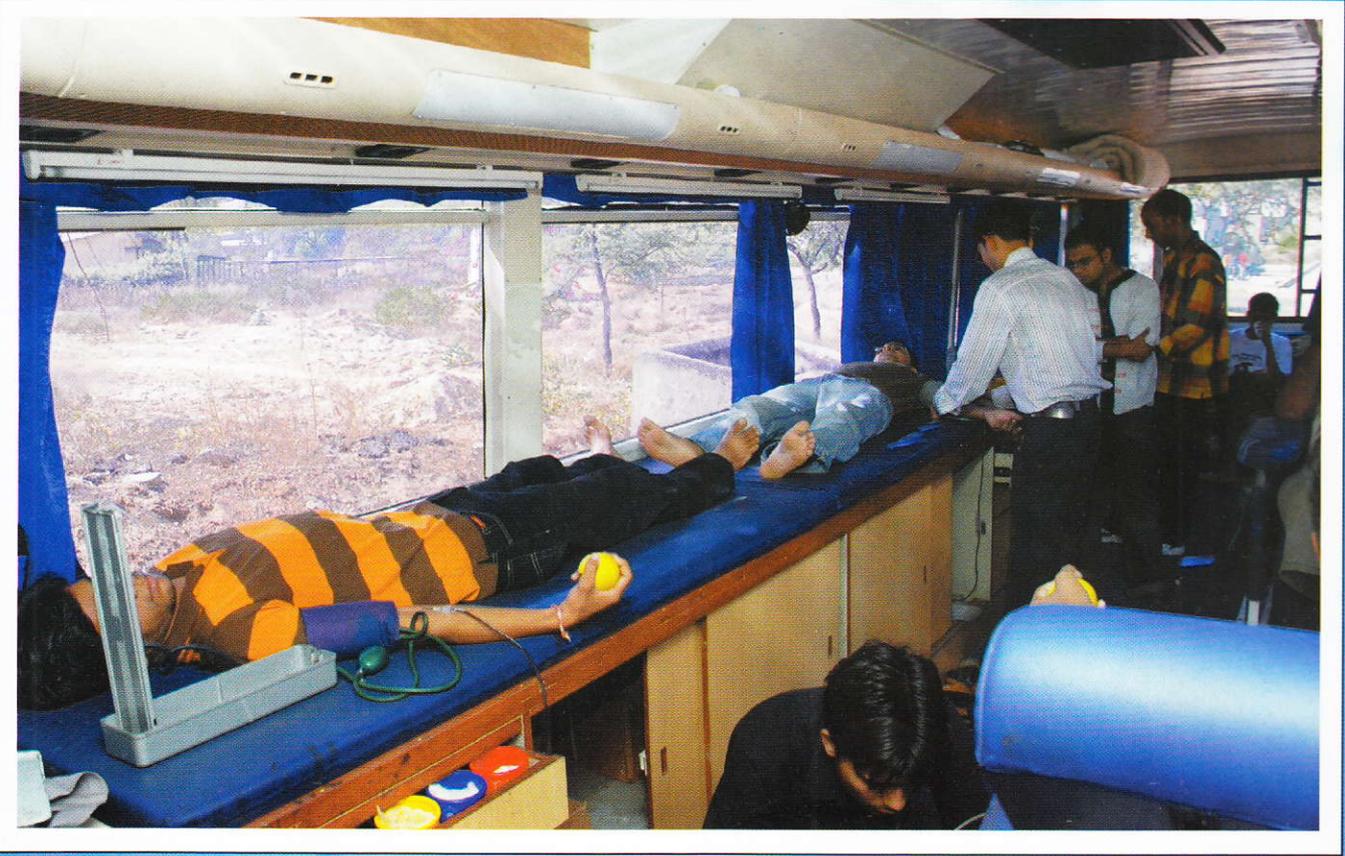
Sponsored research projects / consultancy worth more than Rs. 3.66 crores are currently under progress at the institute. The consultancy revenue generation has also increased in the Institute. The Institute is a part of Technical Education Quality Improvement Programme (TEQIP), Phase II. The details regarding research projects and consultancy projects are provided in chapter 11.3.

**Green Initiative**





**SPICMACAY Event**



**Blood Donation Camp**

## 3 THE STAFF

### 3.1 ACADEMIC STAFF (TEACHING) (As on 31.03.2011)

Designation	Name	Qualification
Director	Prof. P.K. Saxena	B.E., M.E., Ph.D.

#### DEPARTMENT OF ARCHITECTURE

Designation	Name		Qualification
Professor	1	Shri Alok Ranjan	B.Arch., M.U.R.P. (Hons.)
	2	Shri Rajeev Shringi	B.Arch., M. Plng. (Urban Planning)
Associate Professor	1	Ms. Rina Surana	B.Arch., M. Arch. (Urban Design)
	2	Shri R.N. Sharma	B.Arch., M.U.P., M. Plan
	3	Mrs. Kalpana Pandit	B.Arch., M.U.P., M. Plan
	4	Shri Tarush Chandra	B. Arch., P.G. Dip. Plng. (Urban & Regional Plan)
Assistant Professor	1	Shri Ashok Pareek	B.Arch.
	2	Mrs. Meenu Varshney	B.Arch.
	3	Shri Satish Pipralia SC	B.Arch., MURP
	4	Shri Nand Kumar	B.Arch., M. Arch.
	5	Shri Nischal Jain	B. Arch., M.Des. (Industrial)

#### DEPARTMENT OF CHEMICAL ENGINEERING

Designation	Name		Qualification
Professor	1	Dr S.P. Chourasia	B. Tech., M. Tech., Ph.D.
	2	Dr. Alok Gupta	B. Tech., M. Tech., Ph.D.
Associate Professor	1	Dr. R.K. Vyas	B.E., M.E., Ph.D.
	2	Dr. Prabhat Pandit	B. Tech., M. Tech., Ph.D.
	3	Dr. S.K. Jana	B. Tech., M. Tech., Ph.D.
	4	Mrs. Suja George	B. Tech., M. Tech.
Reader	1	Dr. Kailash Singh	B. E., M. Tech. Ph.D.
Assistant Professor	1	Shri Manish Vashistha	B. E., M. Tech.
	2	Ms. Madhu Agarwal	B. Tech., M. Tech.
	3	Shri Sushant Upadhyay	M. Tech.
	4	Shri Rajeev Kumar Dohre SC	M. Tech.

## DEPARTMENT OF CIVIL ENGINEERING

Professor	1	Dr. A.B. Gupta	B.E., M.Tech., Ph.D.
	2	Dr. Y.P. Mathur	B.E., M.E., Ph.D.
	3	Dr. B.L. Swami	A.M.I.E., M.E., Ph.D.
	4	Dr. Rohit Goyal	B.E., M.E., Ph.D.
	5	Dr. Gunwant Sharma	B.E., M.Tech., Ph.D.
	6	Dr. A.K. Vyas	B.E., M.E., Ph.D.
	7	Dr. Sudhir Kumar	B.E., M.E., Ph.D.
Associate Professor	1.	Shri. J.K. Jain	B.E., M.E.
	2	Dr. (Mrs.) Urmila Brighu	B.E., M.Tech., Ph.D.
	3	Dr. Sanjay Mathur	B.E., M.E., Ph.D.
Reader	1	Dr. Mahendra Choudhary	B.E., M.E., Ph.D.
	2	Dr. Mahesh Kumar Jat	B.E., M.E., Ph.D.
	3	Dr. Ajay Singh Jethoo	B.E., M.E. Ph.D.
Assistant Professor	1	Mrs. Nivedita Koul	B.E., M.E.
	2	Shri Pawan Kalla	B.E., M.E.
	3	Shri Arun Gaur	B.E., M.E.
	4	Shri Sumit Khandelwal	B.E., M.E.
	5	Dr. (Mrs.) Meena Khwairpakam	Ph.D.

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## DEPARTMENT OF COMPUTER ENGINEERING

Designation	Name		Qualification
Professor	1	Dr. M.C. Govil	B.E., M.E., Ph.D.
	2	Dr. M.S. Gaur	B.E., M.E., Ph.D.
Associate Professor	1	Dr. Girdhari Singh	B.E., M.S. (Software), Ph.D.
Reader	1	Dr. (Mrs) Vijay Laxmi	B.E., M.Tech., Ph.D.
Assistant Professor	1	Dr. (Mrs.) Neeta Nain	M.C.A.
	2	Mrs. Namita Mittal	M.C.A.
	3	Shri Dinesh Goplani	B.E.
	4	Shri Mushtaq Ahmed	B.E.
	5	Mrs. Vinita Agarwal	B.E.
	6	Mrs. Meenkshi Tripathi	M.Tech
	7	Shri Yogesh Kumar Meena	M.Tech

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## DEPARTMENT OF ELECTRICAL ENGINEERING

Professor	1	Dr R. A. Gupta	B.E., M.E., Ph.D.
	2	Dr. Mool Singh	B.E., M.E., Ph.D.
	3	Dr. C.M. Arora	B.E., M.E., Ph.D.
	4	Dr. K.R. Niazi	B.E., M.E., Ph.D.
Associate Professor	1	Shri A.K. Agarwal	B.E., M.Tech.
	2	Mrs. Nikita Jhajharia	B.E., M.E.
	3	Shri V.K. Jain	B.E., M.E.
	4	Dr. Vikas Gupta	B.E., M.E., Ph.D.
	5	Shri V.S. Pareek	B.E., M.E.
	6	Shri P.K. Agarwal	B.E., M.E.
	7	Dr. Manoj Fozdar	B.Sc.(Engg.), M.Sc. (Engg.), Ph.D.
	8	Dr. Harpal Tiwari	B.E., M.E., Ph.D.
	9	Dr. Rajesh Kumar	B.E., M.E. Ph.D.
	10	Shri Rajiv Tiwari	B.E., M.E.
Assistant Professor	1	Shri Mukesh Kumar Shah	B.E., M.Tech.
	2	Shri Nikhil Gupta	B.E.
	3	Shri Anil Swarnkar	B.E.
	4	Mrs. Prerna Jain	B.E., M.E.
	5	Dr. Rohit Bhakar	B.E. M.E.
	6	Mrs. Kusum Verma <i>SC</i>	B.E.

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Designation		Name	Qualification
Professor	1	Dr. Sandeep Sancheti	B.E., M.Sc. (Engg.), Ph.D.
	2	Dr. S.G. Modani	B.E., M.E., Ph.D.
	3	Dr. R.P. Yadav	M.Sc., M.Tech., Ph.D.
Associate Professor	1	Shri Sanjeev Agarwal	B.E., M.Tech.
	2	Shri Mohd. Salim	B.E., M.Tech.
	3	Dr. M.M. Sharma	B.E., M.Tech.
	4	Shri Rakesh Bairathi	B.E., M.Tech.
	5	Dr. Vinit Sahula	B.E., M.Tech., Ph.D.
	6	Dr. K.K. Sharma	B.E., M.E. Ph.D.
	7	Shri D. Boolchandani	B.E., M.Tech.
	8	Shri Tarun Verma	B.E., M.E.
	9	Shri Lava Bhargava	B.E., M.E.
Reader	1	Dr. Vijay Janyani	B.E., M.E., Ph.D.
Assistant Professor	1	Mrs. Ritu Sharma	B.E.
	2	Shri Ghanshyam Singh	B.E., M.Tech.
	3	Ms. Lalita Aseri <i>SC</i>	B.E.
	4	Shri Ashish Kumar Ghunawat	M.Tech.

**DEPARTMENT OF MECHANICAL ENGINEERING**

<b>Designation</b>	<b>Name</b>		<b>Qualification</b>
Professor	1	Prof. P.K. Saxena	B.E., M.E., Ph.D.
	2	Dr. S.C. Pathak	B.E., M.E., Ph.D.
	3	Dr. Gopal Agarwal	B.E., M.E., Ph.D.
	4	Dr. M.P. Poonia	B.E., M.E., Ph.D.
	5	Dr. A.K. Rajvanshi	B.E., M.Tech., Ph.D.
	6	Dr. S.L. Soni	B.E., M.Tech., Ph.D.
	7	Dr. A.P.S. Rathore	B.E., M.B.A., Ph.D.
	8	Dr. D.K. Jain	B.E., M.Tech., Ph.D.
	9	Dr Rakesh Jain	BE., P.G.D.I.E. Ph.D.
Associate Professor	1	Dr. G. S. Dangayach	B.E., M.Tech., Ph.D.
	2	Dr. Jyotirmay Mathur	B.E., M. Tech., Ph.D.
	3	Dr. A.K. Bhardwaj	B.E., M.E., Ph.D.
	4	Dr. Dilip Sharma	B.E., M.E. Ph.D.
	5	Dr. G.D. Agarwal	B.E., M.Tech. Ph.D.
	6	Dr. M.L. Mittal	B.E., M.E. Ph.D.
	7	Shri N.S. Yadav	B.E.
	8	Shri Amit Panchariya	B.E., M.Tech.
	9	Shri T.C. Gupta	A.M.I.E., M.Tech.
	10	Shri Nirupam Rohtagi	B.E., M.E.
Reader	1	Dr. Himanshu Choudhary	M. Tech., Ph.D.
Assistant Professor	1	Shri Makhan Lal Meena	M.Tech.

**DEPARTMENT OF METALLURGICAL ENGINEERING**

<b>Designation</b>	<b>Name</b>		<b>Qualification</b>
Professor	1	Dr. Ashok Sharma	B.Sc., B.E., M.E., Ph.D.
	2	Dr. P.R. Soni	M.Sc., M.E., Ph.D.
	3	Dr. C.P. Sharma	B.E., M.E., Ph.D.
	4	Dr. A.K. Bhargava	B.E., M.E., Ph.D.
	5	Dr. Upendra Pandel	B.E., M.E., Ph.D.
Associate Professor	1	Shri K.L. Narang	B.Sc., B.E.
	2	Dr. (Mrs.) Munan Mandira	M.Sc., M.E., Ph.D.
	3	Dr. N. C. Upadhyay	B.Tech. , M.E., Ph.D.
	4	Shri H.C. Agarwal	B.E., M.E.
	5	Dr. Y.V.S.S. Prasad	B.E., M.Tech., Ph.D.
	6	Dr. V.K. Sharma	B.E., M.E., Ph.D.
	7	Dr. S.K. Gupta	B.E., M.E., Ph.D.
Assistant Professor	1	Shri Rajendra Kr. Duchaniya	M.E.

## DEPARTMENT OF STRUCTURAL ENGINEERING

Designation	Name		Qualification
Professor	1	Dr. Ravindra Nagar	B.E., M.Tech., Ph. D.
Associate Professor	1	Dr. R.C. Gupta	B.E., M.E., Ph.D.
	2	Dr. M.K. Shrimali	B.E., M. Tech., Ph.D.
	3	Dr. Sandeep Choudhary	B.E., M.E. Ph.D.
	4	Dr. S.K. Tiwari	B.E., M.Tech., Ph. D.
	5	Dr. S.D. Bharti	B.E., M.Tech. Ph.D.
	6	Shri Rajesh Gupta	B.E., M.E.
Assistant Professor	1	Dr. Vinay Agarwal	B.E., M.E.

## DEPARTMENT OF CHEMISTRY

Designation	Name		Qualification
Professor	1	Dr. K.D.Gupta	M.Sc. (USA), Ph. D.
Associate Professor	1	Dr. (Mrs.) Jyoti Joshi	M.Sc., Ph. D.
	2	Dr. (Ms.) Ragini Gupta	M.Sc., Ph. D.
Assistant Professor	1	Dr. Mukesh Jain	M.Sc., Ph. D.

## DEPARTMENT OF HUMANITIES

Designation	Name		Qualification
Associate Professor	1	Dr. V.S. Shekhawat	M.A., M.Phil., Ph. D.
	2	Dr.(Mrs.) Nupur Tandon	M.A., Ph. D.
	3	Mrs. Nanny Tripathi	M.A., M.Phil.
Assistant Professor	1	Dr. (Ms.) Geetanjali Sharma	Ph.D.
	2	Dr. (Mrs.) Dipti Sharma	Ph.D.
	3	Dr. (Mrs.) Preeti Bhatt	Ph.D.

## DEPARTMENT OF MATHEMATICS

Designation	Name		Qualification
Professor	1	Dr. K.C. Jain	M.Sc., Ph. D.
	2	Dr. (Mrs.) Rashmi Jain	M.Sc., Ph. D.
	3	Dr. (Mrs.) Kantesh Gupta	M.Sc., M.Phil, Ph. D.
Associate Professor	1	Dr. (Mrs.) Nilama Gupta	M.Sc., Ph. D.
	2	Dr. (Mrs.) Vatsala Mathur	M.Sc., Ph. D.
Reader	1	Dr. R.C. Soni	M.Sc., M.Phil, Ph. D.
Assistant Professor	1	Dr. Sanjay Bhattar	M.Sc., Ph. D.
	2	Dr. (Mrs.) Santosh Choudhary	M.Sc., M.Phil, B.Ed. Ph. D.

## DEPARTMENT OF PHYSICS

Designation	Name		Qualification
Professor	1	Dr. S.K. Sharma	M.Sc., Ph. D.
	2	Dr. K.C. Swami	M.Sc., Ph. D.
Associate Professor	1	Dr. (Mrs.) K. Sachdev	M.Sc., Ph. D.

## NODAL CENTRE

Designation	Name	Qualification
Project Officer	--	-

## DEPARTMENT OF MANAGEMENT STUDIES

Designation	Name	Qualification
Professor	--	--
Associate Professor	--	--
Assistant Professor	--	--

## PROFESSOR OF TRAINING AND PLACEMENT

Designation	Name	Qualification
Professor	-	-

### 3.2 Non-Academic Staff (Non-Teaching as on 31.03.2011)

#### ADMINISTRATIVE/TECHNICAL OFFICER & OTHER STAFF

##### (a) Chief Academic & Executive Officer

S.No.	Designation	Name	Qualification
1	Director	Prof. P.K. Saxena	

##### (b) Administrative Officer & other staff

S.No.	Designation	Name	Qualification
1.	Registrar	Shri P.S. Dhaka (On Contract)	MBA
2	Dy. Registrar (A/cs)	Shri Diler Singh (On Deputation)	BA, L.L.B.
3	Assistant Registrar	Shri Bhurendra Singh Dr. (Mrs.) Suman Rathore (Adhoc)	B.A., L.L.B. M.A., Ph.D.
4	Executive Engineer	Shri Ashok Kumar Yadav (on Deputation)	B.E. (Civil)

5	Estate Engineer	Shri C.M.Saini (Temporary)	AMIE
6	Sports Officer	Dr. Subir Debnath	B.P.E., M.P.E., M.Phil, NET, NSNIS (Football), PGDHRM,Ph.D.
7	Internal Auditor (AAO)/ AAO	Shri R.K. Dubey Shri Birbal Singh (Adhoc)	M.Com., LLB M.A, L.L.B.
8	Liasion Officer	-	-
9	Security Officer	-	-
10	Scientific Officer	-	-
11	Student Activity Officer	-	-
12	Horticulture Officer	-	-
13	Assistant Engineer (Electrical)	-	-
14	Assistant Engineer (Civil)	-	-

**(c) Technical Officer & other staff**

S.No.	Designation	Name	Qualification
1	System Analyst	Dr. A.K. Solanki	Ph.D.
2	Programmer	Shri Sanjay Rajpal	M.C.A.
3	Librarian	Shri Deep Singh (Adhoc)	M.A., (Pub. Adm.) & M.L.I.Sc.
4	Asstt. Librarian	Smt. Kamla Joshi (Adhoc)	M.A. ,M.LIS
5	Foreman (Workshop)	-	-
6	Asstt. Foreman	-	-

**STATEMENT SHOWING THE STAFF POSITION**

**(a) Academic Staff**

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2011)
1	Director	1	-
2	Professor	34	41
3	Associate Professor/Reader	67	70
4	Assistant Professor	134	40

**(b) Administrative Officer & Other Staff**

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2011)
1	Director	1	-
2	Registrar	1	1
3	Dy. Registrar (Adm.)	2	-
4	Dy. Registrar (Accounts)	1	1 (on Deputation)
5	PS to Director	1	-
6	Executive Engineer	1	1 (on Deputation)
7	Estate Engineer	1	1
8	Sports Officer	1	1
9	Medical Officer	1	-
10	Asstt. Registrar	6	2 (1 Adhoc)
11	Section Officer	1	-
12	Internal Auditor (AAO)/AAO	2	2 (1 Adhoc)
13	Asstt. Stores Officer	1	-
14	Asstt. Sports Officer	1	-
15	Liasion Officer	1	-
16	Scientific Officer	1	-
17	Student Activity Officer	1	-
18	Security Officer	1	-
19	Assistant Engineer (Electrical)	1	1 On Contract
20	Assistant Engineer (Civil)	1	-

**(c) Technical Officer & Other Staff**

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2011)
21	System Analyst	1	1
22	Librarian	1	1 (Adhoc)
23	Foreman (Workshop)	1	-
24	Tech. Officer (Programmer) (Computer)	3	1
25	Asstt. Librarian	2	1 (Adhoc)
26	Asstt. Foreman	1	-

**(d) Ministerial Staff**

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2011)
27	PA	1	1
28	Accountant	3	2
29	Office Asstt.	3	2
30	Stenographer	3	1
31	Jr. Accountant	3	-
32	UDC	15	12
33	LDC	22	18
34	Caretaker (Hostel)	5	1
35	Storekeeper (Hostel)	2	2
36	Steno-typist	1	1

**(e) Technical & Other Staff**

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2011)
37	Tech. Asstt.	14	13
38	Jr. Estate Engineer/ Jr. Engineer	2+1	2 (Contract)
39	Mess Supervisor	1	-
40	Sr. Technician	22	5
41	Photo Lab Asstt. (Sr. Technician)		1
42	Mess Asstt.	9	6
43	Lab. Asstt.	4	1
44	Cataloguer cum Classifier	2	-
45	Compounder Gr.II	2	-
46	Technician	30	16
47	Data Entry Operator (Technician)		2
48	Electrician Gr.I	1	-
49	Driver	3	1
50	Issue Asstt.	1	2 (1 against Cat-cum-Classifier)
51	Asstt. PTI	2	-

### (f) Other Technical Subordinate & Supporting Staff

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2011)
52	Carpenter	1	1 (Adhoc)
53	Electrician Gr.II	3	3
54	Painter cum Glass Cutter	1	1 (Adhoc)
55	Plumber Gr. II	1	2
56	Pump Operator Gr. II	4	8
57	Lab. Attdt. / Sr. Cleaner	16	9
58	Book Lifter / Library Attdt.	3	2+2 (Adhoc)
69	Jamadar	1	1
60	Peons	34	24
61	Sweeper		10
62	Helper Gr. II	7	7
63	Gardener / Beldar	26*	26
64	Janitor	2*	1+1 (Adhoc)

\*Supernumerary

### (g) Part Time Posts

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2011)
65	Legal Advisor	1	1
66	Allopathic Doctor	2	2
67	Lady Doctor	1	1
68	Homeopath Doctor	1	1
69	Aurvedic Doctor	1	1

### 3.3 Training Status

The teaching staff of the Institute was deputed for various courses, summer/winter schools conferences as follows. The details are in Annexure 11.6

### 3.4 Placement of Staff for Academic Excellence

The details of faculty members deputed for Ph. D./ M. Tech. under QIP and Study leave are as follows.

S. NO.	Name of Faculty member	Name of the Deptt.	Course deputed for	Nature of Deputation
1	Ms. Reena Surana	Architecture	Ph. D.	QIP

## 4.0 TEACHING PROGRAMME

### 4.1 COURSES OFFERED

The Institute offers courses of study leading to Bachelor of Technology Degree in Civil, Mechanical, Electrical, Electronics & Communication, Information Technology, Metallurgical & Materials, Chemical, Computer Engineering and B. Architecture in Architecture Dept. Full Time/Part Time Master of Technology Degrees in Water Resources Engineering (Civil Engg. Dept.), Environmental Engineering (Civil Engg. Dept.), Power System (Electrical Engg. Dept.), Metallurgical & Materials Engg. (Metallurgical & Materials Engg. Dept.), Electronics & Communication Engg. (Electronics & Comm. Engg. Dept.), Transportation Engg. (Civil Engg. Dept.), Manufacturing System Engg. (Mech. Engg. Dept.), Structural Engg. (Structural Engg. Dept.), Chemical Engg. (Chemical Engg. Dept.), Energy Engg. (Mechanical Engg. Dept.), VLSI Design (Electronics & Comm. Engg. Dept.), Computer Engg. (Computer Engg. Dept.), Disaster Assessment and Mitigation (Civil Engg. Dept.), M. Planning [Urban Planning] (Architecture Dept.), M. Sc. in Physics Dept., M. Sc. in Chemistry Dept., M. Sc. in Mathematics Dept. are also offered. A full time M.B.A., Technology Management is also offered.

The medium of instructions and examinations is English.

### 4.2 COURSE-WISE ENROLMENT

Branch/Duration	I Year	II year	III Year	Final Year	Final Year Arch.
Architecture (5 years)	62	48	48	38	36
Civil Engg. (4 years)	92	93	93	65	
Chemical Engg. (4 years)	92	78	78	58	
Computer Engg. (4 years)	92	79	79	64	
Electrical Engg. (4 years)	90	81	81	62	
Electronics & Communication Engg. (4 years)	92	92	92	69	
Information Technology (4 years)	90	80	80	62	
Mechanical Engg. (4 years)	91	78	78	65	
Metallurgical Engg. (4 years)	75	72	72	61	
<b>TOTAL</b>	<b>776</b>	<b>701</b>	<b>701</b>	<b>544</b>	<b>36</b>
<b>GRAND TOTAL</b>	<b>2758</b>				

### 4.3 ADMISSION STATISTICS

(a) Students admitted to Undergraduate B. Tech./B.Arch. programmes through AIEEE during the session 2010-11

Name of Course	Nos. of seats allotted to students belonging to					
	SC	ST	OBC	PWD	GC	Total
Architecture	9	4	17	1	30	61
Chemical Engg.	13	7	25	2	45	92
Civil Engg.	14	6	24	3	44	91
Computer Engg.	14	7	24	3	45	93
Electronics & Communication Engg.	14	7	24	2	46	93
Electrical Engg.	13	7	25	3	44	92
Information Technology	14	7	24	3	44	92
Mechanical Engg.	13	7	25	3	45	93
Metallurgical Engg.	12	6	24	1	38	81
<b>Total</b>	<b>116</b>	<b>58</b>	<b>212</b>	<b>21</b>	<b>381</b>	<b>788</b>

(b) Students admitted to Postgraduate Programmes during the session 2010-11

(i) Full Time M.Tech./M.Plan./M.Sc./M.B.A. programmes

S. No.	Name of Course	SC	ST	OBC	PWD	GC	SP	Total
1.	Chemical Engg.	3	2	5	0	18	0	28
2.	Environmental Engg.	3	2	5	0	20	0	30
3.	Water Resources Engg.	0	0	0	0	0	0	0
4.	Structural Engg.	2	2	5	1	15	0	25
5.	Power Systems	4	0	11	0	8	0	23
6.	Transportation Engg.	2	2	5	0	15	0	24

7.	Manufacturing Sys. Engg.	3	1	5	0	18	0	27
8.	Metallurgical & Materials Engg.	2	2	2	1	8	0	15
9.	Electronics & Comm. Engg.	2	2	5	0	17	0	26
10.	VLSI Design	3	0	5	0	17	0	25
11.	Energy Engineering	3	0	4	0	17	0	24
12.	Computer Engineering	3	1	5	0	17	1	27
13.	Urban Planning	1	1	1	0	7	0	10
14.	M. Sc. Physics	1	0	2	0	3	0	6
15.	M. Sc. Chemistry	4	2	8	0	16	0	30
16.	M. Sc. Mathematics	0	0	0	0	0	0	0
17.	M.B.A.	4	0	8	0	32	0	44
	<b>TOTAL</b>	<b>40</b>	<b>17</b>	<b>76</b>	<b>2</b>	<b>228</b>	<b>1</b>	<b>364</b>

(ii) **Part Time M.Tech./M.Plan. Programmes**

<b>Branch</b>	<b>Students admitted</b>
Chemical Engineering	0
Environmental Engg.	1
Water Resources Engg.	0
Structural Engg.	4
Power Systems	3
Transportation Engg.	4
Manufacturing Sys. Engg.	4
Metallurgical & Materials Engg.	1
Electronics & Comm. Engg.	3
VLSI Design	2
Energy Engineering	2
Computer Engineering	4
Urban Planning	0
<b>Total</b>	<b>28</b>

**(iii) Ph.D. Programmes**

S. No.	Department	Students admitted	
		Full Time	Part Time
1.	Electronics & Comm. Engg.	3	1
2.	Electrical Engg.	4	1
3.	Civil Engg.	2	-
4.	Chemical Engg.	1	-
5.	Computer Engg.	1	-
6.	Structural Engg.	--	-
7.	Mechanical Engg.	7	-
8.	Metallurgical & Materials Engg.	1	-
9.	Physics	1	-
10.	Chemistry	2	-
11.	Mathematics	1	-
12.	Humanities & Social Sciences	2	-
13.	Management Studies	1	-
	<b>Grand Total</b>	<b>26</b>	<b>2</b>

**4.4 Students Total Strength (Under-Graduate)**

Branch/Duration	I Year	II year	III Year	Final Year	Final Year Arch.
Architecture (5 years)	62	48	48	38	36
Civil Engg. (4 years)	92	93	93	65	
Chemical Engg. (4 years)	92	78	78	58	
Computer Engg. (4 years)	92	79	79	64	
Electrical Engg. (4 years)	90	81	81	62	
Electronics & Communication Engg. (4 years)	92	92	92	69	
Information Technology (4 years)	90	80	80	62	
Mechanical Engg. (4 years)	91	78	78	65	
Metallurgical Engg. (4 years)	75	72	72	61	
<b>TOTAL</b>	<b>776</b>	<b>701</b>	<b>701</b>	<b>544</b>	<b>36</b>
<b>GRAND TOTAL</b>	<b>2758</b>				

## 4.5 HOSTELS

There are ten hostels for the students of our Institute. The details of rooms are as follows:

Hostel No.	Single Seated Rooms	Double Seated Rooms	Triple Seated Rooms	Total Capacity
1	72	-	36	216
2	72	-	36	216
3	72	-	36	216
4	72	36	-	180
5	182	-	-	182
6	72	-	36	180
7	-	-	75	225
8	212	-	-	212
<b>New Boys Mega Hostel</b>	<b>125</b>	-	-	<b>125</b>
Girls Hostel	48	68	14	226
<b>New Girls Mega Hostel</b>	<b>125</b>	-	-	<b>125</b>
P.G. Hostel	16	-	-	16
<b>GRAND TOTAL</b>	<b>818</b>	<b>104</b>	<b>233</b>	<b>2194</b>

**Note: In Hostels 1, 2, 3 & 7 four students have been adjusted in triple seated rooms and hostel 4 three students in double seated rooms.**

### Administrative set up for Hostels

S. No.	Admn. Warden	Mess Warden	Mess Assistants	Caretakers	Gardner	peon
1	15	-	7	3	2	1

## HOSTEL/ MESS MANAGEMENT

A Mess is attached to each hostel except Hostel No. 1, 8 & P.G. Each mess is managed by the Students Mess Committee consisting of Mess Secretary and Student representatives Mess Members. Entire salary of the mess servants is borne by the students themselves through MNIT Students Mess account.

There is one Common Room for each hostel, having the facility of a colour television, and one Table Tennis table. Major overhaul is under process for provisioning of the following:

- Complete coverage of Wi-Fi to old hostels.
- Wired connectivity in the New hostels
- Renovation of Messes
- Automation of Messes

## 4.6 SCHOLARSHIP/ASSISTANCESHIP

The details for scholarships to postgraduate students, Ph. D. scholars, general scholarships and stipends and also state level scholarships for merit students/SC/ST/OBC (UG students) are given in chapter 11.11.

## 4.7 GAMES AND SPORTS

The Institute Physical Education and Sports have created and developed a positive and healthy sports culture among Students, staffs and their family members. are enjoying one of the best facilities of the Institute. The vision is to produce fit engineers for the nation with improved quality like positive leadership among students, men managing, Cardio respiratory development, general motor ability, quick decision making ability, body sculpture and especially Fitness and Diet awareness. The Office is managing more than 3500 students and staff members and their wards. The existing games and Sports facilities are:

### INDOOR FACILITIES

S.No	Facilities	Number
1.	Badminton, Carrom and Chess	01 No.
2.	Billiard room	01 No.
3.	Gymnasium (Weight Training and Power lifting)	01 No.

### OUTDOOR FACILITIES

S.No	Facilities	Number
1.	Tennis Courts (Flood Light)	02 No.
2.	Volleyball Courts (Flood Light)	03 No.
3.	basketball Courts(Flood Light)	02 No.
4.	Play Field (Cricket Nets, Cricket Field, Football Field and Athletic Track and Field)	01 No.

### ACHIEVEMENTS :

MNIT games and Sports have achieved a mile stone by winning with records for the period from 1st April 2010 to 31st March 2011 are as follows:

- Ms. Sommya Mahalawat (B Arch) was selected as a Captain and Ms. Bhumika Saini (Meta.) as a player for "Rajasthan State Senior Women Football Team - 2011.
- MNIT became the overall Champion in the All India Sports Tournament BOSM'10 (BITS, Pilani, Rajasthan). Dr. Virender Singh, Assistant Sports Officer was the Coach-cum-manager of the contingent.
- In MST'11 (All India Invitational Sports Tournaments) and MNIT became overall champion.
- MNIT Cricket team (Men) became the Runner's up in the All India Inter NIT Cricket Tournament, (Suratkal, Karnataka).



**Volleyball Match in Progress**



**MST'11 Men's Basketball**



**MST' 11 Basketball Match in Progress**



**BOSM'10 Pilani Winning Contingent**

- e) MNIT Basketball (Men) and Table Tennis (Women) team became Champion in the All India sports meet, (LNMIIT, Jaipur, Rajasthan). Dr. Subir Debnath, Sports Officer was the Coach-cum-manager of the contingent.

#### ORGANIZATION (ALL INDIA LEVEL):

MNIT organized MST'11 in the month of Feb. 2011 (All India Invitational Sports Tournaments) where more than 450 students from different Engineering College/Institutes participated in the tournament.

#### ORGANIZATION (INSTITUTIONAL LEVEL):

In this session Inter-Branch and Inter- Hostel Games and Sports tournaments were organized successfully. Improvised sports Tournaments as: Hongkong Cricket, 5- aside Football, 2+2 Volleyball and 2+2 Basketball were organized. Athletic meet and prize distribution could not be organized. Staff Achievement:

Dr. Subir Debnath, Sr. Sports Officer was invited to chair a Symposium Session and to deliver a paper at the 16th Asian Games Science Congress held at Guangzhou, China from 9th -12th October 2010.

### 4.8 AWARDS

MNIT Jaipur participated in a number of national level events and has won many awards. The details are given in chapter 2.13.

### 4.9 EXAMINATION DETAILS

#### (a) Results of Undergraduate Courses of final B.Tech./B.Arch. courses 2009-10

Disciplines	N o. of students appeared	No. of students passed with CGPA on a 10-point scale			Registered in next semester	Total
		Above 7.75 CGPA	7.74 to 6.75 CGPA	6.74 to 5.0 CGPA		
Final B. Architecture (5-year course)	21	4	9	5	3	21
Final B. Tech. Civil Engg.	57	25	19	10	3	57
Final B. Tech. Chemical Engg.	52	22	18	11	1	52
Final B. Tech. Computer Engg.	61	26	24	8	3	61
Final B. Tech. (Information Technology)	59	27	19	7	4	59
Final B. Tech. Electrical Engg.	57	20	28	8	1	57
Final B. Tech. Electronics & Communication Engg.	64	28	20	13	3	64
Final B. Tech. Mechanical Engg.	52	21	18	7	6	52
Final B. Tech. Metallurgical Engg.	47	21	17	9	0	47

\* one student expired

**(b) Results of Postgraduate Courses of final year M.Tech./M.Sc./MBA 2009-10**

Disciplines	N o. of students appeared	No. of students passed with CGPA on a 10-point scale			Registered in next semester	Total
		Above 7.75 CGPA	7.74 to 6.75 CGPA	6.74 to 5.0 CGPA		
M. Tech. in Environmental Engg.	10	10	0	0	0	10
M. Tech. in Water Resources Engg.		0	0	0	0	0
M. Tech. in Transportation Engg.	14	14	0	0	0	14
M. Tech. in Power Systems	15	10	5	0	0	15
M. Tech. in Electronics & Comm. Engg.	18	16	2	0	0	18
Manufacturing System Engg.	10	6	2	2	0	10
M. Tech. in Non-ferrous (Met.)	0	0	0	0	0	0
M. Tech. in Structure Engg.	11	10	1	0	0	11
M. Tech. in Chemical Engg.	9	6	3	0	0	9
M. Tech. in VLSI Design	16	14	1	1	0	16
M. Tech. in Energy Engg.	9	5	4	0	0	9
M.Sc. in Chemistry	20	16	3	1	0	20
M. Sc. in Physics	16	7	8	1	0	16
MBA	32	19	12	1	0	32

**4.10 TRAINING AND PLACEMENT**

The department of training and placement provides on the job practical training and placement services to the student of engineering and architecture. practical training is arranged in private/public manufacturing industries, government engineering departments, engineering consultancy organizations, architectural companies and consultants, information technology firms, R&D organizations and other institutions, which provide real life products and services a large computerized database of more than 1000 such organizations is maintained and updated continuously to cater to the needs of training and placement of students. The department has got well-equipped air -conditioned seminar hall and group discussion room having latest audio-visual facilities, for pre-placement seminars, GD and interviews conducted by recruiting organizations.

**Training :** The academic curriculum provides for 60 days of Practical/Industrial Training during summer vacation after VI semester. The Placement and Training Cell facilitates the practical training of students in Companies/Industries/Organizations of National and International repute. Some of the students also get Research Internship offers from Germany, Canada, UK, Singapore, South Korea, Finland etc. Students also go for research projects as summer interns in IIT's, IISc, IIM's and CEERI Pilani

Some prominent organizations include NTPC, BHEL, SAIL, IOCL, BPCL, DRDO, C-DOT, ISRO, MARUTI, HERO HONDA & IT companies.

**Placement :** In the academic session 2010-11, 104 organizations visited the institute for the recruitment of B.Tech. students and selected 444 students with total offers of 659 out of total 360 eligible candidates. In addition to this 45% of M.Tech./MBA/M.Sc. were selected. The maximum and average packages offered are 9.88 LPA and 4.44 LPA respectively.

The details are given in chapter 11.2

## 5.0 RESEARCH AND DEVELOPMENT ACTIVITIES

Research & Development activities of the Institute are governed by Dean, R&D Office. The Institute not only gives due emphasis to investigation of problems of direct relevance to the needs of the country through time-bound sponsored and consultancy projects aimed at solving existing industrial problems, but also focuses on emerging areas like atmospheric sciences, laser applications, biotechnology, energy, transportation, microprocessor applications, computer sciences, optical communication, signal processing, computer aided design and manufacturing and artificial intelligence and robotics. The most recent include Bio-informatics, Environmental Sciences and Engineering, Nanotechnology, Real-Time Embedded Systems and Rural Industrialization. Two Centres of excellence (Centre for Building Technology and Construction Materials and Centre for Energy and Environment) have been established in the Institute to enhance the research activities.

The nature and extent of the industrial consultancy projects undertaken by the Institute is an index of its credibility with the industry and is symbolic of the relevance of a centre of excellence in the context of the socio-economic development of the nation. Sponsored research projects / consultancy worth more than Rs. 3.66 crores are currently under progress at the institute. The consultancy revenue generation has also increased in the Institute. The Institute is a part of Technical Education Quality Improvement Programme (TEQIP), Phase II.

### 5.1 Ph.D. PROGRAMMES

The Institute offers a full time/part time advanced programme leading to the Ph.D. degree in the areas of Engineering/Technology/Sciences/Humanities & Social Sciences, Management. Admission to these programmes is open to individuals from all disciplines, twice a year, for the Autumn (July) and Spring (January) semesters. The admission process is based on the past academic record, a research proposal, references and a personal interview. Upon admission students have to complete minimum course requirements and clear a comprehensive examination before commencing with their doctoral research under the guidance of a supervisor and research committee of the student concerned. The Institute offers a variety of competitive scholarship and assistance to full-time Ph.D. students.

Minimum Qualifications	Normal duration	Maximum duration
B.Tech./M.Sc./MBA	Full Time: 6 Semesters	10 Semesters
M.Tech.	Part Time: 4 Semesters	10 Semesters

### 5.2 DETAILS OF Ph.D.

Earlier the Ph.D. students were registered under the University of Rajasthan, Jaipur and degree of Ph.D. was awarded by the University of Rajasthan.

The first batch registered for Ph.D. programme under MNIT in 2005.

The details of total Ph. D. awarded in 2010-11 is shown in table below.

Branch	Total Degrees
Civil Engg.	1
Chemical Engg.	1
Computer	3
Electronics & Comm. Engg.	5
Electrical Engg.	1
Mathematics	3
Humanities & So. Sc.	1
Mechanical Engg.	6
<b>TOTAL</b>	<b>21</b>

### 5.3 PROPOSED PLAN FOR RESEARCH

Each department of the Institute has identified its area of strength and intends to focus in these areas for best results. Full-Time Ph.D. studentships are also proposed to attract engineering graduates to pursue research at the Institute.

### 5.4 INSTITUTE- INDUSTRY COLLABORATION Institute- Industry Partnership Cell

#### Background

Indian industry at present has reached the most crucial turning point where it has to face the dynamic demands of the competitive domestic and global markets through the provisions of high quality products and services. To survive and succeed in this new scenario, the input that is most essential is the human resource. As technologies change rapidly, retraining and updating of the work force continuously are becoming major challenges facing every country today. Malaviya National Institute of Technology Jaipur has setup a separate Industry Institute Partnership Cell (under aegis of the AICTE) for this purpose.

#### Aims and Objectives

- (i) To develop close links between industry-Institute by interaction programs. High priority to activities designed to bring about improvement in the performance of the industry.
- (ii) Mobility of industrial personnel. A partnership approach.
- (iii) To identify the present day requirements for professionals (engineers/ technologists/ managers) and meeting the future human resource needs.
- (iv) To disseminate technical advances through informal educational techniques.
- (v) To train the shop floor personnels by continuing education programme.
- (vi) Widening and effective implementation of the area of Research & Development and consultancy.

#### Workshop Organized

One day workshop on Industry-Institute Interaction was organized on July 31, 2010 in collaboration with IIT Roorkee

### 5.5 CONVOCATION

No convocation could be held during the year

## **6.0 THE COUNCIL, BOG AND OTHER COMMITTEES**

### **6.1 BOARD OF GOVERNORS BOARD OF GOVERNORS**

The composition and details of Board of Governors is given in chapter 11.1

### **6.2 FINANCE COMMITTEE**

The composition and details of finance committee is given in chapter 11.2

### **6.3 BUILDING AND WORKS COMMITTEE**

The composition and details of Building and works Committee is given in chapter 11.2

### **6.4 OTHER COMMITTEES**

Senate is the supreme body for taking policy and other decision on academic matters and composition and details of Senate is given in chapter 11.2

## 7.0 CONCESSIONS FOR SCs, STs, HANDICAPPED STUDENTS

### 7.1 CONCESSIONS PROVIDED FOR STUDENTS

#### Admission Policy

According to the admission rules laid down by the Govt. of India, the following reservations are made for admission to undergraduate courses at the MNIT, Jaipur. The same applies for Post Graduate courses

(i)	OBC candidates	27%
(ii)	Scheduled Caste candidates	15%
(iii)	Scheduled Tribe candidates	7.5%
(iv)	Physically Handicapped Candidates	3%

#### Tuition Fee Waiver

Students belonging to SC/ST category are given 100% tuition fee waiver.

#### Library facilities

There is a separate Book Bank for SC/ST students. The number of books issued to each SC/ST student is 11 in comparison to 6 for General students.

#### Scholarships

Various state governments and Board for social Welfare Provide scholarships to SC/ST students.

### 7.2 CONCESSIONS PROVIDED FOR STAFF

The reservation policy and other benefits as directed by Government of India from time to time are implemented.

## 8 FINANCIAL STATUS

### 8.1 ANALYSIS OF THE PLAN AND NON-PLAN GRANT

During the year 2010-11 the Institute received grants under Plan and Non-plan (entirely from Government of India) as given below :

	(Rs. in Lakhs)
<b>Plan Grant</b>	
(i) Non Recurring (Building, Equipment, etc.)	700.00
(ii) Project Grants (MODROB, TAPTEC & R & D, TEQIP)	76.44
(iii) Plan (OBC)	1100.00
(iv) Other Plan Activities	38.77
<b>TOTAL (Plan Grant)</b>	<b>1915.21</b>
<b>Non-plan Grant</b>	
(i) (UG/PG Courses)	2300.00
(ii) Other Grants	13.89
<b>TOTAL (Non-plan Grant)</b>	<b>2313.89</b>
<b>GRANT TOTAL (Plan &amp; Non-plan Grant)</b>	<b>4229.10</b>

### 8.2 SOURCE OF FUNDS

- |   |                        |
|---|------------------------|
| (i) Grant in Aid from Government of India |                        |
| (ii) Tuition fee from students            | (iii) Rent             |
| (iv) Interest                             | (v) Other Misc. Income |

### 8.3 EXPENDITURE POSITION FOR LAST THREE YEARS

(Plan, Non-plan & TEQIP)

Years	Expenditure (₹ in Lakhs)
2008-09	3257.22
2009-10	7012.69
2010-11	7995.74

## 9.0 CENTRAL FACILITIES AND SERVICES

### 9.1 CENTRAL COMPUTER CENTRE

The Central Computer Centre, a centralized computing facility of the Institute since 1989, caters to the need of different academic departments and various sections of the Institute by providing and managing extensive computing & networking facilities of the Institute. The Central Computer Centre of MNIT Jaipur with its mission and dedication to create and maintain a computing environment for the pursuit of academic excellence, opens for extended hours well beyond Institute hours. The Center as being a dedicated resource unit, provides professional services, promotes and assists towards the use of new computing technology among the students, staff and administration at the Institute. The Central Computer Centre at MNIT Jaipur has committed itself to be a leading computational facility in higher education in this part of the country by providing the Institute community with state-of-art facilities to cater to their computational needs and access to internet resources and online functioning of all processes of the Institute. To facilitate the use of the latest information technology in Institute's teaching, learning, research and administration; to provide an excellent network environment that facilitates the access and exchange of information; to put innovation in technology transfer; to assist the Institute in it's mission; to enable faculty, staff and students to use the computer and network resources effectively and efficiently; and to aim to provide the best quality IT services in the region, the Computer Centre at MNIT Jaipur has continued to re-engineer the process of its service operations for increased productivity and better quality. The Computer Center also provides internet and intranet facilities to all users in the Institute. For the network services, centre has the high end computational servers on which LDAP accounts are created for students, staff and faculty of the departments for accessing internet in a secured way and the same provided them secured email accounts on Institute's mail server. The entire Institute has been connected through an extensive fibre optic network spread over all academic buildings as well as the hostels. The present campus network basically comprise of nearly 25 KMs of Fibre Optic cable backbone with around forty routed internal networks. The Internet connectivity to the campus is through a 144 Mbps Leased Line connection from BSNL. There are more than 2500 no's of computers connected to the network and at any time around 1000 of them are connected to the Internet.

### 9.2 WORKSHOPS

There are existing Workshop facilities in Mechanical Engineering Department which cater to workshop needs for all first year students, as per different course requirements as well as needs of the other departments. It is undergoing modernization.

### 9.3 LIBRARY

#### 1. Total Floor Area : 15847 sq feet (space per student - 7.5 sq feet)

The glazing work (Glass Partitions) for air conditioning of the library has been done.

Library has ten stack halls for books, periodicals (current and bound volumes), video cassettes,

Reference Section and book bank. All the halls except book bank are having seating arrangement for users.

## 2. Member

- |    |                           |      |
|----|---------------------------|------|
| a) | Students                  | 3636 |
| b) | Faculty and staff members | 364  |

## 3. Issue of Books (Circulation, approx) :-

- |    |                      |                 |
|----|----------------------|-----------------|
| a) | Main Library Counter | 80,000 per year |
| b) | Book Bank            | 60,000 per year |

## 1. No. of Visitors (on Membership basis) approx. 1700 Per day

(Faculty, Staff, Students and fee based members)

## 2. Timings

09.00 A.M. to 07.00 P.M. (Monday to Friday)

09.00 A.M. to 05.00 P.M. (On Saturdays)

## 3. Holdings from 01/04/2010 to 31/03/2011

S.No.	Particulars	As on 01/04/2010	Added During 2010-2011	As on 31/03/2011	Withdrawn	Available holdings
1	Library books	76525	689	77213	3352	*73861
2	Back Volumes	13580	-	13580	120	13460
3	ISI Standards	12498	-	12498	-	12498
4	Book Bank (Gen.)	36189	-	36189	-	*36189
5	Book Bank (SC/ST)	18478	-	18478	-	*18478
6	CBIP Publications	531	-	531	-	531
7	CD ROMs	846	-	-	-	846
<b>Total holdings available</b>						<b>155863</b>
<b>* Physical verification was conducted and final report is to be submitted.</b>						

**7 NON PRINT MATERIAL**

		Total Numbers
1	Video Cassettes	1035
2	CD-ROM Databases + LRs (On different subjects)	846
3	CDs & Floppies (Received with books & magazines)	approx.800

**8 EXPENDITURE (2010-2011)**

**(A) Books & Periodicals (Non-UG Plan)**

(i) Books	Rs. 5,44,572.00
(ii) Journals	Rs. 49,170.00
(iii) News Papers & Magazines	Rs. 22,558.00

**(B) Project -**

ISEA-Computer Engg.	Rs. 94,885.00
<b>Grand Total Expenditure A &amp; B</b>	<b>Rs.7,11,185.00</b>

**9 INDIAN JOURNALS SUBSCRIBED**

<b>33</b>	
Journals / News Letters report etc. (on Complementary basis)	<b>85</b>

**10. ELECTRONIC/ONLINE RESOURCES**

- i) Online foreign journals (INDEST-AICTE Consortium, MHRD, GOI)

S.No.	Electronics Resources	URL
01	ACM Digital Library	<a href="http://portal.acm.org/portal.efm">http://portal.acm.org/portal.efm</a>
02	ASCE e-Journals	<a href="http://www.pubs.asce.org/journals/uns.html">http://www.pubs.asce.org/journals/uns.html</a>
03	ASME e-Journals	<a href="http://www.asme.org/pubs/journals">http://www.asme.org/pubs/journals</a>
04	Annual Reviews	<a href="http://www.annualreviews.org">http://www.annualreviews.org</a>
05	Applied Science & technology Plus (ASTP)	<a href="http://www.il.proquest.com/pqdauto">http://www.il.proquest.com/pqdauto</a>
06	IEL Online ( IEE & IEEE)	<a href="http://ieeexplore.ieee.org">http://ieeexplore.ieee.org</a>
07	Indian Standards ( BIS Codes)	Intranet Version
08	Project Muse	<a href="http://www.muse.jhu.edu">http://www.muse.jhu.edu</a> .
09	Nature	<a href="http://www.nature.com/">http://www.nature.com/</a>
10	Springer Link	<a href="http://www.springerlink.com/">http://www.springerlink.com/</a>
<b>Bibliographic Databases</b>		
11	J-Gate Custom Content for Consortia (for Online Request for Research Papers)	<a href="http://jccc-indest.informindia.co.in/">http://jccc-indest.informindia.co.in/</a>

- ii) BIS Codes updated till June, 2009 ( Through Intranet)
- iii) CD-Rom Databases (846 CD-ROMs on engineering subjects)
- iv) Access to Bibliographical Databases of foreign journals more than 6500 journals being received by IITs & IIS Bangalore and IIMS (Users receive Research papers by submitting their requests through JCCC ) under INDEST - AICTE Consortium.
- v) DELNET Database services for research papers & Books.

#### **11. Library Services:-**

- 1 Issuing of books (Main Library)
- 2 Issuing of books (Book Bank)
- 3 Video Viewing Services
- 4 CD-ROM Databases
- 5 Reprographic Services (Photocopy Services)
- 6 Periodicals Services
- 7 Internet facility
- 8 JCCC- Research papers from IITs, IIMS, IISc.
- 9 DELNET Services
- 10 Inter Library Loan (ILL) Services through DELNET
- 11 Reference Services
- 12 BIS and IRC Codes
- 13 Attending Users queries
- 14 Display of New Arrivals
- 15 Display of Important notices/ pamphlets etc.
- 16 Services to outside members

#### **12 Orientation Programmes -**

The students of U.G. are introduced to Library and its services, about Online Resources ,Database Services and their usage. Readers' Tickets are also prepared & distributed at the same time.

P.G. Student, Research Scholars and Faculty Members are also guided to use the INDEST-AICTE Consortium services and DELNET Database services.

### 13 Additional information:-

- 1 Newly Purchased books are displayed in the Central Hall to make the users aware about new arrivals.

### 14 Future Plan

- 1 OPAC (Online Public Access Catalogue)
- 2 Fire safety measures
- 3 Purchased of Furniture items

## 9.4 NODAL CENTRE

### NATIONAL TECHNICAL MANPOWER INFORMATION SYSTEM (NTMIS)

#### A Brief Profile :

National Technical Manpower Information System (NTMIS) is a Non-Plan permanent Scheme of Ministry of Human Resource Development funded by All India Council for Technical Education & implemented by Institute of Applied Manpower Research, New Delhi. NTMIS is the most powerful instrument to cater the requirements of the planners of Technical Education in the country and also the data producers and users. NTMIS generate information, on which the decision could be taken to regulate the technical education for meeting out the requirements of Technical Manpower of different categories needed for economic development of Nation.

The system comprises a Manpower Cell in the Ministry of Human Resources Development at New Delhi, and 21 Nodal Centres spread all over the country of which four are located in four Regional Boards of Apprenticeship Training.

**Nodal Centre at Rajasthan State exists in MNIT, Jaipur, since 1986. It is an integral part of Malaviya National Institute of Technology, Jaipur and is carrying out technical manpower surveys for the state of Rajasthan for the last about twenty five years.** During 2003-2004, other disciplines like Management, Pharmacy and Hotel Management have been included under our survey work. Throughout these years the progress work of Nodal Centre remained satisfactory in the context of generating information and disseminating the same within the time frame provided by the Lead Centre IAMR, New Delhi.

#### The Objectives of the NTMIS are: -

- Estimation of short-term requirements of different categories of engineering and technical manpower in different fields with branches of specialization.
- Estimation of supply of different categories of engineering and technical manpower on the basis of existing intake and outturn figures.
- Assessment of anticipated gaps in demand and supply position in the present and in the future years.
- Collection and analysis of data to match the job requirements with facilities for education and training.

- Provide forecasts about adequacy or shortage of manpower requirements in the future years and consequently about the adequacy of the current enrolment rate.
- Undertake studies for assessment of future needs and for giving indications about the specialized areas and fields requiring urgent attention for expansion of facilities for education and training.

### **Functions of the Nodal Centres :**

The Nodal Centres (Other than the Boards) have the following functions:-

- to collect data from the graduates and engineering academic institutions ;
- to process data collected by the centre itself and that transferred by the concerned Regional Board of Apprenticeship Training and develop state-wise data base and generate state level tabular reports ;
- to conduct analytical studies, answer state level queries and prepare reports ;
- to transfer data and tabular reports to the Lead Centre ; and
- to transfer relevant data to other Nodal Centres.

The Nodal Centre of Rajasthan is currently conducting the various surveys of about 376 technical institutions located in Rajasthan.

- ❖ 101 Degree Level Engineering
- ❖ 79 Diploma Level Engineering (Both Men & Women)
- ❖ 121 MBA institutions.
- ❖ 43 B.Pharma Institutions.
- ❖ 27 D.Pharma Institutions.
- ❖ 5 Hotel Management and Catering Technology

### **Various Activities of Nodal Centre, during April 2010 to March 2011.**

- 1) Completed "Annual Technical Education Review (ATER)" for Rajasthan for the year 2010. It includes:
  - (a) **Graduate Follow-up Survey 2009** : This consists of the survey of the Degree & Diploma Students of Engineering, MBA, Pharmacy and HMCT passed out in 2009 for the preparation Annual Technical Education Reviewer 2010.
  - (b) **Institutional Survey 2009** : This consists of collecting information form the technical Institution for the year 2009 regarding Branch-wise Sanctioned Intake, Outturn, Technical Teaching Staff position, Number of students studying in different years etc.
  - (c) **Establishment Survey 2009** : Board of Apprenticeship Training, Kanpur, conducts this survey.
- 2) Completed coding of data, its entry in computer and compilation, for the year 2009.

- 3) Mail Survey of the Year-2010 for the Annual Technical Education Review-2011 is in progress.
- 4) Received filled up Institutional Questionnaire for the year 2010 from the Engineering (Degree and Diploma), MBA, Pharmacy and Hotel Management institutions in Rajasthan.
- 5) This Nodal Centre is equipped with the facilities like photocopier Machine, Fire Extinguisher, Fax Machine, two Computer Systems, Air-Conditioner & Telephone, provided by I.A.M.R. (NTMIS), New Delhi.

## **9.5 LABORATORIES**

In addition to Central workshop and Central computer Centre, each department has laboratories in their specific areas of specialisation. These laboratories are being used conducting experiments for B.Tech and M. Tech. students for their regular course work and also for research purposes. Few more laboratories have also been created to cater to the needs of research scholars. These laboratories provide facilities for research and being used by faculty, Ph.D. and M.Tech. students.

## **9.6 HOSPITAL, POST OFFICE, SHOPPING CENTRE**

The Campus of the Institute is spread over an area of 125.04 hectares. It presents a spectacle of harmony in modern architecture, natural beauty and picturesque surrounding. The campus area has been organized into three functional sectors:

1. Hostels for Students
2. Instructional Buildings
3. Residential Sector for the Staff

The instructional buildings have been so located that these are fairly near to both the hostels and the staff quarters and are at a walking distance from both. There is a branch of The Bank of Rajasthan Ltd. on the premises and a Post-office in the campus. A team of Medical Officers and two Compounders supervises a full-fledged dispensary. The Institute has also been extending facility of a Part-time Homeopathic doctor and a Lady Doctor in the campus. Adequately equipped Canteen building, one near the instructional zone and one near the hostels provide facilities to the students and the staff during and beyond the working hours of the college. There is a milk booth on the campus, a barber's shop, washer men, stationary shop and a government co-operative store to provide amenities to the residents.

## **9.7 PHYSICAL FACILITIES**

The Institute is spread over an area of 125.04 hectares.

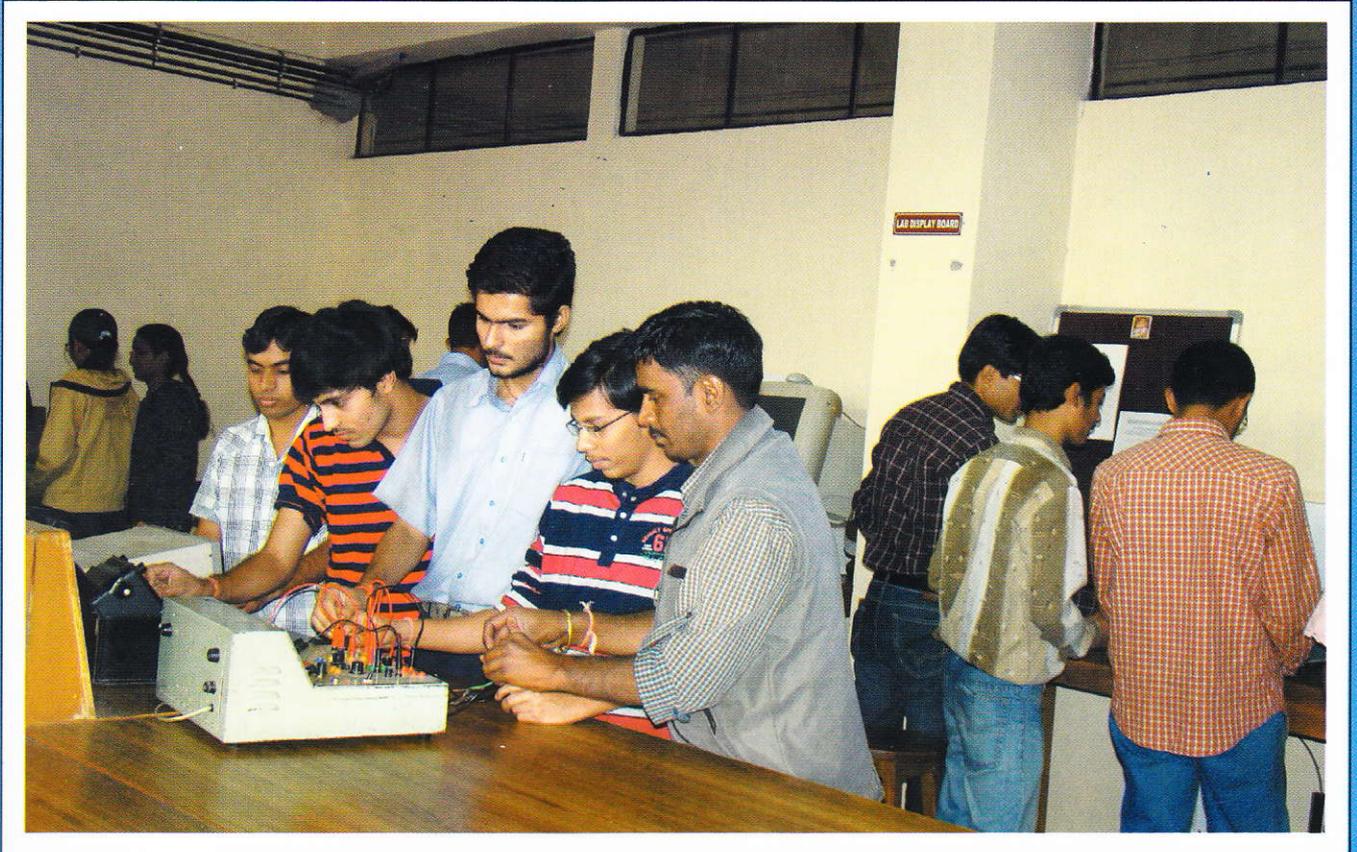
The total built up area is divided broadly in three categories

Academic Area

Administrative area

Residential block

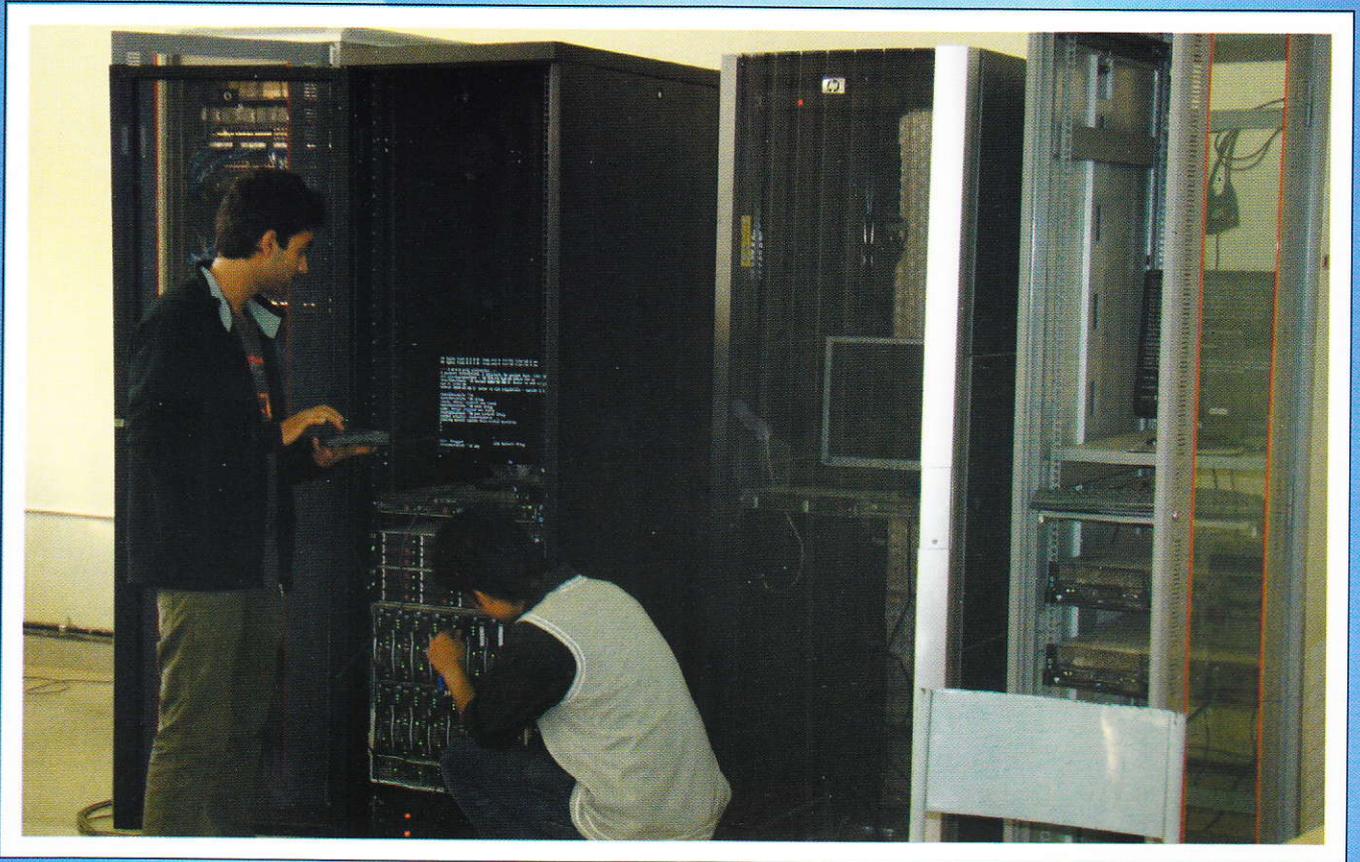
Games and sports facilities.



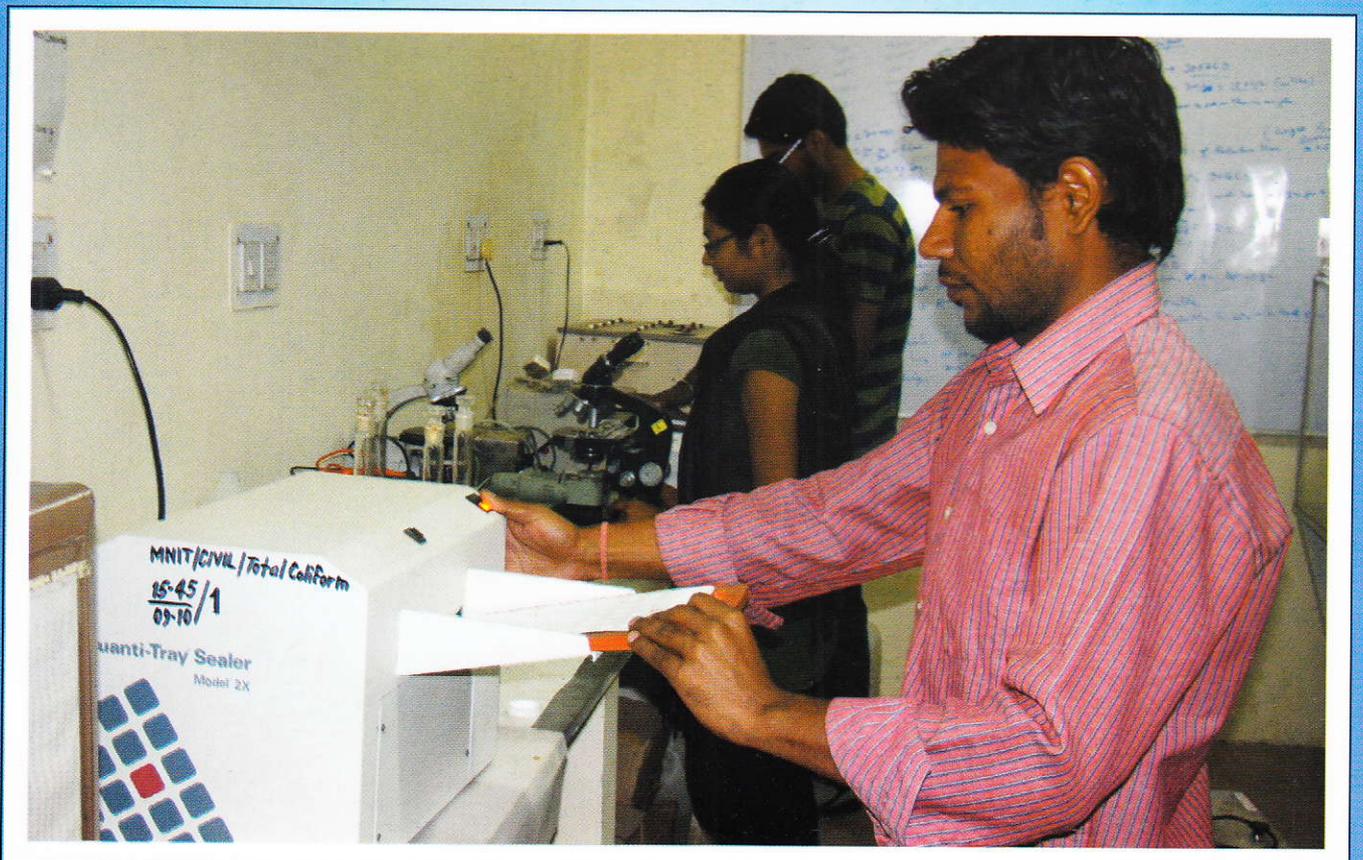
**Communication Engineering Lab ECE Department**



**Scanning Electron Microscope**



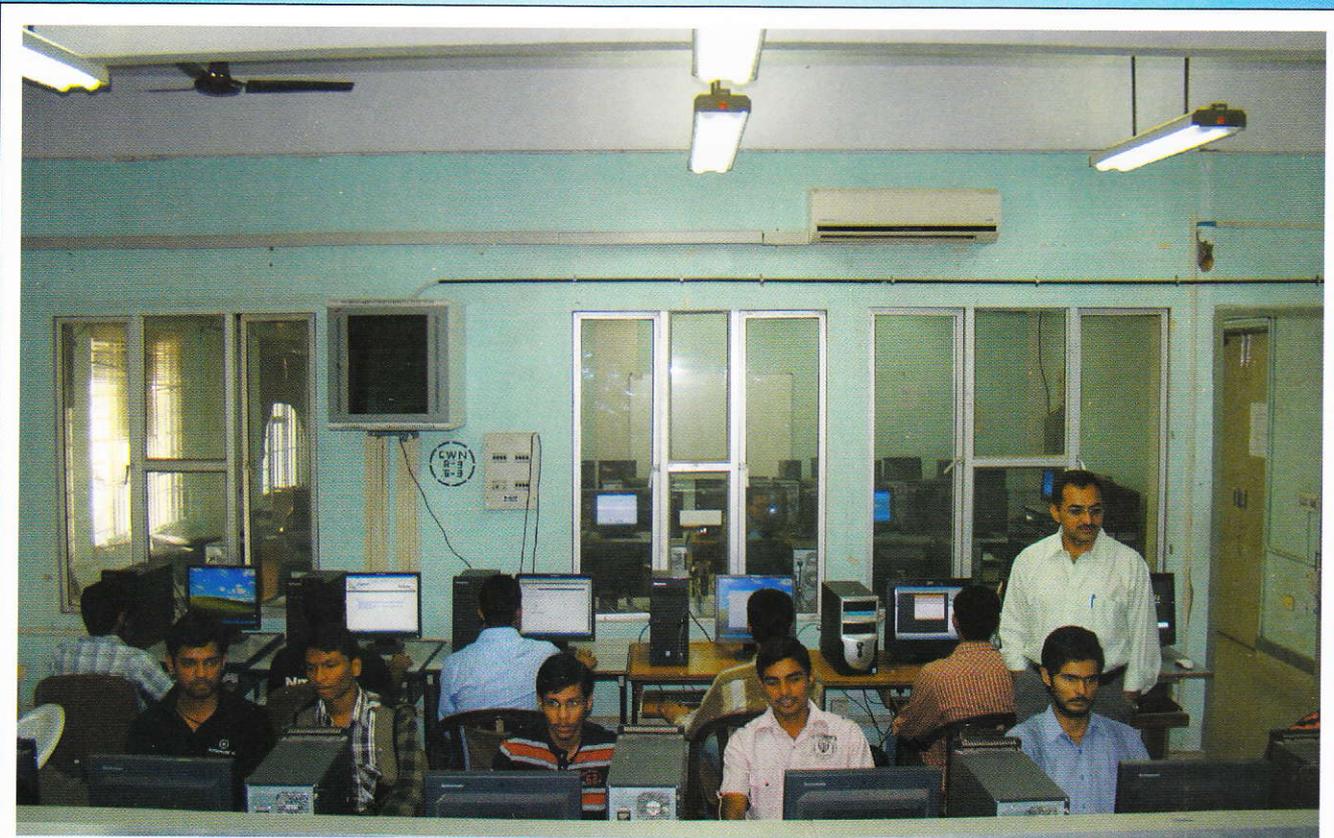
**Computing Cluster / Server Room**



**PHE Lab Civil Engineering Department**



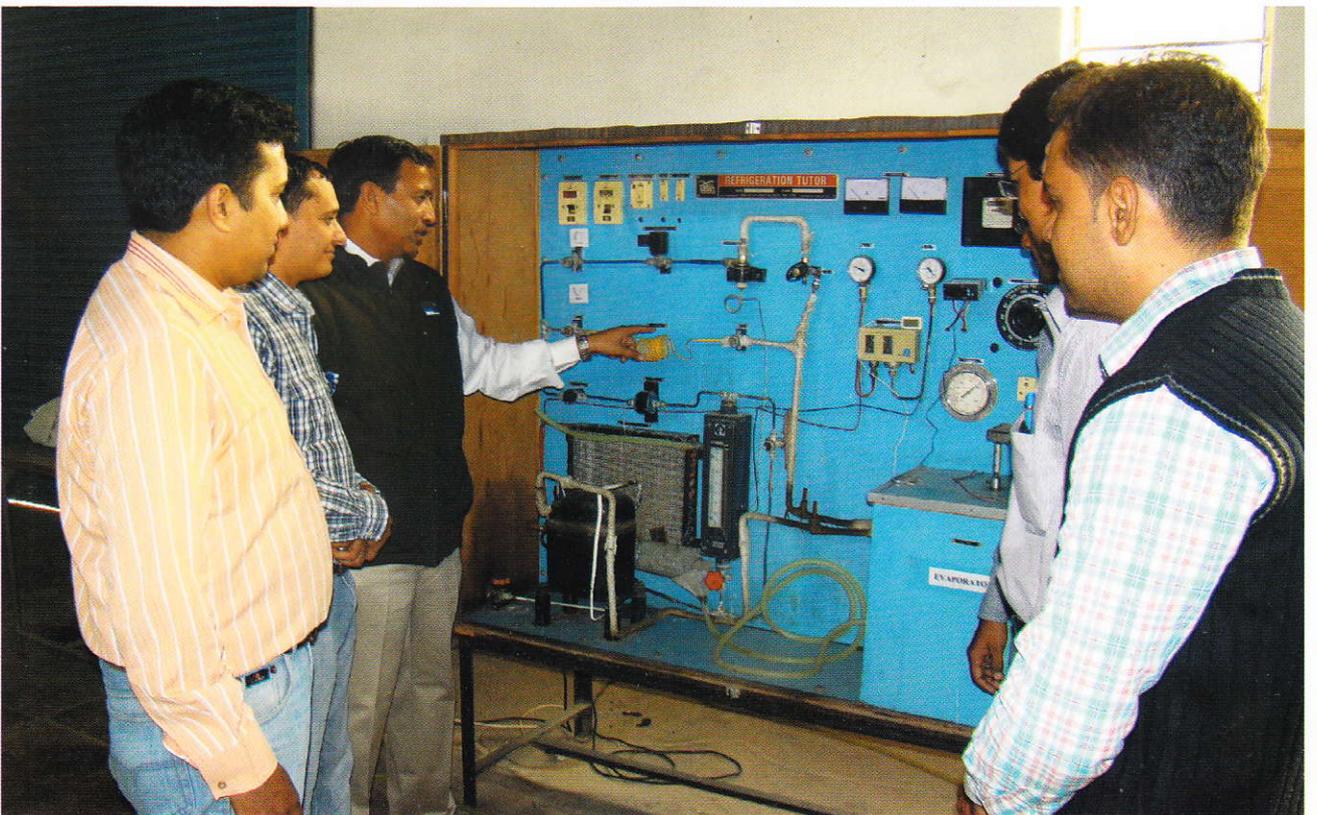
**VLSI Lab. ECE Department**



**Central Computer Centre**



**Equilibrium Flash distillation apparatus, Chemical Engg. Department**



**RAC Tutor, RAC Lab. Mechanical Engineering Department**

The following new facilities/alterations were created/(construction work started) during the year.

S. No.	Name of work	Stipulated date of commencement	Stipulated date of Completion	Work in Progress/Completed	Amount Paid/To be Paid
1.	Water proofing work at existing lecture halls L-1,2,3,4,7,8,9 & R1,3,4	19.07.2010	18.08.2010	Completed	Rs. 2,33,599/-
2.	Refurbishment of the existing huts near Library	10 days	2010-11	Completed	Rs.97,556/- Work Order Amount
3.	Renovation of Toilet blocks at Hostel No. 4 & 5	24.02.2011	23.02.12	Work in progress	Rs.14,22,179.08 Work Order Amount
4.	Fabrication & Supply of cloths Hanger for Men & Women Hostel	20.02.11	27.03.11	Completed	Rs.40,800/- Work Order Amount
5.	Providing , Laying & Jointing of pipe line from water tank to B-15 Qtr. Corner Point	17.03.11	16.04.11	Completed	Rs.2,03,300/- Work Order Amount
6.	New Tube well Construction at Children Park	30.03.11	29.05.11	Completed	Rs.3,55,210/- Work Order Amount
7.	Construction of Security Hut at Hostel NO. 7	29.03.11	28.05.11	Completed	Rs.88,522/- Work Order Amount
8.	Cleaning of Choked sewer line & man holes at the staff colony at B1,B16 , Temple lane , B-13 Corner via Guest House to Circle	15 days	2010-11	Completed	Rs. 49,550/-
9.	Construction of Men & Women Hostel			Work in progress	Rs. 52,42,27,019 /- Payment has been made to firm up to 31.03.11

List of major electrical work done during the year is as follows

S.NO.	Name of work	Work in progress/completed	Amount Paid/To be Paid
1.	Electrical work in P.G. Lab of computer Engg. Deptt.	Completed	Rs. 1,05,834 /- Gross Amount
2.	Rate Contract of Maintenance of Ceiling Fan's Desert Cooler & Water Cooler	Completed	Rs. 69,880 /- Gross Amount
3.	External lighting in New Men and Women Hostel	Work in progress	Rs. 13,22,823 /- Work Order Amount
4.	Supply ,erection ,Testing commissioning of Electrical Sub-Station	Work in progress	Rs.1,19,07,538 /- Work Order Amount
5.	Rate contract of Electrical maintenance of the Hostels	Work in progress	Rs. 2,79,610 /- Work Order Amount
6.	Three new polls of Volleyball Court	Completed	Rs.1,89,990 /- Gross Amount
7.	Renovation Badminton court	Work in progress	Rs. 17,16,489 /- Work Order Amount
8.	Lighting arrangement for existing Tennis Court	Work in progress	Rs. 3,57,900 /- Work Order Amount
9.	P & F Storage water heater in new hostel	Completed	Rs. 92,565 /- Gross Amount

## 9.8 GAMES AND SPORTS FACILITIES

The Institute Physical Education and Sports have created and developed a positive and healthy sports culture among Students, staffs and their family members. are enjoying one of the best facilities of the Institute. The vision is to produce fit engineers for the nation with improved quality like positive leadership among students, men managing, Cardio respiratory development, general motor ability, quick decision making ability, body sculpture and especially Fitness and Diet awareness. The Office is managing more than 3500 students and staff members and their wards. The existing games and Sports facilities are:

## INDOOR FACILITIES

S.No	Facilities	Number
1.	Badminton, Carrom and Chess	01 No.
2.	Billiard room	01 No.
3.	Gymnasium (Weight Training and Power lifting)	01 No.

## OUTDOOR FACILITIES

S.No	Facilities	Number
1.	Tennis Courts (Flood Light)	02 No.
2.	Volleyball Courts (Flood Light)	03 No.
3.	basketball Courts(Flood Light)	02 No.
4.	Play Field (Cricket Nets, Cricket Field, Football Field and Athletic Track and Field)	01 No.

### 9.9 OTHER FACILITIES LIKE, HOSTELS, MESSSES, STAFF QUARTERS, ADMINISTRATION ETC.

There are twelve hostels for the students of our Institute. The details of rooms are as follows:

Hostel No.	Single Seated Rooms	Double Seated Rooms	Triple Seated Rooms	Total Capacity
1	72	-	36	216
2	72	-	36	216
3	72	-	36	216
4	72	36	-	180
5	182	-	-	182
6	72	-	36	180
7	-	-	75	225
8	212	-	-	212
<b>New Boys Mega Hostel</b>	<b>125</b>	<b>-</b>	<b>-</b>	<b>125</b>

Girls Hostel	48	68	14	226
New Girls Mega Hostel	125	-	-	125
P.G. Hostel	16	-	-	16
<b>GRAND TOTAL</b>	<b>818</b>	<b>104</b>	<b>233</b>	<b>2194</b>

Note: In Hostels 1,2,3&7 four students have been adjusted in triple seated rooms and hostel 4 three students in double seated rooms.

#### Administrative set up for Hostels

S. No.	Admn. Warden	Mess Warden	Mess Assistants	Caretakers	Gardner	peon
1	15	-	7	3	2	1

#### Hostel/ Mess Management

A Mess is attached to each hostel except Hostel No. 1,8 & P.G. Each mess is managed by the Students Mess Committee consisting of Mess Secretary and Student representatives Mess Members. Entire salary of the mess servants is borne by the students themselves through MNIT Students Mess account.

There is one Common Room for each hostel, having the facility of a colour television, and one Table Tennis table. Major overhaul is under process for provisioning of the following:

- complete coverage of Wi-Fi to old hostels.      • Wired connectivity in the New hostels
- Renovation of Messes                                      • Automation of Messes

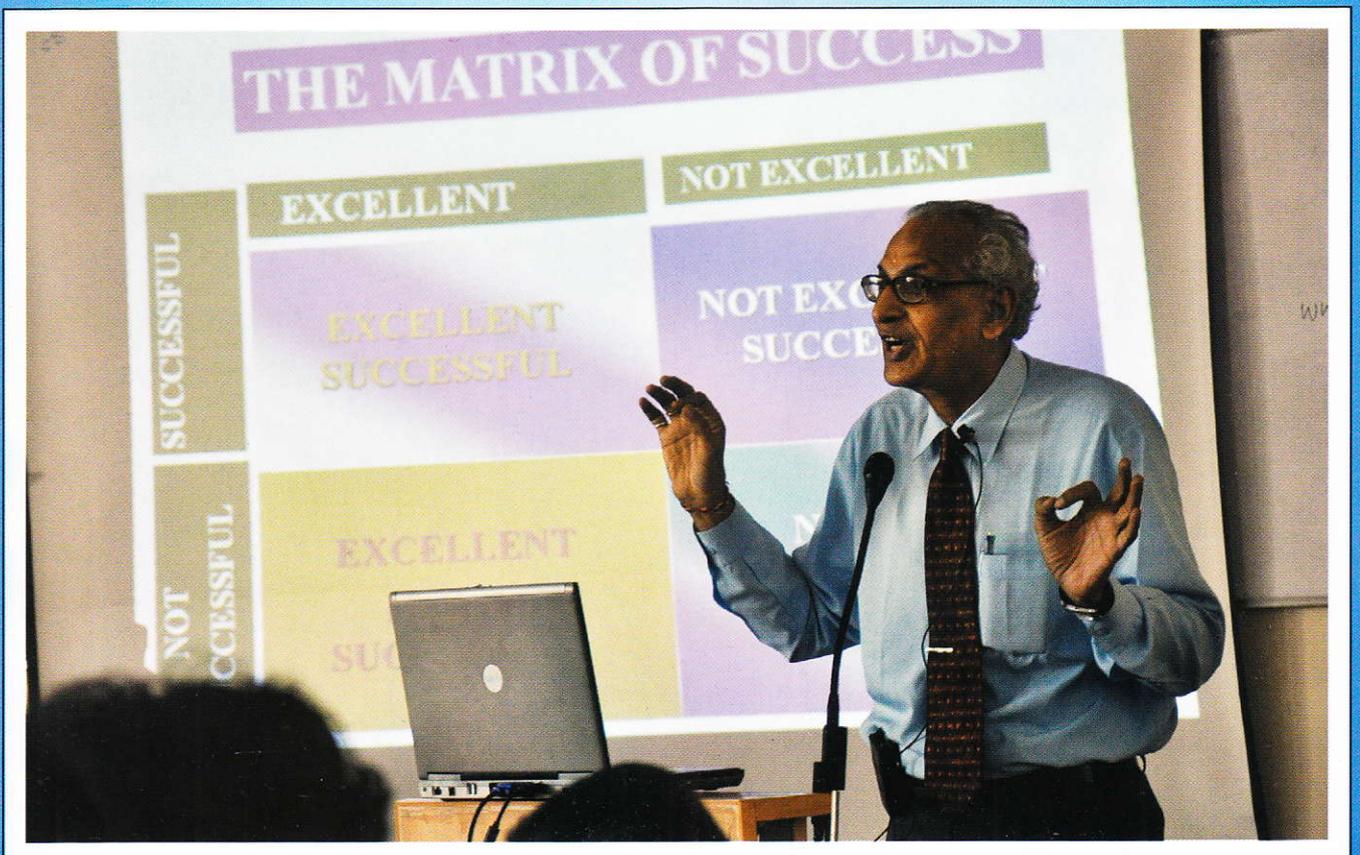
#### Staff Quarters

The details of Staff quarters is as follows

S. No.	Type	Nos.
1.	A	01
2.	B	17
3.	C	20
4.	D	78
5.	BH	8
6.	WWH	12
7.	F	66
8.	H	52



**MBA (Tech. Mgmt.) Collaboration with Greenwich University**



**Distinguished Speaker series (MNIT Alumni Association)**



**Faculty Interaction with Delegates from 18 Countries**



**Workshop on Advances in VLSI Design**

# 10 NOTABLE ACHIEVEMENTS

## 10.1 NOTABLE ACHIEVEMENTS

National Institute of Technology Jaipur is spread over an area of 125 hectares and offers a green campus and a vibrant environment for academic and co-curricular pursuits. The institute offers 9 undergraduate, 19 postgraduate & Ph.D. programmes in Engineering, Sciences & Humanities and has total student strength of 3889 and 151 faculty members. The institute has emerged as the second most preferred NIT in the AIEEE admissions in terms of ranks at which admissions opened and closed. A large number of DASA students have also chosen to come for studies here. The institute faculty and staff are continuously striving to achieve better academic environment. The total publications by faculty in Journals and conferences have increased by 20% as compared to previous year, and that in International Conferences has risen by almost 80%. Faculty members of the Institute went on secondment for a semester to AIT Bangkok. The institute has hosted ten conferences, symposia and workshop. Twenty eight foreign visits were carried out by faculty members to attend conferences/training courses and explore possibility of International collaborations. A total of ten new research projects were started including six with foreign collaboration. The institute has shown creditable performance in TEQIP Phase I and has been selected to be a part of Phase II of the project. The placement of students has shown steady improvement in terms of companies visiting the campus, job offers as well as increase in average pay package.

## 10.2 ACHIEVEMENTS, TOOK PLACE DURING THE YEAR

### 1. Placements

The placement scenario has improved with the average pay package showing steady increase. The details are shown in Table 1.1. Average pay package has risen by 13% and the average number of job offers per student has also increased by 36%.

Table 1.1 Comparison of Placement during last years

Particulars	2009-10	2010-11
Total companies that visited campus for recruitment	98	104
Total no. placed /Total no. of eligible students (% Placed)	360/360 (100%)	359/360 (99.7%)
Total job offers (some students got multiple job offers)	484	659
Maximum package (lakhs per annum)	11.7	9.88
Average package (lakhs per annum)	3.93	4.44

### 2. Research Publications

The research publications by faculty and students have shown a marked improvement as shown in Table 1.2. The total publications by faculty in Journals and conferences have increased by 20% as compared to previous year, and that in International Conferences has risen by almost 80%.

Table 1.2 Research Publication Details

<b>Publications</b>	<b>2009-10</b>	<b>2010-11</b>
International Journal	92	96
National Journal	23	32
International Conference	87	156
National conference	103	72

### 3. Research Projects

A total of ten new research projects and twenty one consultancy projects were started this year. Three research projects with UK universities, two under Indo-Russian collaboration and one under Indo-Japanese collaboration are underway at the institute.

<b>Particulars</b>	<b>2009-10 (in lakhs)</b>	<b>2010-11 (in lakhs)</b>
Amount of ongoing/new research projects and consultancy projects	308	366
No of Total Projects (research projects + consultancy projects)	67 (19+48)	42 (20+22)

### 4. Total degrees awarded

<b>Programme</b>	<b>2009-10</b>	<b>2010-11</b>
B. Tech	409	470
M. Tech /M. Sc/MBA	150	180
Ph. D.	5	21

### 5. Other Achievements

- Faculty members of the institute attended 7 short term training programs including one training program in UK.
- Distinguished speakers were invited to deliver lectures in the institute. Twelve such lectures were organized.
- Twenty eight distinguished visitors came to institute to deliver lectures, explore collaboration possibilities and interact with students.
- Thirty six visits were carried out by faculty members to other institutes as members of various selection committees, board of studies, board of governors etc. .
- Two conferences and eight seminar/symposia/workshop were hosted by the institute.
- Several faculty members are reviewers for reputed journals and conferences in their respective area of specialization.
- Five faculty members completed their Ph. D. during the year.

## **SPECIAL ACHIEVEMENTS DURING 2010-2011**

- A faculty member was deputed to AIT Bangkok for Faculty Secondment by MHRD New Delhi for the semester beginning August. 2010
- One of the faculty member was awarded CIMO fellowship, Govt. of Finland (with maximum available research grant) to carry out research work in Nanophotonics/Plasmonic Switches with optics groups at Nano fabrication facilities, Department of Physics and Mathematics, University of Eastern Finland, Joensuu, Finland for a six month period (January-June 2010).
- Two new hostels, one for boys (1000 capacity) and one for girls (450 capacity) have been completed and furnished.
- The students won general championship in BOSM student's festival at BITS Pilani.
- Two delegations comprising of members from eighteen developing and developed nations visited the institute for interaction with faculty and students.
- Faculty members/Research Scholars participated in 48 international and 28 national conferences and workshops.

## 11. ANNEXURES

### 11.1 BOARD OF GOVERNORS

S.NO.	CONSTITUENCY	NAME
1	Chairman	<b>Dr. Karan Singh</b> Hon'ble Chairman MNIT Jaipur
2	Member (Nominee of the State Government)	<b>Mr. Vipin Chandra Sharma, IAS</b> Principal Secretary Technical Education Government of Rajasthan Rajasthan Secretariat, C Scheme Jaipur.
3	Member (Nominee of the MHRD)	<b>Shri N.K. Sinha, IAS</b> Joint Secretary, Government of India Ministry of Human Resource Development Department of Higher Education Shastri Bhawan, New Delhi. – 110 001
4	Member (Director of Indian Institute of Technology in the Region or his nominee)	<b>Prof. Surendra Prasad</b> Director Indian Institute of Technology Delhi Hauz Khas, New Delhi – 110 016.
5	Member (Nominee of the AICTE)	<b>Prof. Ranjit Singh</b> Executive Secretary, ISTE New Delhi C/o D-42 Ayudh Vihar, Sector-13, Dwarka, New Delhi
6-7	Member (Two representatives representing large, medium and small scale industries to be nominated by the Central Government.)	<b>Dr. Abhay Jain</b> Director M/s. Ambika Petro Chemical (P) Ltd. Rajhans, 1st Floor No. 36, 7th Cross, Vasant Nagar, Bangalore- 52.
8	Member (Nominee of the UGC)	<b>Prof. Venugopal Reddy</b> Ex-Vice Chancellor C/o Shri L.N. Reddy, Plot No.34, Road No.11, Banjara Hill, Hyderabad
9-10	Member (One Professor and one Associate Professor of the Institute by rotation)	<b>Dr. S.C. Pathak</b> Professor of Mechanical Engineering, MNIT, Jaipur.

		<b>Dr. Jyoti Joshi</b> Associate Professor, Chemistry Department
11	Member (Head of another Technical Institution in the region or an eminent technologist nominated by the Central Government.)	<b>Prof. S.C. Saxena</b> Director Indian Institute of Technology Roorkee Roorkee (Uttaranchal)
12	Member (An Alumnus of the Institute from amongst alumni in Education / Industry to be nominated by the Board of Governors)	<b>Mr. A.K. Chhatwani</b> Sr. Executive Vice President M/s. Larsen & Toubro Ltd. Saki Vihar Road, Powai Mumbai – 400 072.
13	Financial Advisor (FA) Department of Secondary & Higher Education, Ministry of Human Resource Development, Govt. of India, Shastri Bhawan, New Delhi	<b>Shri S.K. Ray</b> (As a Special Invitee)
14	Ex-Officio	Director, MNIT, Jaipur.
15	<b>Mr. Sanjiv Anand</b> Managing Director Cedar Management Consulting Private Limited 703, Nirman Kendra, Off E. Moses Road, Mahalaxmi, Mumbai 400-011.	Special Invitee
16	<b>Mr. B.S. Meena</b> Secretary Heavy Industries 178, Udyog Bhawan, New Delhi- 110 011.	Special Invitee

## 11.2 FINANCE, BUILDING WORKS AND OTHER COMMITTEES

### FINANCE COMMITTEE

S.NO.	CONSTITUENCY	NAME
1	Chairman	<b>Dr. Karan Singh</b> Hon'ble Chairman MNIT Jaipur
2-3	Two persons nominated by the Central Government (i) Divisional Head (Dealing with the subject) (ii) Director (Finance)	<b>Shri N.K. Sinha, IAS</b> Joint Secretary, Government of India Ministry of Human Resource Development Department of Higher Education Shastri Bhawan, New Delhi. - 110 001

		<b>Mr. Naveen Soi</b> Director Finance Ministry of Human Resource Development (Department of Secondary & Hr. Education) Government of India, Shastri Bhawan New Delhi - 110 001.
4-5	Two persons nominated by the Board from amongst the members: (i) Nominee of the UGC (ii) MNIT Professor on BOG	<b>Shri A.K. Dogra</b> Joint Secretary University Grants Commission Bahadur Shah Zafar Marg New Delhi.  <b>Prof. S.C. Pathak</b> Prof. of Mechanical Engineering Department and Member BoG MNIT, Jaipur.
6	Director	<b>Prof. P.K. Saxena</b> Director, MNIT, Jaipur.
7	Registrar (Member - Secretary)	<b>Shri P.S. Dhaka</b> Registrar, MNIT, Jaipur.

### **BUILDING & WORKS COMMITTEE**

1.	<b>Prof. R. P. Dahiya</b> Director, MNIT, Jaipur	<b>Chairman</b>
2.	<b>Shri A.K. Chhatwani</b> Senior Vice President, Larsen & Toubro Limited Powai Campus, Saki Vihar Road, Mumbai – 400 072	<b>Member</b>
3.	<b>Shri Madan Mohan</b> Director, NITS, Department of Secondary & Higher Education Ministry of Human Resource Development, Government of India, New Delhi	<b>Member</b>
4.	<b>Shri S.C. Mahagaonkar</b> Director (Town Planning), Jaipur Development Authority Indira Circle, Jawahar Lal Nehru Marg, Jaipur – 302 004	<b>Member</b>
5.	<b>Prof. R. Nagar</b> Dean, Research & Development MNIT, Jaipur (Dean, Planning & Development is not a position in MNIT)	<b>Member</b>
6.	<b>Shri B. L. Meena</b> Superintending Engineer (Civil), CPWD, Jaipur Central Civil Circle Sector-10, Nirman Bhavan, Vidyadhar Nagar, Jaipur	<b>Member</b>

7.	<b>Shri A. K. Goyal</b> Superintending Engineer (Electrical), CPWD, Jaipur Central Electrical Circle, Sector-10, Nirman Bhavan, Vidyadhar Nagar, Jaipur	<b>Member</b>
8.	<b>Prof. Rajeev Shringi</b> Professor & Head, Architecture Department, MNIT, Jaipur	<b>Co-opted Member</b>
9.	<b>Dr. K.R. Niazi</b> Professor Electrical Engineering Department and Advisor Estate (Electrical), MNIT, Jaipur	<b>Special Invitee</b>
10.	<b>Dr. Mahesh Kumar Jat</b> Reader, Civil Engineering Department and officiating Executive Engineer	<b>Special Invitee</b>
11.	<b>Shri P. S. Dhaka</b> Registrar, MNIT, Jaipur	<b>Member Secretary</b>

## SENATE

Name	Designation and Address
Prof. R. P. Dahiya	Director, Chairman Senate, MNIT Jaipur 1-04-2010 to 27-10-11
Prof. P. K. Saxena	Director, Chairman Senate, MNIT Jaipur 27-10-11 to 31-03-11
Prof. Alok Ranjan	Dean, Administration and Professor Architecture Department, MNIT Jaipur
Prof. S. G. Modani	Dean, Academic Affairs & Professor, Electronics & Communication Engg. Deptt. MNIT Jaipur
Prof. Ravindra Nagar	Dean, R & D and Professor, Structural Engg. Department, MNIT Jaipur
Prof. M. S. Gaur	Dean, Students Affairs and Professor, Computer Engg. Department, MNIT Jaipur
Prof. R. A. Gupta	Dean, Faculty Affairs and Professor Electrical Engg. Department MNIT Jaipur
Prof. Gopal Agarwal	Professor, Mechanical Engg. Department MNIT Jaipur
Prof. S. C. Pathak	Professor, Mechanical Engg. Department MNIT Jaipur
Prof. S. L. Soni	Professor, Mechanical Engg. Department MNIT Jaipur
Prof. A. K. Rajvanshi	Professor, Mechanical Engg. Department, MNIT Jaipur
Prof. A. P. S. Rathore	Professor, Mechanical Engg. Department & Head Management Studies MNIT Jaipur
Prof. Dileep Kr. Jain	Professor and Head, Mechanical Engg. Department, MNIT Jaipur
Prof. M. P. Poonia	Professor, Mechanical Engg. Department, MNIT Jaipur
Prof. Rakesh Jain	Professor, Mechanical Engg. Department MNIT Jaipur

Prof. P. R. Soni	Professor and Head, Metallurgical & Materials Engg. Department, MNIT Jaipur
Prof. Ashok Sharma	Professor, Metallurgical & Materials Engg. Department, MNIT Jaipur
Prof. C. P. Sharma	Professor, Metallurgical & Materials Engg. Department MNIT Jaipur
Prof. A. K. Bhargava	Professor, Metallurgical & Materials Engg. Department MNIT Jaipur
Prof. Upendra Pandel	Professor, Metallurgical & Materials Engg. Department, MNIT Jaipur
Prof. A. B. Gupta	Professor, Civil Engg. Department, MNIT Jaipur
Prof. Gunwant Sharma	Professor, Civil Engg. Department, MNIT Jaipur
Prof. Rohit Goyal	Professor, Civil Engg. Department and Head, Training & Placement, MNIT Jaipur
Prof. Y. P. Mathur	Professor, Civil Engg. Department, MNIT Jaipur
Prof. B. L. Swami	Professor, Civil Engg. Department, MNIT Jaipur
Prof. Sudhir Kumar	Professor, Civil Engg. Department, MNIT Jaipur
Prof. A. K. Vyas	Professor & Head, Civil Engg. Department, MNIT Jaipur
Prof. Alok Gupta	Professor, Chemical Engg. Department MNIT Jaipur
Prof. S. P. Chaurasia	Professor, Chemical Engg. Department MNIT Jaipur
Dr. S. K. Jana	Associate Professor & Head, Chemical Engg. Department MNIT Jaipur
Prof. Rajeev Shringi	Professor, Architecture Department , MNIT Jaipur
Mrs. Kalpana Pandit	Head, Architecture Dept. , MNIT Jaipur
Prof. K. D. Gupta	Professor, Chemistry Department, MNIT Jaipur
Dr. Ragini Gupta	Head, Chemistry Department, MNIT Jaipur
Prof. S. K. Sharma	Professor, Physics Department, MNIT Jaipur
Prof. K. C. Swami	Professor, Physics Department, MNIT Jaipur
Dr. Kanupriya Sachdeva	Associate Professor & Head Physics Department, MNIT Jaipur
Mr. Mohd. Salim	Head, Electronics & Comm. Engg. Department, MNIT Jaipur
Prof. Mool Singh	Professor, Electrical Engg. Department, MNIT Jaipur
Prof. C. M. Arora	Professor, Electrical Engg. Department MNIT Jaipur
Prof. K. R. Niyazi	Professor and Head, Electrical Engg. Department MNIT Jaipur
Dr. Vijay Laxmi	Head, Computer Engg. Department, MNIT Jaipur

Prof. K. C. Jain	Professor and Head, Mathematics Department MNIT Jaipur
Prof. Rashmi Jain	Professor, Mathematics Department , MNIT Jaipur
Prof. Kantesh Gupta	Professor, Mathematics Department , MNIT Jaipur
Mrs. Nanny Tripathi	Head , Humanities Department , MNIT, Jaipur
Dr. M. K. Shrimali	Head, Structural Engg. Dept., MNIT Jaipur
Sh. P. S. Dhaka	Registrar & Secretary, MNIT Jaipur

### 11.3 RESEARCH PROJECTS AND CONSULTATION JOBS

#### DEPARTMENT OF CIVIL ENGINEERING

#### Continuing Sponsored Research Projects (Started earlier than 1st April 2010):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	NCP on Monitoring & Characterization of Respirable Particles in Urban Environment (Outdoor/Indoor) and their Association with Human Health	Prof. A. B. Gupta, Ms. Nivedita Kaul	AICTE	20	Report under preparation
2	Development of Integrated Public Transport System, Nationally Coordinated Project (NCP)	IIT Roorkee, MNIT Jaipur, NIT Allahabad. Dr. B.L.Swami, Pawan Kalla	AICTE	30	

#### New Research Projects (Started in the Year 2010-11):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Feasibility Study for Defluoridation of Drinking Water By Electrocoagulation Using Aluminium Electrodes	Dr. Sanjay Mathur Dr A. B. Gupta	UNICEF	5.46	Ongoing
2	Model of Porous Asphalt Pavement (DST Student Project)	Pawan Kalla	Department of Science and Technology	0.125	

**Consultancy/Testing Projects**

S. No.	Name of the Project	Team Members	Client	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Preparation of status reports for STPs, solid waste management facilities and common treatment facilities for biomedical waste in Rajasthan	Sanjay Mathur A. B. Gupta	RPCB, Jaipur	12.0	Ongoing

**DEPARTMENT OF COMPUTER ENGINEERING****Continuing Sponsored Research Projects (Started earlier than 1st April 2010):**

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	CogSys: Cognitive Analysis Tools for Digital Forensics	Dr. V.Laxmi, Prof.M.S.Gaur	Department of Science and Technology, New Delhi	10.67	Ongoing
2	UKIERI: Multiprocessor Electronic Design Automation	Prof.M.S.Gaur, Dr. V.Laxmi V.Singh (IISc.)	UKIERI, British Council	GBP33000	Ongoing
3	Information Security Education and Awareness	Prof.M.S.Gaur, Sh.D.Gopalani	Department of Information Technology, New Delhi	~35.00	Ongoing
4	PROSIM: Applicability of Probabilistic Signature in Detection of Metamorphic Malware	Prof. M.S.Gaur, Dr. V.Laxmi	Department of Information Technology, New Delhi	15.00	Ongoing

**New Research Projects (Started in the Year 2010-11):**

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Development of Techniques for Metamorphic Malware Detection and Analysis	Prof.M.S.Gaur, Dr. V.Laxmi	Department of Information Technology, New Delhi. DST-RFBR (Indo-Russian Joint Proposal)	8.00	Ongoing

2.	Synthesis of High Quality Testable Circuits and Diagnosis for Performance Oriented Faults	Dr. V.Singh, IISc Bangalore Prof. MS Gaur	Department of Information Technology, New Delhi. DST-RFBR (Indo-Russian Joint Proposal)	15.96	Ongoing
3.	Computer Aided Design of Hardware Acceleration for Tsunami Prediction System	Dr. Virendra Singh, IISc Bangalore Prof. MS Gaur	Department of Information Technology, New Delhi (Indo-Japan Joint Proposal)	75.00	Ongoing

#### New Consultancy Projects (Started in the year 2010-11):

S. No.	Name of the Project	Team Members	Client	Outlay	Completed /Ongoing
1.	Certification of DRU being part of BTS	Prof.M.S. Gaur Sh.Sanjeev Agarwal (ECE) Dr.Vijay Laxmi	Electoteq Electronics (India) Pvt. Ltd.	Rs 88,240	Completed
2.	Technical Opinion on Artificially Created Light Energy	Prof.MS Gaur Sh. Sanjeev Agarwal (ECE) Dr.Vijay Laxmi	Sistema Shyam Teleservices	Rs 99,270	Completed

#### DEPARTMENT OF ELECTRICAL ENGINEERING

#### New Research Projects (Started in the Year 2010-11):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)	Completed /Ongoing
1	Development of a National Transmission Network Tariff Framework	Dr. Rohit Bhakar	University Grants Commission	Rs. 5.238	Ongoing
2	Development of Network Charging Framework for Indian Power Distribution Utilities	Dr. Rohit Bhakar	Department of Science & Technology	In-principle approval	In-principle approval

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING****Continuing Sponsored Research Projects (Started earlier than 1st April 2010):**

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Tunable Photonic Crystals	Dr Vijay Janyani	DRDO	15.64	Ongoing
2.	UKIERI Major Award Research Project	Dr Vijay Janyani	British Council (UK Government)	~6 Lakhs (MNIT budget)	Ongoing

**DEPARTMENT OF MECHANICAL ENGINEERING****Continuing Sponsored Research Projects (Started earlier than 1st April 2010):**

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Design, Development, and Ergonomic Analysis of Blue Pottery Manufacturing System	Co-PI	DST, Govt. of India, New Delhi	Rs.21.64	On-going

**DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING****Continuing Sponsored Research Projects (Started earlier than 1st April 2010):**

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	R&D project on "Effect of Strain Induced Melt Activation (SIMA) Process on Microstructure and Properties of A356 Al Alloys"	Prof. Ashok Sharma	In collaboration with Dept. of Materials, IISc Bangalore under UGC Networking Resource Centre for Materials (NRCM) programme.	0.30/yr	Ongoing

**DEPARTMENT OF STRUCTURAL ENGINEERING****Continuing Sponsored Research Projects**

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)
1.	Shake Table Test Setup for Dynamic Testing (2003-2009)		MHRD Govt. of India	13.00

**Continuing Consultancy Projects (Started earlier than 1st April 2010):**

S. No.	Name of the Project	Team Members	Client	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Proof checking of Design and Drawings of RCC Structures including RCC Service reservoirs, High Rise Buildings, Bridges, Culverts, etc.	Dr.S.K. Tiwari, Dr. Sandeep Choudhary, Dr. Anurag Mishra, Dr. R. Nagar, Rajesh Gupta, Vinay Agrawal	Various Govt. Dept./ Public Sectors/ Private firms	4.00	Completed

**New Consultancy Projects (Started in the year 2010-11):**

S. No.	Name of the Project	Team Members	Client	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	Proof Checking of Affordable Housing Projects at Jaipur	Dr. M.K. Shrimali, Dr. S.D. Bharti	Various Govt. Dept./ Public Sectors/ Private firms	6.00	Ongoing
2.	Concrete Mix Designs	Dr. M.K. Shrimali, Dr. S.D. Bharti	Various Govt. Dept./ Public Sectors/ Private firms like PHED, PWD, JDA, N.M. Roof Designers etc.	3.00	Completed
3.	Rehabilitation	Dr. M.K. Shrimali, Dr. S.D. Bharti	Various Govt. Dept./ Public Sectors/ Private firms like SBBJ, Rajasthan Secretariate, PHED, Rajasthan High Court etc.	3.00	Completed
4.	Proof Checking of Affordable Housing Projects	Dr. S.D. Bharti, Dr. M.K. Shrimali	Various Govt. Dept./ Public Sectors/ Private firms	3.00	Ongoing
5.	Concrete Mix Designs	Dr. S.D. Bharti, Dr. M.K. Shrimali	Various Govt. Dept./ Public Sectors/ Private firms like PHED, PWD, CPWD, Vision India Ltd. Etc.	2.00	Completed

6.	Proof checking of RCC SRs, Bridges, Buildings,	Dr. S.D. Bharti, Dr. M.K. Shrimali	Various Govt. Dept./ Public Sectors/ Private firms like PHED, PWD, RSRDC etc.	3.00	Completed
7.	Proof checking of Reinforced earth wall	Dr. S.K. Tiwari	NHAI	0.80	Completed
8.	Proof checking of Box Culverter	Dr. R. Nagar, Dr. R.C. Gupta Dr. V. Agrawal	RSRDC	0.5	Completed
9.	Proof Checking of Affordable Housing Scheme	Dr. R. Nagar, Dr. R.C. Gupta Dr. V. Agrawal	Regency Build Home	1.00	Completed
10.	Proof Checking of LPG Bottling Plant, Ajmer	Dr. R. Nagar, Dr. R.C. Gupta Dr. V. Agrawal	Sarthak Contractors	0.2	Completed
11.	Consultancy Services for Indoor Polo Arena	Dr. R. Nagar, Dr. R.C. Gupta Dr. V. Agrawal	JDA, Jaipur	4.00	Completed
12.	Proof Checking of Bridge Km 248 and 226 NH-15	Dr. R. Nagar, Dr. R.C. Gupta Dr. V. Agrawal	PWD, Bikaner	1.25	Completed
13.	Proof Checking of Parking Structure at Ramniwas Bagh, Jaipur	Dr. R. Nagar, Dr. R.C. Gupta Dr. V. Agrawal	JDA, Jaipur	2.00	Completed
14.	Proof Checking of Footbridge at Kota Railway Station	Dr. R. Nagar, Dr. R.C. Gupta Dr. V. Agrawal	R. K. & Co.	0.75	Completed
15.	Proof checking of RCC SRs, Bridges, Buildings,	Dr. R.C. Gupta Dr. R. Nagar Sh. Rajesh Gupta	Various Govt. Dept./ Public Sectors/ Private firms	1.50	Completed
16.	Proof checking of RCC SRs, Bridges, Buildings,	Dr. Vinay Agrawal Dr. R. Nagar Sh. Rajesh Gupta	Various Govt. Dept./ Public Sectors/ Private firms	5.00	Completed

17.	Proof checking of RCC SRs, Bridges, Buildings,	Dr. S. Chaudhary Sh. Rajesh Gupta Dr. Vinay Agrawal	Various Govt. Dept./ Public Sectors/ Private firms	2.00	Completed
18.	Proof checking of RCC SRs, Bridges, Buildings,	Sh. Rajesh Gupta, Dr. S. Chaudhary Dr. Vinay Agrawal	Various Govt. Dept./ Public Sectors/ Private firms	1.00	Completed

#### Testing (Carried out in the Year 2010-11):

S. No.	Name of the Lab	Total Amount (in Lacs of Rs.)
1.	Concrete Lab.	7.00
2.	Steel Lab.	3.00
3.	Geotech Lab.	6.00
4.	Test Hall	2.50

#### DEPARTMENT OF CHEMISTRY

##### New Research Projects Started

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)
1.	Development of novel environment-friendly, reusable and air stable Pd(0)- and Cu(I)-catalytic systems for the C-C, C-N, and C-O Ullmann-type cross-coupling reactions” DST WOS-A project submitted by Dr. Arpi Majumdar under my Supervision	Dr. Arpi Majumdar	DST	20
2.	“Synthesis of Heterobioconjugates as possible Drug Candidates Using Click Chemistry Approach” funded by Department of Science and Technology, Rajasthan (State DST)	Dr. Ragini Gupta	State DST	14

#### DEPARTMENT OF PHYSICS

##### New Research Projects (Started in the Year 2010-11):

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)	Completed /Ongoing
1.	SnO <sub>2</sub> Based Microwave Sintered Combustible Gas Sensors: Study of Grain Size Effects in Enhancing the Gas Sensing Behaviour	Prof. S. K. Sharma	DAE-BRNS	24.23	Ongoing

## 11.4 FACULTY POSITIONS

### (a) Academic Staff

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2011)
1	Director	1	-
2	Professor	34	41
3	Associate Professor/Reader	67	70
4	Assistant Professor	134	40

## 11.5 ADMINISTRATIVE & OTHER STAFF

### (a) Administrative Officer and other staff

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2011)
1	Director	1	-
2	Registrar	1	1
3	Dy. Registrar (Adm.)	2	-
4	Dy. Registrar (Accounts)	1	1 (on Deputation)
5	PS to Director	1	-
6	Executive Engineer	1	1 (on Deputation)
7	Estate Engineer	1	1
8	Sports Officer	1	1
9	Medical Officer	1	-
10	Asstt. Registrar	6	2 (1 Adhoc)
11	Section Officer	1	-
12	Internal Auditor (AAO)/AAO	2	2 (1 Adhoc)
13	Asstt. Stores Officer	1	-
14	Asstt. Sports Officer	1	-
15	Liasion Officer	1	-
16	Scientific Officer	1	-
17	Student Activity Officer	1	-
18	Security Officer	1	-
19	Assistant Engineer (Electrical)	1	1 On Contract
20	Assistant Engineer (Civil)	1	-

**(b) Technical Officer & Other Staff**

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2011)
21	System Analyst	1	1
22	Librarian	1	1 (Adhoc)
23	Foreman (Workshop)	1	-
24	Tech. Officer (Programmer) (Computer)	3	1
25	Asstt. Librarian	2	1 (Adhoc)
26	Asstt. Foreman	1	-

**(c) Ministerial Staff**

S.No.	Post	Sanctioned Strength	In position (On 31.3.2011)
27	PA	1	1
28	Accountant	3	2
29	Office Asstt.	3	2
30	Stenographer	3	1
31	Jr. Accountant	3	-
32	UDC	15	12
33	LDC	22	18
34	Caretaker (Hostel)	5	1
35	Storekeeper (Hostel)	2	2
36	Steno-typist	1	1

**(d) Technical & Other Staff**

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2011)
37	Tech. Asstt.	14	13
38	Jr. Estate Engineer/ Jr. Engineer	2+1	2 (Contract)
39	Mess Supervisor	1	-
40	Sr. Technician		5
41	Photo Lab Asstt. (Sr. Techn cian)	22	1

42	Mess Asstt.	9	6
43	Lab. Asstt.	4	1
44	Cataloguer cum Classifier	2	-
45	Compounder Gr.II	2	-
46	Technician	30	16
47	Data Entry Operator (Technician)		2
48	Electrician Gr.I	1	-
49	Driver	3	1
50	Issue Asstt.	1	2 (1 against Cat-cum-Classifier)
51	Asstt. PTI	2	-

**(e) Other Technical Subordinate & Supporting Staff**

S.No.	Post	Sanctioned Strength	In position (On 13.3.2011)
52	Carpenter	1	1 (Adhoc)
53	Electrician Gr.II	3	3
54	Painter cum Glass Cutter	1	1 (Adhoc)
55	Plumber Gr. II	1	2
56	Pump Operator Gr. II	4	8
57	Lab. Attdt. / Sr. Cleaner	16	9
58	Book Lifter / Library Attdt.	3	2+2 (Adhoc)
59	Jamadar	1	1
60	Peons	34	24
61	Sweeper		10
62	Helper Gr. II	7	7
63	Gardener / Beldar	26*	26
64	Janitor	2*	1+1 (Adhoc)

\*Supernumerary

**(f) Part Time Posts**

S.No.	Post	Sanctioned Strength	In position (On 31.3.2011)
65	Legal Advisor	1	1
66	Allopathic Doctor	2	2
67	Lady Doctor	1	1
68	Homeopath Doctor	1	1
69	Ayurvedic Doctor	1	1

## WORKING HOURS

The Institute during the year under report observed the following working hours:

1	Academic Departments	8.00 a.m. to 5.00 p.m. Monday to Friday
2	For employees working in the Administrative Block	-do-
3	Hostels	Round the clock (shift -wise)
4	Estate Department	8.00 a.m. to 5.00 p.m. on all the days of the week and on Sunday, a few members of the staff are called on duty to attend emergency services.
5	Library	Shift wise

## 11.6 STAFF MEMBERS SPONSORED FOR TRAINING AND LEARNING

### DEPARTMENT OF ARCHITECTURE

#### Participation of Faculty in Seminar/Symposia/Workshop

S. No.	Name of the Faculty	Title of Event	Place	Date(s)
1.	Mrs. Meenu Varshney	Workshop on Planning Tools on Urban Heritage Conservation for Development Jointly Organised by Palace, JDA, Raymond Lemaine International Centre for Conservation, Levven	Diwan-e-Aam, Amber, Jaipur	Jan 27-Feb 1, 2011
2.	Mr. Ram Niwas Sharma	IIID Annual Convention	Birla Auditorium, Statue Circle, Jaipur	Feb 4-6, 2011

#### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)
1.	Tim Gore & Corine Delage	Director, Centre of Indian Business and Director of Learning & Quality	The University of Greenwich	To Discuss the possibility of Running Joint Programme/Courses	July 27, 2010
2.	Sh. Yogesh Gupta	Sr. Officer	Ultra-Tech Cement Ltd.	To brief students about the Design Competition	Aug 2010

3.	Ar. Paul Bradey & Vijyendra Rathore	Architect & Business Development Director	4-M Group London	Jury to Students Competition on Sustainable Architecture	Dec 2, 2010
4.	Sh. Amit Sharma	Guest Faculty	Rajasthan Art College	Workshop on Clay Modelling	March 11-12, 2011

### DEPARTMENT OF CHEMICAL ENGINEERING

#### Keynote addresses by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme
1.	Mr. Sushant Upadhyaya	Faculty Development Programme on "Mould & Product Design"	CIPET Jaipur	20.11.2010	Steel Materials & Heat Treatment	To enhance the technical knowledge of the faculty members by exposing them to the latest technological developments in the area of Mould & Product Design.
2.	Mr. Manish Vashishtha	International conference on Emerging Trends in Engineering and Technology	Jaipur	November 26-27, 2010	An Overview of Potential Benefits and Hazards of Nanotechnology	Chemical Engineering

#### Participation of Faculty in International Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Country	Date(s)
1.	Dr. Suja George	International Conference On Environmental Engineering And Applications, ICEEA 2010, Singapore.	Hotel Royal, Singapore	Singapore	September 10-12, 2010
2.	Dr. Kailash Singh	World Congress on Engineering and Computer Science	San Francisco	USA	October 20-22, 2010

3.	Ar. Paul Bradey & Vijyendra Rathore	Architect & Business Development Director	4-M Group London	Jury to Students Competition on Sustainable Architecture	Dec 2, 2010
4.	Sh. Amit Sharma	Guest Faculty	Rajasthan Art College	Workshop on Clay Modelling	March 11- 12, 2011

### DEPARTMENT OF CHEMICAL ENGINEERING

#### Keynote addresses by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme
1.	Mr. Sushant Upadhyaya	Faculty Development Programme on "Mould & Product Design"	CIPET Jaipur	20.11.2010	Steel Materials & Heat Treatment	To enhance the technical knowledge of the faculty members by exposing them to the latest technological developments in the area of Mould & Product Design.
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1.	Dr. Suja George	International Conference On Environmental Engineering And Applications, ICEEA 2010, Singapore.	Hotel Royal, Singapore	Singapore	September 10-12, 2010
2.	Dr. Kailash Singh	World Congress on Engineering and Computer Science	San Francisco	USA	October 20-22, 2010

3.	Mr. Manish Vashishtha	Pure and Applied Chemistry International Conference (PACCON 2011)	Bangkok	Thailand,	January 5-7, 2011
4.	Dr. Suja George	4 <sup>th</sup> International Conference on Emerging Trends in Engineering and Technology”, TechnoBytes10, Jaipur.	Biyani Girls College Jaipur	India	November 26-27, 2010
5.	Dr. R. K. Vyas	12 <sup>th</sup> International Conference of International Academy of Physical Sciences (CONIAPS-XII)	University of Rajasthan, Jaipur	India	December 22-24, 2010
6.	Dr. Madhu Agarwal	International conference on Renewable Energy	Jaipur	India	January 17-21 2011

#### Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)
1.	Mr. R. K. Dohare	Seminar on Experiential Education - An approach for enhancing engineering and science education by national Instruments	Jaipur	June 09, 2010
2.	Dr. R. K. Vyas	Workshop on Vision Development for Centre for Energy and Environment at MNIT	Design Centre, MNIT Jaipur	July 31, 2010
3.	Mr. Sushant Upadhyaya	National Seminar on “Challenges Teacher Education of Today and Tomorrow” sponsored by NCTE.	Jalesar(Etah), U.P.	August 21, 2010
4.	Mr. R. K. Dohare	National Conference on “Nano Technology” Application and implications	Alwar	Sept. 25-26, 2010
5.	Dr. R. K. Vyas	2 <sup>nd</sup> Conference on Advances in Chemical Engineering (AChemE 2011)	Thapar University, Patiala	February 27-28, 2011

### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date
1.	Dr. M. Jha	Professor of Chemical Engg., NIT Jalandhar	Overview of Petroleum Industry	April 05, 2010

### Visit of Faculty Members to other Institutions

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit
1.	Dr. R. K. Vyas	Banasthali University, P.O. Banasthali Vidyapeeth - 304022, Dist Tonk, Rajasthan	To attend the meeting of Board of Studies of B. Tech. (Chemical Engg.) as External Member	September 29, 2010
2.	Mr. R. K. Dohare	NPCL, Rawatbhata (Rajasthan)	Industrial Tour	Oct. 28-30, 2010
3.	Mr. R. K. Dohare	Thermal Power Plant, Kota	Industrial Tour	Oct. 28-30, 2010
4.	Mr. R. K. Dohare	J.K. Cement, Chittorgarh	Industrial Tour	Oct. 28-30, 2010
5.	Dr. R. K. Vyas	Indira Gandhi Centre for Human Ecology Environment & Population Studies, University of Rajasthan, Jaipur	To Deliver Expert Lecture in Refresher Course for College and University Teachers	November 11, 2010
6.	Dr. R. K. Vyas	University of Rajasthan, Jaipur Arya Institute of Engg. & Technology, Kukas, Jaipur	To attend International Conference (CONIAPS-XII)	December 22 & 24, 2010
7.	Dr. R. K. Vyas	Thapar University, Patiala	To attend Conference on Advances in Chemical Engineering (AChemE 2011)	February 27-28, 2011
8.	Dr. R. K. Vyas	Indian Institute of Technology Roorkee, Roorkee	External Expert Member for JRF Assessment for JRF to SRF conversion	March 01, 2011

## Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)
1.	Dr. M. Mohan Mathur and Dr. Jin Jiang	Faculty Member	University of Ontario, London, Canada	For seeking Collaboration between University of Ontario, Canada and MNIT Jaipur	February 25, 2011
2.	Mr. Sandeep Nyati	MREC Alumnus		To assist in Collaboration	February 25, 2011

## Seminar/Conference/Workshop organized:

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)
1	Dr. R. K. Vyas	Co-ordinator	Special talk and prize distribution function on Hindi Week	MNIT, Jaipur	Sept. 17, 2010

## DEPARTMENT OF CIVIL ENGINEERING

### Keynote addresses by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme
1.	A.B. Gupta	All India seminar on "Water awareness and management for rural area",	IE(I), Jaipur	April 28-29, 2010	Problem of fluorides and nitrates in Rajasthan- time for rethinking?	Environmental Engineering
2.	A.B. Gupta	2010 ITT China & India Forum on Accelerated Growth - Strategic Collaboration - Talent Development,	Hotel Ummed Palace, Jodhpur	April 8, 2010	"Biological Processes for wastewater treatment- The changing scenario"	Environmental Engineering
3	Pawan Kalla	Concrete Sustainability through Innovative Materials and Techniques	Jaipur	Jan 11, 2011		

4	Pawan Kalla	UKIERI Concrete Congress Concrete for 21st Century Construction	IIT Delhi	March 8-10, 2011		
5	Rohit Goyal	Training Course on "Capacity Building of State PHED Engineers on Sustainability of Drinking Water Sources"	HCM Rajasthan Institute of Public Administration, Jaipur	Sept 20-24, 2010	a. Achieving Groundwater Sustainability b. Geographical Information System	
6	Rohit Goyal	seminar on "Rainwater Harvesting" organized by Confederation of Indian Industry	Hotel Best Western Om Tower, MI Road, Jaipur	June 17, 2010	"Rainwater Harvesting: Case Study of RWH Structure at MNIT, Jaipur"	
7	Rohit Goyal	Training course on "Application of Remote Sensing & GIS in Integrated Ground Water Resource Management" organized by RRSSC, Dept. of Space	Jodhpur	March 29-April 4, 2010	"Groundwater Flow Modelling and the Role of GIS"	
8	Sanjay Mathur	Training Course on Capacity Building of Engineers of	HCM Rajasthan Institute of Public Administration, Jaipur	Feb, 2011	Water Efficiency in Building Sector	
9	Sanjay Mathur	Refresher Course for IFS officers	Forerst training Institue , Jaipur	Nov. 23, 2010	Pragmatic Use of Water	

#### Participation of Faculty in Seminar/Symposia/Workshop

S. No.	Name of the Faculty	Title of Event	Place	Country	Date(s)
1.	A.B. Gupta	Indo-French Seminar on "Indoor Air Quality: Monitoring, Prediction, Exposure Assessment and Cleaning	Nantes	France	May 31-June 3, 2010

2.	A.B. Gupta	Two day workshop on "Transport, Land Use Strategies and Technology Interventions for Urban Air Quality Management	IIT Delhi	India (Indo-UK workshop)	Feb 9-10, 2011
3.	A.B. Gupta	2010 ITT China & India Forum on Accelerated Growth - Strategic Collaboration - Talent Development,	Hotel Ummed Palace, Jodhpur	India (Indo-China-US meet)	April 8, 2010
4.	A.B. Gupta	The 1st Environment Asia International Conference	Hotel Rama Garden, Bangkok	THAILAND	March 22- 25, 2011
5.	A.B. Gupta	International Conference on Environmental Science and Development – ICESD 2011	Mumbai	India	January 7-9, 2011
6.	A.B. Gupta	Seminar on "Water awareness and management for rural area",	IE(I), Jaipur	India	April 28-29, 2010
7.	A.B. Gupta	Two day workshop on "Sustainable development and environmental change"	OTS, Jaipur		June 10-100, 2010
8.	A.B. Gupta	14 <sup>th</sup> National Symposium on Hydrology, Management of Water Resources under Drought Situation. MWRDS-2010	MNIT Jaipur		December 21-22, 2010
9.	A.B. Gupta	National Conference on Biological wastewater treatment towards green environment BWTGE 2011.	NIT Calicut, India		January 28-29, 2011
10.	A.B. Gupta	All India seminar on Innovative construction technology and materials	IE(I), Alwar		February 26, 2011
11.	A K Vyas	International Disaster and Risk Conference IDRC 2010	Davos, Switzerland		May 30-June 3, 2010
12.	Pawan Kalla	Concrete Technology	University of Dundee, U.K		June 1-July 10, 2010
13.	Rohit Goyal	30 <sup>th</sup> EARSeL Symposium "Remote Sensing for Science, Education and Natural and Cultural Heritage"	UNESCO Headquarters, Paris	France	May 31-June3, 2010

14.	Rohit Goyal	Workshop on "Science based Policy Options for Climate Change Adaption in Rajasthan", organized by Rajasthan State Pollution Control Board and Destche Gesellschaft für Internationale Zusammenarbeit (GIZ), Germany	Rambagh Convention Centre, Jaipur		Feb 24-25, 2011
15.	Rohit Goyal	National Seminar on Water Auditing	University of Rajasthan, Jaipur		May 18-20, 2010

#### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date
1.	Dr. A.N.Arora	Prof. Civil Engineering Department, KITE Sitapura, Jaipur.	Highway Material Specifications.	Jan 7, 2011

#### Visit of Faculty Members to other Institutions

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit
1.	A. B. Gupta	SIIT Bangkok	Collaboration	March 21, 2011
2	Pawan Kalla	University of Dundee, U.K	To attend course on Concrete Technology	June 1-July 10, 2010
3	Pawan Kalla	IIT Delhi	To attend UKIERI Concrete Congress Concrete for 21st Century Construction	March 8 – 10, 2011
4	Pawan Kalla	CSMRS, New Delhi	To attend 2 <sup>nd</sup> Annual R&D Review Session of Indian National Committee on Geotechnical Engineering and Construction Materials (INCGECM).	March 25, 2011

#### Seminar/Conference/Workshop organized:

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)
1	Rohit Goyal	Professor	14 <sup>th</sup> National Symposium on Hydrology with focal theme on Management of Water Resources under Drought Situation, MWRDS 2010, Jointly conducted by MNIT Jaipur and National Institute of Hydrology Roorkee	MNIT Jaipur	Dec. 21-22, 2010

**DEPARTMENT OF COMPUTER ENGINEERING****Participation of Faculty in Seminar/Symposia/Workshop**

S. No.	Name of the Faculty	Title of Event	Place	Country	Date(s)
1.	Prof. MS Gaur	Network and Parallel Computing (NPC'10)	Zheng Zhou	China	Sept. 13-15, 2010
2.	Prof. MS Gaur	6th International Symposium on Electronic Design, Test and Applications (DELTA 2011)	Queenstown	New Zealand	Jan. 17 – 19, 2011
3.	Prof. MS Gaur	The Nordic Microelectronics event 28th Norchip Conferenc	Tampere	Finland	Nov. 15-16, 2010
4.	Prof. MS Gaur	2nd IEEE International Workshop on Reliability Aware System Design and Test (RASDAT)	Chennai	India	Jan. 6-7, 2011
5.	Dr. V. Laxmi	3rd international conference on Security of information and networks, SIN '10	Taganrog	Russia	Sept. 7-11, 2010
6.	Dr. V. Laxmi	4th IFIP International Conference on New Technologies, Mobility and Security (NTMS), 2011.	Paris	France	Feb. 7-10, 2011
7.	Mushtaq Ahmed	Defect and Fault Tolerant Systems (DFTS)	Kyoto	Japan	Oct. 6-8, 2010
8.	Mushtaq Ahmed	VLSI Design and Test (VDAT)	Himachal Pradesh	India	July 7-9, 2010
9.	Mushtaq Ahmed	Intl. Conf. on Embedded Systems (ICES 2010)	Coimbatore	India	July 14-16, 2010
10.	Dinesh Gopalani	Intl. Conf. on Advanced Computing and Communicarion Technologies (ICACCT 2010)	Panipat, Haryana	India	Oct. 30, 2010
11.	Mrs. Namita Mittal	ACM Women in Computing 2010	Coimbatore	India	Sept. 16-17, 2010
12.	Mrs. Namita Mittal	Intl. Conf. on Web Intelligence 2010	Toronto	Canada	Aug 31-Sept. 3, 2010

### Participation of Faculty in Short Term Courses

S. No.	Name of the Faculty	Name of the Course	Place	Date(s)
1.	Sh. Yogesh Meena	ISTE Workshop for Coordinators for Data Base Management Systems	IIT Bombay	Oct. 19-23, 2010

### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date
1.	Prof. Bhaskaran Raman	CSE, IIT, Bombay	Linux and Open Source Computing	May 13-15, 2010
2.	Dr. Dharmendra Singh	ECS, IIT, Roorkee	Image Processing	May 8, 2010
3.	Dr. Mark Zwolinski	University of Southampton, UK	Variability in EDA	September 2010
4.	Dr. Virendra Singh	IISc., Bangalore	Hardware Verification	November 4, 2010

### Visit of Faculty Members to other Institutions

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit
1.	Prof. M.S. Gaur	University of Southampton, UK	UKIERI Research Interaction	June, 2010
2.	Prof. M.S. Gaur	IIT Madras, Chennai	2nd IEEE International Workshop on Reliability Aware System Design and Test	Jan. 6-7, 2011
3.	Dr. V. Laxmi	University of Southampton, UK	UKIERI Research Interaction	June, 2010
4.	Dr. V. Laxmi	CDAC Hyderabad	Information Security Interaction	August 23-25, 2010
5.	Dr. Vijay Laxmi	CARE, IIT Delhi	Research Interaction	March 18, 2010
6.	Dr. V. Laxmi	IIT Delhi	UKIERI Research Interaction	Sept. 14, 2010
7.	Dr. V. Laxmi	IIT Rajasthan	UKIERI Research Interaction	Sept. 20-21, 2010
8.	Prof. M.S. Gaur	NITK Surathkal	DASA Technical Committee	March 7, 2011

## Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)
1.	Prof. Bhaskaran Raman	Associate Professor	CSE, IIT, Bombay	Linux and Open Source Computing	May 13-15, 2010
2.	Dr. Dharmendra Singh	Associate Professor,	ECS, IIT, Roorki	Image Processing	May 8, 2010
3.	Dr. Mark Zwolinski	Professor	University of Southampton, UK	Variability in EDA	September 2010
4	Dr. Virendra Singh	Senior Scientific Officer	IISc., Bangalore	Hardware Verification	November 4, 2010
5	Dr. Virendra Singh Anzhela Matrosova	Senior Scientific Officer Professor	IISc Bangalore Tomsk University, Russia	Research Interaction to initiate proposal for DST-RFBR	November 2-6, 2010

## DEPARTMENT OF ELECTRICAL ENGINEERING

### Keynote addresses by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme
1.	Dr. Rajesh Kumar	Technical Symposium Smart Electricity World (ASIA 2010),	Singapore	April 2010	Recent advances in Smart Grid Optimization	

### Participation of Faculty in International Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Country	Date(s)
1.	Dr. Harpal Tiwari	International Multiconference of Engineers and Scientists 2011	Royal Garden Hotel	HongKong	March 16-18, 2011

2.	Dr. Rohit Bhakar	International Conference on Power Markets.	Organized by Power Exchange India Limited, New Delhi	India	March 8, 2011
3.	Dr. Rohit Bhakar	Indo-Canadian Workshop on Urban Electric System Integration with PHEV Charging Stations and Solar farms, Sponsored by ISTP Canada and GITA India, Chennai	Organised by Ryerson University Canada and Anna University Chennai	India	January 6-7, 2011,
4.	Dr. Rohit Bhakar	IEEE Power Engineering Society General Meeting, ..	Minneapolis, USA	USA	July 25-29, 2010
5.	Dr. K.R.Niazi	IEEE Power Engineering Society General Meeting, ..	Minneapolis, USA	USA	July 25-29, 2010

#### Participation of Faculty in International Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)
1.	Dr. Rohit Bhakar	Workshop on "Emerging Challenges in Power System Operation and Electricity Market in India"	Central Board of Irrigation and Power, New Delhi,	March 24-25, 2011
2.	Dr. Rohit Bhakar	National Conference on Power and Energy Systemat	Rajasthan Technical University Kota.	April 23-24, 2011

#### Participation of Faculty in Short Term Courses

S. No.	Name of the Faculty	Name of the Course	Place	Date(s)
1.	Prerna Jain	Intelligent system Application to the Smart Electric Grid Solutions	IIT Kanpur	November 15-19,2010

#### Visit of Faculty Members to other Institutions

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit
1.	Dr. Rajesh Kumar	National University of Singapore	Post Doctorate Research Fellow (A)	August 2009 to March 2011

2.	Prof. R.A. Gupta	AIET,Jaipur	Guest of Honour/Talk, ISTE National Seminar	Nov. 15, 2011
3.	Prof. R.A. Gupta	NSIT,Delhi	For Chair Technical Session in IEEE International Conference	Jan28 -30, 2011
4.	Prof. R.A. Gupta	Marwar Engineering College & Research Centre, Jodhpur	Talk in IE National Conference	Mar. 4-5, 2011

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### Keynote addresses by the Faculty in Seminar/Symposia/Workshop /Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme
1.	Ghanshyam Singh	Tropical meeting on Photonics	Nano fabrication facilities, UEF, Joensuu, Finland	May 18, 2010	Photonic switches: Architectures and Applications and Plasmonic switches	Research on nanophotonics
2.	Ghanshyam Singh	“International conference on emerging trends in engineering and technologies”	Biyani Girls College, Jaipur	Nov. 27, 2010	Photonic switching technologies: A comparison of MZI, MMI and Digital optical switching elements	Optical Technologies
3.	Dr Vijay Janyani	National Conference On Advances In Wireless And Optical Communication Technologies-2010	Poornima College of Engg, Jaipur India	August 7-8, 2010	Photonic Crystal Devices	Photonic Crystals

### Participation of Faculty in International Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Country	Date(s)
1.	Ghanshyam Singh	A course on Metallic nanoparticles and nanostructures: optical properties & applications	University of Eastern Finland, Joensuu Campus	Finland	March 15-17, 2010
2.	Ghanshyam Singh	NanoTEM lecture series on "Sample preparation techniques for electron microscopy studies"	BioMater Centre @ University of Eastern Finland, Kuopio campus	Finland	March 25, 2010.
3.	K.K. Sharma,	International Conference on Advances in Communication, Network, and Computing,, CNC 2010	Calicut, Kerala	India	Oct. 4-5, 2010
4.	Dr Vijay Janyani	UKIERI Meeting and Workshop	City University London	UK	July 8-18, 2010
5.	Dr Vijay Janyani	International Conference on Communications and Signal Processing (ICCSP)	NIT Calicut	India	February 10-12, 2011
6.	Dr Vijay Janyani	International Conference – Asia Pacific Microwave and Photonics Conference (APMP-2010)	Polytechnic University	HongKong	April 26-28, 2010.

### Participation of Faculty in Short Term Courses Abroad

S. No.	Name of the Faculty	Name of the Course	Place	Country	Date(s)
1.	Ghanshyam Singh	Awarded with CIMO fellowship, Govt. of Finland to carry out research work in Nanophotonics/Plasmonic switches	Department of Physics and Mathematics, University of Eastern Finland, Joensuu	Finland	January-June 2010

### Participation of Faculty in Short Term Courses in India

S. No.	Name of the Faculty	Name of the Course	Place	Date(s)
1.	Mrs. Ritu Sharma	Memory Design and Testing	Dept. of ECE, MNIT Jaipur	Dec. 11-15, 2010



**STTP on Semiconductor Memory Design & Test**





**National Conference on Hydrology**



**Placement Talk**

**Visit of Faculty Members to other Institutions**

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit
1.	Dr Vijay Janyani	AIT Bangkok	MHRD Faculty Secondment	Sept-Dec, 2011

**Visitors to the Department**

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)
1.	Prof. D. Jankiram	Professor	IIT Chennai	PhD viva	Jan 10, 2011
2.	Prof. B. R. Singh	Professor	IIT Allahabad	PhD viva	May 18, 2010

**Seminar/Conference/Workshop organized:**

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)
1	Dr. M.M. Sharma	Organizing Secretary	National Conference on Recent Advances in Microwave Tubes, Devices and Communication	JaganNath Gupta Institute of Engineering and Technology, Jaipur,	March 4-5, 2011

**DEPARTMENT OF MECHANICAL ENGINEERING****Participation of Faculty in International Seminar/Symposia/Workshop/Conference**

S. No.	Name of the Faculty	Title of Event	Place	Country	Date(s)
1.	A.P.S.Rathore	Capturing life cycle issues by incorporating degradation behavior in reliability based design optimization	Cancun	Mexico	June 5-9, 2010

**Seminar/Conference/Workshop organized:**

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)
2	Dr. Himanshu Chaudhary	Reader	10th National Conference on Industrial Problems on Machines and Mechanisms (IPRoMM-2010)	MNIT Jaipur	Decemeber 17-18, 2010

**DEPARTMENT OF MANAGEMENT STUDIES****Participation of Faculty in International Seminar/Symposia/Workshop/Conference**

S. No.	Name of the Faculty	Title of Event	Place	Country	Date(s)
1.	A.P.S.Rathore	Capturing life cycle issues by incorporating degradation behavior in reliability based design optimization	Cancun	Mexico	June 5 - 9, 2010

**Visitors to the Department**

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)
1.	Prof. Raj Bhatti	Principal Lecturer	University of Greenwich UK	Lecture to MBA TM students	Apr 5-9, 2010
2.	Mr. Ajay Gupta	MD	Kamtech Associate	Interaction with students	Apr. 12, 2010
3.	Mr. Tim Gore	Director	University of Greenwich UK	Interaction with students	Apr. 27, 2010
4.	Prof. Leslie Johnson	Head Business School	University of Greenwich UK	Meeting with faculty	Nov. 30, 2010
5.	Dr. Christopher Bruce Cronin	Sr. Faculty	University of Greenwich UK	Meeting with faculty	Nov. 30, 2010
6.	Dr. Joanna Mary Cullinane	Director	University of Greenwich UK	Meeting with faculty	Nov. 30, 2010
7.	Prof. David John Pollard	Professor	University of Greenwich UK	Meeting with faculty	Nov. 30, 2010
8.	Dr. Elizabeth Janet Lethbridge	Principal Lecturer	University of Greenwich UK	Meeting with faculty	Nov. 30, 2010

**DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING****Participation of Faculty in International Seminar/Symposia/Workshop/Conference**

S. No.	Name of the Faculty	Title of Event	Place	Country	Date(s)
1.	Prof. Ashok Sharma	50 <sup>th</sup> International Foundry Conference	Portorož	Slovenia	Sept. 8-10, 2010
2.	Prof. Anil Kumar Bhargava	Materials Science and Technology 2010 Symposium on "Austenite Formation and Decomposition IV"	George R. Brown Convention Center, Houston, TX	USA	Oct. 17-21, 2010

**Participation of Faculty in National Seminar/Symposia/Workshop/Conference**

S. No.	Name of the Faculty	Title of Event	Place	Date(s)
1.	Prof. Ashok Sharma	59th Indian Foundry Congress Theme: Foundries Resurgence-India	Chandigarh	Feb. 11-13, 2011

**Guest Lectures Organized in the Department**

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date
1.	Dr. Sudipto Ghosh	Associate Professor IIT Kharagpur	Delivered talk on "Atomistic Modeling of Materilas System"	Sep. 17, 2010

**Visit of Faculty Members to other Institutions**

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit
1.	Prof. Ashok Sharma	Dept. of Materials and Metallurgy, University of Ljubljana, Slovenia	Delivered technical talk on "RSF Technology for Semi Solid Casting Processes".	Sept. 7, 2010
2.	Prof. Ashok Sharma	Deptt. of Met. & Mat. Engg., IIT Roorkee on	Recent Trends in Semi-Solid Processing of aluminium alloys",	July 9, 2010
3.	Prof. Ashok Sharma	Dept. of Materials, IISc Bangalore	Collaborative R&D project	March 10-11, 2011

## Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)
1.	Dr. Sudipto Ghosh	Associate Professor	IIT Kharagpur	Delivered talk on "Atomistic Modeling of Materilas System"	Sep.17, 2010
2.	Dr. Subodh Kumar	Professor	IISc Bangalore	Connection with UGC Networkin Resource Center for Materials Programme	Oct. 13, 2010
3.	Dr. S L Mannan	Scientist & Director (retired)	IGCAR, Kalpakkam	General interaction	Feb.3, 2011

## DEPARTMENT OF STRUCTURAL ENGINEERING

### Keynote addresses by the Faculty in Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)	Title of Keynote address	Theme
1.	Dr M. K. Shrimali	Approach & Methodoloties for Hazard Risk and Vulnerability Assessment in States	New Delhi	Nov 23-24, 2010	Vulnerability of Structures	National Consultation workshop
2.	Dr M. K. Shrimali	International conference	Dhule	Jan 15, 2011	Seismic Performance of Liquid Tanks	Earthquake Resistance Structures

### Participation of Faculty in International Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Country	Date(s)
1.	Dr. M. K. Shrimali	International Conference on Sunrise Technologies (i-Cost) 2011	Dhule	India	January 13-15, 2011
2.	Dr.S.D Bahrti	International Conference on Sunrise Technologies (i-Cost) 2011	Dhule	India	January 13-15, 2011
3	Dr. S.K. Tiwari	1 <sup>st</sup> International Conference on "Current Trends in Technology (NUICONE 2010)"	Institute of Technology, Nirma University, Ahmedabad	India	Dec. 9-11, 2010

**Participation of Faculty in National Seminar/Symposia/Workshop/Conference**

S. No.	Name of the Faculty	Title of Event	Place	Date(s)
1.	Dr M. K. Shrimali	National Consultation Workshop	New Delhi	Nov 23-24, 2010

**Guest Lectures Organized in the Department**

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date
1.	Mr. C. M. Dordi	Corporate Head (Product Quality), Gujarat Ambuja Cements Ltd	Why Concrete is so human?	Feb. 25, 2011

**Visit of Faculty Members to other Institutions**

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit
1.	Dr. M. K. Shrimali	SSDCE and Polytechnique, Dhule	Conference	Jan. 15, 2011
2.	Dr. M. K. Shrimali	Govt. Engineering College Aurangabad	Ph.D. Viva-Voce	March 16, 2011
3.	Dr. S. D. Bharti	SSDCE and Polytechnique, Dhule	Conference	Jan. 15, 2011
4.	Dr. S. K. Tiwari	MANIT, Bhopal	To conduct M. Tech thesis examination	2010
5.	Dr. S. K. Tiwari	RPSC, Ajmer	To conduct interviews for the post of Junior Engineers	2010

**Visitors to the Department**

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)
1.	Mr. C. M. Dordi	Vice President (Technical Services),	Gujarat Ambuja Cements Ltd	Technical Visit	Feb 25, 2011

**DEPARTMENT OF CHEMISTRY****Participation of Faculty in International Seminar/Symposia/Workshop/Conference**

S. No.	Name of the Faculty	Title of Event	Place	Country	Date(s)
1.	Dr. Jyoti Joshi	12 <sup>th</sup> International conference of Int. Academy of Physical Sciences, on Engg. Interfaces of physical Sciences..	U.O.R. and Arya institute of technology, Jaipur	India	Dec. 22-24, 2010

2.	Dr. Jyoti Joshi	International conference on Nanotechnology, Materials and Composites for frontier applications.	Bharti Bidyapeeth Deemed University, Pune.	India	Oct. 14-15, 2010
3.	Dr. Jyoti Joshi	Indian Science Congress.	Kottankulathur, Tamil Nadu.	India	Jan. 3-7, 2011

#### Participation of Faculty in National Seminar/Symposia/Workshop

S No.	Name of the Faculty	Title of Event	Place	Date(s)
1.	Dr. Ragini Gupta	National Symposium on Organic Synthesis	IIS University, Jaipur	Feb. 18-19, 2011.
2.	Dr. Ragini Gupta	Training workshop on Green Chemistry	Delhi University	Nov. 20, 2011
3	Dr. Jyoti joshi	All India Seminar on 'New strategies and it's impact on Global warming.'	Raj.College of Engg.for women.Jaipur.	Aug. 20-21, 2010
4.	Dr. Mukesh Jain	National symposium on New frontiers in chemical sciences (NFCS)	Centre of Advanced studies, chemistry department, Univ. of Rajasthan, Jaipur, India	2010
5.	Dr. Mukesh Jain	All India Seminar on New strategies for reducing carbon foot prints and global warming	Rajasthan college of Engineering for women, Jaipur	2010

#### DEPARTMENT OF HUMANITIES

#### Participation of Faculty in International Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Country	Date(s)
1.	Dr. Nupur Tandon	3 <sup>rd</sup> International Seminar on Muculturalism and Multilinguilism	Semarang	Indonesia	Jan 19-20,2011

#### Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)
1.	Dr. Nupur Tandon	Workshop on The Importance of Using the language in Between When Teaching ESL	Subodh College Jaipur	Sept. 29, 2010

### Visit of Faculty Members to other Institutions

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit
1.	Dr. Nupur Tandon	MGD Girls' School Jaipur	Judge at the IPSC Debate Competition	Sept. 14, 2010

### DEPARTMENT OF PHYSICS

#### Participation of Faculty in National Seminar/Symposia/Workshop/Conference

S. No.	Name of the Faculty	Title of Event	Place	Date(s)
1.	Dr. K. Sachdev	3 <sup>rd</sup> National Symposium for Materials Research Scholars	Deptt. Of Met. Engg. & Mat. Sci., IIT Bombay	7-8 May, 2010
2.	Dr. K. Sachdev	Workshop on Advanced Characterization Techniques	Deptt. Of Met. Engg. & Mat. Sci., IIT Bombay	6 <sup>th</sup> May, 2010

### Visit of Faculty Members to other Institutions

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit
1.	Prof. S. K. Sharma	Bhabha Atomic Research Center, Mumbai	Presentation of Research Project Proposal	Oct 1-2, 2010

### CENTRE FOR ENVIRONMENTAL ENGINEERING

#### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date
1.	Dr Nitin Goyal	Associate Professor, KIT, Jaipur	"Receptor Modeling" and "Characterization of PM in air"	April 7 and 12, 2010
2.	Dr. M. S. Babel	Professor, Asian Institute of Technology, Bangkok	"Urban water management"	12 <sup>th</sup> April , 2010
3.	Dr. Sagar Venkateswaran	President, OptiXtal Inc., Philadelphia, PA USA	"Supercapacitors"	27th August 2010
4.	Dr Nitin Goyal	Associate Professor, KIT, Jaipur	"Air quality modeling for proper town planning for ensuring healthy conditions"	March 10, 2011

**Visit of Faculty Members to other Institutions**

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit
1.	Prof A. B. Gupta	SIIT Bangkok	Seeking collaboration between MNIT Jaipur and SIIT	March 21, 2011

**Visitors to the Department**

S. No.	Name of the Visitor	Designation	Affiliation	Purpose	Date(s)
1.	Dr Sandhya Babel	Associate Professor,	SIIT Bangkok	Research collaboration	12 <sup>th</sup> April, 2010

**Seminar/Conference/Workshop/Interactive session organized:**

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)
1	Dr A. B. Gupta and Dr Jyotirmay Mathur	PCE and Asso. Prof. Mechanical	Development of vision for Centre for energy and environment	Design Centre, MNIT Jaipur	July 31, 2010
2.	Ms Nivedita Kaul	Assistant Prof. , Civil	Ozone day	MNIT Jaipur	16 <sup>th</sup> September, 2010
3.	Prof Sudhakar Reddy	Prof. , Civil IIT Kharagpur	Transport-environment interaction and research collaboration	MNIT Jaipur	November 12, 2010
4.	Dr A. B. Gupta, Dr Jyotirmay Mathur and Ms Nivedita Kaul	PCE, Asso. Prof. Mechanical, Assistant Prof. , Civil	“Energy efficient and environmental friendly lighting technologies”	MNIT Jaipur	December 23, 2010

**ENTERPRENEURSHIP DEVELOPMENT CELL****Visitors to the Department**

S. No.	Name of the Visitor	Designation	Affiliation	Purpose and Date(s)
1.	Team of 25 members visited from developing and developed nations	Govt. officials, Entrepreneurs, Academicians	18 Countries	Interaction, 05/10/10
2.	Team of 29 members visited from developing and developed nations	Govt. officials, Entrepreneurs, Academicians	18 Countries	Interaction, 10/11/10

**Seminar/Conference/Workshop organized:**

S No.	Name of the Organizing Secretary	Designation	Title of Event	Place	Date(s)
1	Dr. A. Bhardwaj	Associate Professor and Coordinator	Technology based Entrepreneurship Development Programme on CNC Machining	MNIT Jaipur	15/03/2010 to 23/04/2010

Twelve Entrepreneurship Awareness Camps were organized at MNIT and in various Engineering and Science colleges of the state.

**INDUSTRY - INSTITUTE PARTNERSHIP CELL**

One day workshop on Industry - Institute Interaction was organized on July 31, 2010 in collaboration with IIT Roorkee,

**11.7 List Of Candidates Pursuing /Awarded Ph. D. or M.Tech.****DEPARTMENT OF ARCHITECTURE****List of Candidates Awarded M. Plan. Degree (2009-11)**

S. No.	Name of student	Supervisor	Title of thesis	Status
1.	Supri Maheshwari	Mr. Satish Pipralia	Development strategies for Ganga Heritage Zone: A case study of Kanpur	Submitted
2.	Kirti Kalla	Prof. Alok Ranjan	Land use transformation- Problems and prospects: A case of Walled city, Jodhpur	Submitted
3.	Aarti	Mr. Ram Niwas Sharma	To study the development trends in Rohtak with reference to NCR proposals for the Haryana sub-region.	Submitted
4.	Amit Sharma	Mrs. Kalpana Pandit	Remote Sensing & GIS approach for developing a Town Planning Scheme; Case Study of Prithviraj Nagar(South), Jaipur.	Submitted
5.	Tulsi Prasad	Mrs. Kalpana Pandit	Impact of Infrastructure due to urban transformation along major arterial road a case study of Ajmer road in Jaipur city	Submitted
6.	Anubhav Goyal	Prof. Rajeev Shringi	Assessment of housing scenario with special reference to urban poor in Jaipur city.	Submitted

7.	Suvadip Bhowmik	Mr. Tarush Chandra	Revisiting the provisions of Green Belt in major cities of India- A case study of Jaipur.	Submitted
8.	Santosh Kumar Sharma	Mrs. Meenu Varshney	Impact of SEZ on socio-economy condition of its adjoining villages; A case of Mahindra SEZ, Jaipur.	Submitted
9.	Pragya Kotia	Sh. Nand Kumar	Impact of Urban development on water supply- A case of Jaipur city.	Submitted

## DEPARTMENT OF CHEMICAL ENGINEERING

### List of Candidates Awarded/Pursuing Ph. D. Degree

S. No.	Name of student	Supervisors	Topic	Status
1.	Ms. Madhu Agarwal	Prof. S.P. Chaurasia & Dr. Kailash Singh	Studies on Preparation and Characterization of Biodiesel	Completed on 11/02/11
2.	Mr. Sushant Upadhyaya	Prof. S.P. Chaurasia & Dr. Kailash Singh	Studies on Vacuum Membrane Distillation for Desalination	Pursuing
3.	Mr. Rajeev Kumar Dohare	Dr. Kailash Singh & Dr. Rajesh Kumar	Control of Dividing Wall Column	Pursuing
4.	Ms. Monika Maheshwari	Dr. R. K. Vyas	Studies on Removal of Antibiotics from Wastewater	Pursuing
5.	Mr. Ravi Dhabhai	Prof. S. P. Chaurasia	Studies on Bioethanol Production from Ligoncellulosic Feedstock	Pursuing
6.	Ms. Kriti Bhandari	Prof. S. P. Chaurasia and Prof. Alok Gupta	Studies on Synthesis of DHA Rich Triglycerides from Fish Oil	Pursuing
7.	Ms. Parul Bhatt	Dr. Prabhat Pandit and Dr. R. K. Vyas	Removal of Dyes from Water	Pursuing
8.	Mr. Sandeep Tomar	Dr. R. K. Vyas and Dr. A. B. Gupta	Studies on Chemical Characterization and Treatment of Produced Water from Oil and Gas Production Facility	Pursuing
9.	Ms. Swati Jain	Dr. Prabhat Pandit and Dr. R. K. Vyas	Removal of Antiviral Drugs from Water	Pursuing
10.	Ms. Manisha Sharma	Dr. R.K. Vyas & Dr. Kailash Singh	Reactive Adsorption	Pursuing
11.	Mrs. Isha Arya	Dr. S. K. Jana	Studies on the performance of a Foam-bed Reactor for Gas-liquid and Gas-liquid-solid systems.	Pursuing

**List of Candidates Awarded/Pursuing M. Tech. Degree**

S.No.	Name of student	Supervisor	Title of thesis	Status
1.	Vijayesh Toshniwal	Dr. Prabhat Pandit	Modelling and Simulation of Membrane Reactor for Hydrogen Production	Completed
2.	Hardik T. Banker	Dr. Suja George	Studies on Fluoride Removal using Activated Alumina	Completed
3.	Saakshy	Mrs. Madhu Agarwal	Extraction of Natural Dyes from Babool Bark & its Application in Handmade Paper Industry	Completed
4.	Sunny Soni	Mrs. Madhu Agarwal	Biodiesel Production in Batch and Continuous Reactor	Completed
5.	Anjali Jain	Dr. S. P. Chaurasia	Enzymatic Saccharification of Sweet Sorghum	Completed
6.	Jitendra Kumar Singh	Prof. Alok Gupta	Synthesis & Characterization of PMMA and Temperature Control of Batch Emulsion Polymerization	Completed
7.	Ajay Sujan	Dr. R. K. Vyas	Studies on Volumetric Gas-Liquid Mass Transfer Coefficient for Aeration of Water/Wastewater	Completed
8.	Manisha Sharma	Dr. Kailash Singh	Control of Heterogeneous Azeotropic Distillation Column	Completed

**DEPARTMENT OF CIVIL ENGINEERING****List of Candidates Awarded/Pursuing Ph. D. Degree**

S. No.	Name of student	Supervisor	Topic	Status
1.	Ms Nivedita Kaul	A.B. Gupta Jyotirmay Mathur	Particulate pollution in urban indoor environs	Thesis submitted
2.	Mr. Lalit Joshi	A.B. Gupta Dr Jyotirmay Mathur	Particulate pollution in rural indoor environs	Work in progress
3.	Mr. Rajneesh Jain	A.B. Gupta Dr Jyotirmay Mathur	Particulate pollution in urban industrial indoors	Work in progress

4	Mr. D.R. Jangid	A.B. Gupta Dr. R.K.Vyas	Optimization of sewage treatment in the presence of dyes	Work in progress
5	S B Patil	A K Vyas	Application of Solidification/ Stabilization technique - use of Imperial Smelting Furnace Slag as a Construction Material	Awarded
6	S.M.S.Shashidhara	A K Vyas	A Study on the Characterization and use of ISF Slag as fine aggregate in Cement concrete	Submitted
7	Dipak N. Kongre	Rohit Goyal	Water Resource Management Study of Proposed Parbati-Kalisindh-Chambal Link Project	Ongoing
8	Vijai Kumar Singhal	Rohit Goyal	Use of GIS for Pollution Control Planning/Monitoring in the Rajasthan State	Ongoing
9	Sumit Khandelwal	Rohit Goyal	Study of Spatial and Seasonal variations of Surface Temperatures of Jaipur City and its relationship with Land Cover/Land Use changes.	Ongoing
10	Pradeep Agarwal	Rohit Goyal	Groundwater Model to predict the impact due to textile units at Jasol-Bithuja-Balotra Area, District Jodhpur, Barmer Rajasthan	Ongoing
11	Amit Lunia	Sanjay Mathur	"Carbon Foot Print Reduction in Hospitals through Environment Management Systems"	Ongoing
12	Savita Chaudhary	Sanjay Mathur	"Feasibility Assessment for De-fluoridation of drinking Water by Electro Coagulation using Alumina	Ongoing

#### List of Candidates Awarded M. Tech. Degree

S. No.	Name of student	Supervisor	Title of thesis	Status
1.	Dinesh Kumar	Prof. A.B. Gupta	Disinfection of secondary treated sewage by chlorine and UV- a case study of Jaipur	Awarded
2	Yog Bahadur Chad	Pawan Kalla, Dr. Anurag Misra	Strength, Carbonation and Permeability Studies on Wollastonite Added Concrete	Awarded
3	Ankur Singh	Pawan Kalla, P.S.Kandhal	A Study on Design, Performance Analysis & Cost Effectiveness of Pothole Repair By Cold Patching Mix	Awarded
4	Priyanka Manat	Pawan Kalla	Modern Toll Collection Systems	Awarded
5	Ms. Neha Sharma	Sanjay Mathur	COD Removal of Simulated Textile waste water by Continuous Electro coagulation Process	Awarded
6	Yashwant Laxkar	Sanjay Mathur	Stability Analysis Of Vermi-compost	Awarded

**DEPARTMENT OF COMPUTER ENGINEERING****List of Candidates Awarded/Pursuing Ph. D. Degree**

S. No.	Name of student	Supervisor	Topic	Status
1.	K.K.Paliwal	M.S.Gaur	QoS in Network on Chip	Thesis successfully defended (October, 2010)
2	Neeta Nain	V.Laxmi	Interest Point Detection and its Hardware Implementation	Thesis successfully defended
3	Naveen Choudhary	Prof. M.S.Gaur V.Singh	Irregular Topology Generation in NoC	Thesis successfully defended
4	Namita Mittal	Prof. K.C.Jain	Personalized Information Retrieval using User Profile and Collaborative Filtering	Thesis submitted
5.	Mushtaq Ahmed	Dr.V. Laxmi	Adaptive and Fault Tolerant Routing in 2D Mesh Network-on-Chip	Thesis submitted
6	Dinesh Gopalani	Prof. K.C.Jain	Aspect Oriented Calculus	Under Progress
7.	Vinod P.	Dr. V.Laxmi Prof. M.S. Gaur	Malware Analysis and Detection Methods	Under Progress
8	Jyoti Grover	Prof. M.S.Gaur Dr.V.Laxmi	Attack Models and Detection in Vehicular Ad hoc Networks	Under Progress
9	Preety Singh	Prof. M.S.Gaur Dr.V.Laxmi	Audio-Visual Speech Recognition	Comprehensive due
10	Rajbir Kaur	Prof. M.S.Gaur Dr.V.Laxmi	Routing Protocols in MANETs – Attacks, detection Techniques and Countermeasures	Under Progress
11	Chhagan Lal	Dr.V.Laxmi Prof. M.S.Gaur	QoS in MANETs	Course Work
12	Reena Gunjan	Prof. M.S.Gaur	Digital Watermarking	Comprehensive due

**List of Candidates Awarded M. Tech. Degree**

S. No.	Name of student	Supervisor	Title of thesis	Status
1.	Basant Agarwal	M.S.Gaur	Anomaly Network Traffic Detection using Entropy Calculation and SVM	Completed
2.	Prateek Sharma	M.S.Gaur	Partial Implementation of IEEE802.11p on Qualnet Simulator	Completed
3.	Siddharth Mani	M.S.Gaur Vijay Laxmi	ROMM Routing and its analytical comparison with XY, OE and PROM Routing in NoC	Completed

4.	Atul Jain	M.S.Gaur D.Gopalani	Early DDOS Detection using CAT Method	Completed
5.	M. Vijaya Raju	Vijay Laxmi M.Tripathi	LSB and Watermarking based Steganography of Digital Color Image for Secure Transformation	Completed
6.	Shashikant Rathore	Yogesh K. Meena Vijay Laxmi	SPAM Blocker	Completed
7.	Mahendra Pratap Singh	M.Tripathi M.S.Gaur	Performance Evaluation of Routing Protocols in MANETs	Completed
8.	Vijay Pal Chaudhary	Vijay Laxmi Yogesh K. Meena	Texture Analysis	Completed
9.	Ravi Saharan	Vijay Laxmi	Image Reconstruction	Completed
10.	Mahboob Alam	Vijay Laxmi	Linear Canonical Transform and its Applications in Image Processing	Completed
11.	Maninder Singh Nehra	Vijay Laxmi	Development of RST Invariant Digital Watermarking Techniques	Completed
12.	Anupama	Vijay Laxmi M.S.Gaur	Circuit Partitioning Algorithms for Parallel Logic Simulation	Completed
13.	Monica Bhandari	Vijay Laxmi M.S.Gaur	Multi-Core EDA	Completed
14.	Bhupendra Singh Sankhla	M.S.Gaur Vijay Laxmi	Metamorph: Code Morpher and Metamorphic Malware Analysis	Completed
15.	Ravi Raj Choudhary	Vijay Laxmi M.S.Gaur	Malware Detection through Data Mining	Completed
16.	Shilpa Gupta	Vijay Laxmi	Visual Cryptography Scheme and Vote Verifiability in e-voting	Completed

#### DEPARTMENT OF ELECTRICAL ENGINEERING

##### List of Candidates Awarded/Pursuing Ph. D. Degree

S. No.	Name of student	Supervisor	Topic	Status
1.	Sunil Kumar Gupta	Dr. H.P. Tiwari	Power Quality Enhancement of a Power System using Dynamic Voltage Restorer	Submitted
2.	Ramesh Kumar Pachar	Dr. H.P. Tiwari	Static Transfer Switch Applications to Power Systems	Pursuing
3.	Lata Gidwani	Dr. H.P. Tiwari	Wind Energy Integration in Electrical Power Grid: Transient Fault Behaviour and Power Quality Improvement	Pursuing

4.	Sudhanshu Gupta	Dr. H.P. Tiwari	Transient Fault Behaviour and Power Quality Assessment of Interconnected Distributed Generation System	Pursuing
5.	B. Kharbas	Dr. Manoj Fozdar and Dr. H.P. Tiwari	Course work in progress	Pursuing
6.	S. V. Bhangale	Dr. Rajesh Kumar and Dr. R. A. Gupta	Direct Torque Control of High Performance IM Drive	Submitted
7.	Rajesh Surjuse	Dr. Rajesh Kumar and Dr. R. A. Gupta	Network Based Estimators and Controllers for IM Drive	Submitted
8.	Manoj Gupta	Dr. Rajesh Kumar and Dr. R. A. Gupta	Quality Disturbances using AI Techniques	Pursuing
9.	Shree Krishna Bishnoi	Dr. Rajesh Kumar and Dr. R. A. Gupta	AI Based Control and Estimation of SRM Drive	Pursuing
10.	Ajay Kr. Bansal	Dr. Rajesh Kumar and Dr. R. A. Gupta	Optimal Control of Wind Energy Conversion System	Pursuing
11.	Virendra S. Sangtani	Dr. Rajesh Kumar and Dr. R. A. Gupta	Matrix Converter fed IM drive	Pursuing
12.	Mrs. Prerna Jain	Dr. Rohit Bhakar	Electricity Bidding	Pursuing
13.	Mrs. Parul Mathuria	Dr. Rohit Bhakar	Risk Management in Electricity Markets	Pursuing
16.	Bharat Bhushan Jain	Prof. R.A.Gupta	Power Electronics and its Application in Renewable Energy Systems	Pursuing
17.	Javed Khan Bhutto	Prof. Mool Singh	Investiagtion for Photo voltaic systems	Submitted
18.	Mahendra Lalwani	Prof. Mool Singh	Techno economic feasibility of photo voltaic systems.	Synopsis submitted
19.	Pushpendra Singh	Prof. Mool Singh	Integrated operation of conventional and Green energy sources	In progress
20.	Atul Phadke	Prof. K.R.Niazi	Voltage Stability Assessment and Margin Enhancement with FACTS devices	Awarded
21.	Nikhil Gupta	Prof. K.R.Niazi	Distribution System Performance Improvement	In progress
22.	Anil Swarnkar	Prof. K.R.Niazi	Distribution Network Reconfiguration using AI Techniques	In progress
23.	Kusum Dangi	Prof. K.R.Niazi	On Line Security evaluation of Power System Using AI Techniques	In progress
24.	Sanjay Kumar	Prof. K.R.Niazi	Dynamic performance improvement using FACTS Controller	Submitted

25.	Vinay Kumar	Prof. K.R.Niazi	Course work	In progress
26.	Promod Kumar Bhatt	Prof. R.A.Gupta	Course work	In progress
27.	Rajive Tiwari	Dr. Vikas Gupta K.R.Niazi	Voltage stability assessment & preventive control	In progress

#### List of Candidates Awarded M. Tech. Degree

S. No.	Name of Student	Supervisor	Title of thesis	Status
1.	Sonali Singh	Dr. H.P. Tiwari	Advance Simulation Model for Brushless DC Motor Drive and its Analysis	Awarded
2.	Jitendra Sharma	Dr. H.P. Tiwari	Power Quality Issues and its Enhancement using Custom Power Devices in power System	Awarded
3.	Mahendra Bhadu	Kusum Dangi	Optimal Operation of Multimachine Power System for Stability Improvement using STATCOM and Economic Load Dispatch using GA	Awarded
4.	Neeraj Kanwar	Kusum Dangi	Optimal Location of Shunt connected FACTS devices for Power System Transient Stability Enhancement	Awarded
5.	Vinay Kumar Jadoun	Anil Swarnkar	Environmental Friendly Economic Load Dispatch using Particle Swarm Optimization	Awarded
6.	Tanuj Manglani	Anil Swarnkar	Optimal Capacitor Placement in a Radial Distribution System using Plant Growth Simulation Algorithm	Awarded
7.	Mr. Arjun Lal Sonkaria	Prof. Mool Singh	Application of Dynamic Topology processing to distribution	Awarded
8.	Girraj Singh	Prof. K.R.Niazi & V.K.Jain	Short Term Load Forecasting Using Artificial Neural Network, Fuzzy Logic and Fuzz Neural Networks	Awarded
9.	Kailash Shrama	V.K.Jain & Prof. K.R.Niazi	Annual Electrical Load Forecasting Of Rajasthan: a Comparative Analysis of ANN, MLR and PEUM Approaches	Awarded
10.	K. Narayanan	Nikita Jhanjharia	Performance improvement of 14 bus system and impact of fault reduction and load shedding.	Awarded
11.	Prashant Dhadheech	A.K.Agrawal	Studyof design of power system stabilizer for single machine infinite bus system using fuzzy logic and GA	Awarded
12.	Sarfaraj	Nikita Jhanjharia	Minimization of Distribution losses by using feeder reconfiguration, OCP and OLTC	Awarded

**List of Candidates Pursuing M. Tech. Degree**

S. No.	Name of student	Supervisor	Title of thesis	Status
1.	Pradeep Anjana	Dr. H.P. Tiwari	Analysis of hybrid Renewable Energy System for Electrification in Rural, Remote and Hilly/Tribal Belt of Western Rajasthan	Dissertaion submitted
2.	Vishal Sharma	Dr. H.P. Tiwari	Investigation of Harmonics of aircondition and cold storage system.	Dissertaion submitted
3.	Kshamta Mathur	Prof. R. A. Gupta	Voltage Sag/Swell Mitigation by dynamic voltage restorer using A.I.	Dissertaion submitted
4.	Nishant Dwivedi	Dr. Manoj Fozdar	Mitigation of fault induced voltage sag by optimal placement of STATCOM using Genetic Algorithm	Dissertaion submitted
5.	Mritunjay K. Modi	Anil Swarnkar	Multi constrain Economic Load Dispatch using Genetic Algorithm and Particle Swarm Optimization	Dissertaion submitted
6.	Pushpendra Singh	Anil Swarnkar	Distribution System Performance Improvement using Renewable energy Distributed Generation	Dissertaion submitted
7.	Sujata Singh	Nikhil Gupta	Squential Optimization of reconfiguration and Capacitor Placement using Ant Colony Optimization	Dissertaion submitted
8.	Satish Sharma	Dr. Rohit Bhakar	Non-cooperative game theoretic approach for Electricity bidding	Dissertaion submitted
9.	Varun Satya	Prof. K. R. Niazi	Electricity market equilibrium model considering demand electricity	Dissertaion submitted
10.	Divya Mathur	Prerna Jain	An evolutionary strategy and immigration refusal based hybrid biogeography based optimization for valve point economic load dispatch problem	Dissertaion submitted
11.	Sumit Sharma	Prof. Mool Singh	Particle Swarm Optimization for optimal placement of distributed generation on distributed network	Dissertaion submitted
12.	Ravi Prakash	Nikita Jhanjharia	Distributed generation integrated with grid	Dissertaion submitted
13.	Ravendra Pal Singh	V. K. Jain	Thermal aging of transformer and network system	Dissertaion submitted
14.	Atul Kulshrestha	Nikita Jhanjharia	Method of balancing supply and demand in an isolated system with voltage source inverter	Dissertaion submitted
15.	Jyotsna Singh	A.K. Agrawal	Neural Network based control of SVC to enhance voltage stability of AC power system	Dissertaion submitted

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**List of Candidates Awarded/Pursuing Ph. D. Degree**

S. No.	Name of student	Supervisor	Topic (Broad Area)	Status
1.	M.M. Sharma (Faculty)	Prof R.P. Yadav	Microstrip Antennas	Awarded
2.	Narendra Singh Yadav	Prof R.P. Yadav	MIMO Systems	Awarded
3.	OmPrakash Sharma	Dr V Janyani Prof S Sancheti	Fading Channel	Awarded
4.	Ulhas Deshmukh	Dr V Sahula		Awarded
5.	Deepak Jhanwar	Prof. S.G. Modani, Dr.K.K. Sharma	Audio Noise classification	PT, Research plan to be submitted
6.	Deosarkar Bhaskarrao Pundlikrao	1. Prof. R. P. Yadav 2. Dr. V. Janyani (caretaker supervisor)	Performance evaluation of clustering schemes for WSN	FT (QIP) About to submit
7.	Dhirendra Mathur	Dr. S. K. Bhatnagar Dr. Vineet Sahula	LTCC for MEMS	PT
8.	Garima Mathur (Mrs.)	Prof. K. C. Jain Prof. R. P. Yadav	Space Time Trellis codes	PT
9.	Ghanshyam Singh (faculty)	Prof. R. P. Yadav Dr. V. Janyani	Optical Switching	PT, About to Submit
10.	Hitendra Gupta	Dr. K.K. Sharma, Prof. S.D. Joshi, IIT, Delhi	Fog-degraded Image Enhancement	PT, Research plan to be submitted
11.	Jankiballabh Sharma	Dr. K.K. Sharma, Dr. Vinit Sahula	Image encryption	PT, Research plan to be submitted
12.	Lokesh Garg (Full Time with Institute Assistantship)	Dr. V. Sahula		Full time
13.	Lokesh Tharani	Prof. R. P. Yadav	A performance evaluation of limited multiuser detection technique using parallel interference cancellation multistage detector in DS-CDMA system	PT, submitted
14.	M.Salim	Prof. R. P. Yadav	Investigations on turbo	PT, About

	(faculty)		codes for improving error performance on wireless channels	to Submit
15.	Mahabir Prasad (FT without Institute Assistantship)	Prof. S.G. Modani Prof. Mool Singh		FT
16.	Mahanth Prasad (PT)	1. Dr. V Sahula 2. Prof. R. P. Yadav 3. Dr. V. K. Khanna	Dielectric membranes for Gas sensing	PT
17.	Manish Tiwari	Dr. V. Janyani	Supercontinuum generation in PCFs	PT
18.	Nagesh Janrao (QIP Poly)	Dr. V. Janyani	Photonic crystal waveguides for dispersion compensation and Slow light	FT (QIP)
19.	Parul Pathak (Ms)	Dr. V. Janyani	Dispersion Engineering in PCs	PT
20.	Praveen Gupta	Dr. K.K. Sharma, Prof. S.D. Joshi, IIT, Delhi	ECG signal modeling	PT, Research plan to be submitted
21.	R. A. Patil	Dr. V. Sahula, Dr. Atendu Mandal, CEERI Pilani	Hardware implementation of machine vision algorithm	FT (QIP)
22.	Renu Kumawat (Mrs.)	Dr. V. Sahula Prof. M.S. Gaur	Nanoscale reliable memory architecture	PT
23.	Ritu Sharma (Mrs) (faculty)	Dr. S. K. Bhatnagar Dr. V. Janyani	Elliptical PCFs	PT, About to Submit
24.	Sanjay Kr. Singh	Prof. S.G. Modani	Microstrip Antenna	PT
25.	Sanjay Sharma	1. Dr. V. Janyani 2. Prof. R. P. Yadav	Mixed Signal Processing (Allotted due to Joining of Prof. R.P. Yadav at RTU, Kota	PT
26.	Sanjeev Kr. Metya Full Time with Institute Assistantship	Prof. S.G. Modani Dr. V. Janyani	Optical Coding	FT
27.	Sanyog Rawat	Prof. R.P. Yadav, Dr.K.K. Sharma, M.N.I.T., Jaipur, Dr Deepak Bhatnagar, UoR	Microstrip Antenna (Allotted due to Joining of Prof. R.P. Yadav at RTU, Kota	PT, Research plan to be submitted

28.	Seema Deepak Yardi	Dr. M.M. Sharma	Design and Performance Analysis of Band-notched UWB Antennas	FT (QIP)
29.	Sudhir Keshari	Prof S. G. Modani	Fractional Fourier transform for image cryptography	FT
30.	Tarun Varma (faculty)	Dr D. Boolchandani		PT
31.	Vipin Pal	1. Dr. Girdhari Singh 2. Prof. R. P. Yadav	Wireless sensor networks	FT

#### List of Candidates Awarded M. Tech. Degree

S. No.	Name of student	Supervisor	Title of thesis	Status
1.	Ajay kumar	Mrs. Ritu Sharma	Analysis of dispersion property in PCF	Completed in 2010
2.	Ramesh Bharati	Mrs. Ritu Sharma	Design and analysis of dispersion flattened PCF with a concentric missing ring	Completed in 2010
3.	Sheesh ram	Mrs Ritu Sharma	Analysis of dispersion property in PCF for different material	Pursuing
4.	Anuradha Sharma	Mrs. Ritu Sharma	Improved dispersion in PCF for Hybrid Square lattice	Pursuing
5.	Rajesh Kumar	Dr.K.K.Sharma	Marine vessel Classification using fractional Fourier transform	Completed in 2010
6.	Kanchan Sengar	Dr.K.K.Sharma	Applications of fractional Capacitor in analog circuits: Study and analysis	Completed in 2010
7.	Dharmendra Kumar Fageria	Dr.K.K.Sharma	Watermarking based on image decomposition using self-fractional Fourier functions	Completed in 2010
8.	Kshitij Mittholiya	Dr V Janyani	Optimization Of Photonic Crystal Waveguide Coupling	Completed In 2010
9.	Rotash Kumar	Dr V Janyani	Dispersion Properties of Different Photonic Crystal Fiber Layouts	Completed In 2010
10.	Mukesh Kumar Arora	Dr V Janyani	Analysis of Fiber Index Profiles With Modified Dispersion Characteristics	Completed In 2010
11.	Sanjeev Yadav	Dr V Janyani	Design And Investigation of Microstrip Patch Antennas For Modern Communication Systems	Completed In 2010
12.	Ajay Choudhary	Prof R P Yadav	Capacity Analysis of WiMax	Completed In 2010

13.	Madan Lal Meena	Prof R P Yadav	Improved Channel Estimation Based on Parametric Channel approximation Modelling for OFDM System	Completed In 2010
14.	Neeta Mishra	M Salim	Comparison of Different Turbo Codes for Future Generation Mobile Communication	Completed In 2010
15.	Ramesh Bharti	Ghanshyam Singh	Design of Photonic Crystal Fiber with Low-Loss & Flattened Dispersion	Completed In 2010
16.	Sandeep Rankawat	MM Sharma	Propagation Study of Millimeter wave based on Rain Attenuation at 35GHz Measured in Western Rajasthan	Completed In 2010
17.	Shyam Sunder Manaktala	Sanjeev Agrawal	Fast Substrate Noise Aware Floorplanning for Mixed Signal SOC Designs	Completed In 2010
18.	Ajay Prakash Singh	Sanjeev Agrawal, Tarun Varma	The WiMAX 802.16e Physical Layer Model	Completed In 2010
19.	Krishan Kumar Baghel	Prof S G Modani	Improving Performance of Dirty Paper Coding at Low SNR Region	Completed In 2010
20.	Amit Chauhan	Prof R P Yadav	Channel Estimation for OFDM in the Presence of Carrier Frequency Offset (CFO)	Completed In 2010
21.	Prateek Pathak	Prof R P Yadav	Ultra Wide Band Space Time Coded Orthogonal Frequency Division Multiplexing	Completed In 2010
22.	Sanjay Kumar Singhal	M M Sharma	Implementation of Multi-scale Color Image Enhancement using MATLAB	Completed In 2010
23.	Ajay Kumar Saini	M Salim	Comparison and Analysis of Different Soft Output Error correcting Algorithm	Completed In 2010
24.	S. Ravi Kanth	M Salim	A comparison of Convolutional Codes and Low Density Parity Check Codes	Completed In 2010
25.	Jai Prakash Gujar	Ghanshyam Singh	2x2 Multimode Interference –Mach Zehnder Interferometer electro-optic switch with Push-pull electrodes	Completed In 2010
26.	Sanjeev Yadav	M M Sharma	Multi-frequency Slotted Circular Microstrip Antenna & PIFA Having Inverted F-slot for TVRO Applications	Completed In 2010
27.	Gargi Chaudhary	M Salim	Analysis of Error Floor in Turbo Codes	Completed In 2010
28.	Bhupendra Singh	Sanjeev Agrawal, Tarun Varma	Performance Analysis of 64-QAM-OFDM System	Completed In 2010

**DEPARTMENT OF MANAGEMENT STUDIES****List of Candidates Awarded/Pursuing Ph. D. Degree**

S. No.	Name of student	Supervisor	Topic	Status
1.	Deepika Joshi	Prof. APS Rathore	Determinent of competitiveness in auto component industry- A study of Indian auto component manufacturers.	Pursuing
2.	Khusbhoo Jain	Dr. Geetanjali Sharma	Performance Appraisal	Pursuing
3.	Sushila Singh	Dr. Dipti Sharma	Brand Management	Pursuing
4.	Sanjay Gaur	Dr. A. Bhardwaj	Quality in HR	Pursuing
5.	Ajeet Poonia	Dr. G.S. Dangayach Dr. A. Bhardwaj	Technology Management	Pursuing
6.	Mr. Sanjay Rajpal	Dr. A. Bhardwaj	Information Management in distance education	Pursuing
7.	Manisha Chaudhary	Dr. Dipti Sharma	An Analytical Study on Relationship between Competency Mapping and Employees Quality of Work life	Pursuing

**DEPARTMENT OF MECHANICAL ENGINEERING****List of Candidates Awarded/Pursuing Ph. D. Degree**

S. No.	Name of student	Supervisor	Topic	Status
1.	Manu Agastine	A.P.S.Rathore/ R Jain/ OP Yadav	Investigating system interactions failure behavior of a complex system at an early design stage.	Awarded
2.	Vijay Rathod	A.P.S.Rathore/ R Jain	Capturing life cycle issues in an early design optimization through degradation modeling.	Pursuing
3.	Dipika Joshi	A.P.S.Rathore/ Dipti Sharma	Determinent of competitiveness in auto component industry- A study of Indian auto component manufacturers.	Pursuing
4.	Chandrakumar Badole	A.P.S.Rathore/ R Jain	Impact of RFID on Perishable Supply Chain Management.	Pursuing
5.	A. D. Sharma	Dr. G. S. Dangayach Prof. S C Pathak	Advanced Manufacturing Technologies: A Multi Sector Study of Indian Manufacturing Companies	Awarded
6.	R. P. Rajoria	Dr. G. S. Dangayach Prof. S. K. Gupta	Failure Analysis of Antifriction Bearings	Awarded

7	Jinesh Jain	Dr. G. S. Dangayach Prof. G. Agarwal	Supply Chain Management	Pursuing
8	Ajeet Singh Poonia	Dr. A. Bhardwaj Dr. G. S. Dangayach	Technology Management	Pursuing
9	Piyush Mishra	Dr. G. S. Dangayach Dr. M. L. Mittal	Project Management	Pursuing
10	Anupam Krishna	Dr. G. S. Dangayach Prof. Rakesh Jain	Service Failure Management	Pursuing
11	Alok Mathur	Dr. G. S. Dangayach Dr. M. L. Mittal	Productivity Improvement	Pursuing
12	M. L. Meena	Dr. G. S. Dangayach Dr. A. Bhardwaj	Ergonomics	Pursuing
13	Charan Singh	Dr. G. S. Dangayach	Stress Management in ATC	Pursuing

#### List of Candidates Awarded/Pursuing M. Tech. Degree

S.No..	Name of student	Supervisor	Title of thesis	Status
1.	Anil Kumar Dangi	A.P.S.Rathore	Activities to improve boiler performance and efficiency at a coal based thermal power plant	Pursuing
2	Yogendra Kumar	A.P.S.Rathore	Finite element analysis of a complete prosthetic leg assembly.	Pursuing
3	Vikas Kumar	Dr. G. S. Dangayach	Quality Improvement in a Die Casting Industry	Completed
4	Gaurav	Dr. G. S. Dangayach	Improving Facility Layout of an Automotive Industry	Completed
5	Sanjeev Pratap Singh	Dr. G. S. Dangayach	Implementation of Taguchi DOE Techniques in a Casting Company	Completed
6	Deepak Kumar	Dr. G. S. Dangayach	Application of Taguchi Techniques in Improvement of Plastic Injection molded Thin shell Components	Completed
7	Mr. Vikas Shringi	DR. Himanshu Chaudhary & Dr. ML Mittal	Design Improvement in Tricycle used for Physically Challenged People	Completed, 2011
8	Ashish Goyal	Dr. Himanshu Chaudhary	Machine Design	Cont.
9	Rishi Choudhary	Dr. Himanshu Chaudhary	Machine Design	Cont.

**DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING**

S. No.	Name of student	Supervisor	Topic	Status
1	Satish Tailor	Prof. P.R.Soni Dr. V.K.Sharma Dr. R.M. Mohanty (Sr. Scientist, NFTDC Hyderabad)	Development and characterization of Plasma sprayed aluminium based nanocomposite coating	In progress
2	Aniruddha A. Gadhikar	Prof. Ashok Sharma, Prof C.P. Sharma and Prof. D.B. Goel (Retd., Deptt. of Met & Mat. IIT Roorkee)	Characterization study of steels for erosion resistant applications	In progress
3.	P.C. Meena	Prof. Ashok Sharma, Prof. Surendra Sing (Deptt. of Met & Mat. IIT Roorkee)	Characterization study of grain refinement of Al and Al-Si alloys by the addition of Al-Ti- C master alloys	In progress
4.	R.K. Duchaniya	Prof. Ashok Sharma, Prof. M.K. Totlani (Retd., Head, Surface Engg., BARC Mumbai)	Study of corrosion control by electroless Ni-P coating	In progress

**DEPARTMENT OF CHEMISTRY**

**List of Candidates Awarded/Pursuing Ph. D. Degree**

S. No.	Name of student	Supervisor	Topic	Status
1.	Murli Dhar Tiwari	Dr. Jyoti joshi	Studies of fluoride contamination in the ground water of northern Sanganer area of Jaipur District.	Completed.
2.	Deepti Sharma	Prof. P. S. Verma and Dr. Ragini Gupta	Design and Synthesis of Fluorine Containing Insecticides and Bio- insecticides	Completed
3.	Anshu Jain	Dr. Ragini Gupta	Synthesis of Novel Bioactive Heterocycles via Eco-friendly Routes	Submitted Jan. 2011
4.	Ritu saharan	Dr. Jyoti joshi	Some Electrochemical and Biocatalytic methods of Organic synthesis.	On-Going
5.	Mr. Abhishek Gupta	Dr. Mukesh Jain & Dr. B. S. Joshi	Inorganic complexes	On-Going
6.	Yogita Madan	Dr. Ragini Gupta	Catalysis and nanocatalysis for green organic transformations	On-Going
7.	Sukhbeer Kumari	Dr. Jyoti joshi	Synthetic Green Chemistry	On-Going
8.	Shuchi Maheshwari	Dr. Jyoti joshi	Synthetic Green Chemistry	On-Going

**DEPARTMENT OF HUMANITIES****List of Candidates Awarded/Pursuing Ph. D. Degree**

S. No.	Name of student	Supervisor	Topic	Status
1.	Niraja Saraswat	Dr. Nupur Tandon	Victorian Drama and An Analysis of Women in Shaw's Plays	Submitted
2	Asif Iqbal	Dr. Nupur Tandon	Problematic Speech Sounds of English for Hindi Speakers	Ongoing
3	Vandita Batra	Dr. Nupur Tandon	The Socio-Political concerns in the Plays of Howard Brenton and David Hare	Ongoing
4	Apeksha	Dr. Nupur Tandon	Whiting- The Dramatist of Existential Absurdity	Ongoing

**DEPARTMENT OF MATHEMATICS****List of Candidates Awarded/Pursuing Ph. D. Degree**

S. No.	Name of student	Supervisor	Topic	Status
1.	Ruchi Mathur	Prof. K.C. Jain	Information Theory	Awarded
2.	Ram Naresh Saraswat	Prof. K.C. Jain	Information Theory	Continuing
3.	Beena Bundela	Prof. Rashmi Jain	Special Function	Continuing
4.	Padma Kumawat	Prof. Rashmi Jain	Special Function	Continuing
5.	Alpana Gupta	Prof. Kantesh Gupta	Special Function	Continuing
6.	Vishwas Joshi	Dr. Nilama Gupta	Operation Research	Thesis submitted
7.	Sonia	Dr. Nilama Gupta	Operation Research	Continuing
8.	Shalini Shekhawat	Dr. Sanjay Bhattar & Prof. Rashmi Jain	Special Function, Integral Transforms	Awarded
9.	Pradeep Kumar	Dr. Santosh Chaudhary	Fluid Dynamics	Continuing

**DEPARTMENT OF PHYSICS****List of Candidates Awarded/Pursuing Ph. D. Degree**

S. No.	Name of student	Supervisor	Topic	Status
1.	Shubhra Mathur	Dr. K. Sachdev/ Prof. S. K. Sharma	Study of thermo-chemical behaviour of some metallic glasses	Submitted
2.	Abhishek Sharma	Prof. K. C. Swami	Study of effects of plasma nitriding process on some nitridable materials	Pursuing

3.	Rishi Vyas	Prof. S. K. Sharma/ Dr. K. Sachdev	Study of gas sensing properties of nanostructured ZnO thin films	Pursuing
4.	Kanan Jassal	Dr. K. Sachdev/ Dr. Arun Chougule	Dosimetric aspects of a-Si based EPID and its application in advanced radiotherapy	Pursuing
5.	Parul Gupta	Prof. S.K. Sharma	-	Undergoing Course work

### DEPARTMENT OF STRUCTURAL ENGINEERING

#### List of Candidates Awarded/Pursuing Ph. D. Degree

Name of Student	Supervisor	Remarks
Sanjay Mathur	Dr. SK Tiwari	Thesis Submitted
Raghuvir Singh	Dr. SK Tiwari	Thesis Submitted on Dec. 30, 2010
S.A.A.Naqvi	Dr. S. Chaudhary	In progress
Rajesh Gupta	Dr. R.C. Gupta	In progress
Pawan Kalla	Dr. R.C. Gupta	In progress
Anil Kumar Ghiya	Dr. SK Tiwari	In progress
Rohit Ramteke	-	In progress
Ms. Bhawana Tripathi	Dr. Sandeep Choudhary	In progress
Roopesh Mehta	Dr. SK Tiwari	In progress
Gaurav Sancheti	Dr. Ravindra Nagar, Dr. Vinay Agrawal	In progress
Ms. Sumitra Kumari	Dr. S. Chaudhary	In progress
Priyansha Mehra	Dr. R.C. Gupta	In progress
Vijay Sharma	Dr. M.K. Shrimali & S.D Bahrti	In progress
Praveen Jasoria	Dr. Ravindra Nagar, Dr. Vinay Agrawal	In progress
Vishnu Sharma	Dr. R.C. Gupta	In progress

#### List of Candidates Awarded M. Tech. Degree

S. No.	Name of student	Supervisor	Topic	Status
1.	Sanjay Mathur	Dr. S. K. Tiwari	"Behaviour of Reinforced Soils and Their Influence on Frames and Footings"	Thesis submitted in December, 2010
2.	Raghuveer Singh	Dr. S. K. Tiwari	"Evaluation of Reinforced Soil Techniques Seeking Their Influence on Stability of Earthen Embankments"	Thesis submitted in December, 2010
3.	Anil Ghiya	Dr. S. K. Tiwari	"Engineering Behaviour of Compacted Coal Ash mixed with Soils under Superimposed Loads"	Work in progress, Comprehensive Examination Completed
4.	Ankush Ganda	Dr. Vinay Agrawal	Suitability of Concrete Containing ISF Slag as Constion Material	Thesis submitted in December, 2010
5.	Aniket Sharma	Dr. Vinay Agrawal	Prediction of Slump in Concrete using Artificial Neural Network	Thesis submitted in December, 2010

6.	Arun Kumar Singh	Dr. M.K. Shrimali Cosupervisor- Dr. S.D. Bharti	Seismic Analysis of reinforced concrete structures with masonry infill walls	Completed
7.	Ruchi Gupta	Dr. M.K. Shrimali Cosupervisor- Dr. S.D. Bharti	Seismic Analysis of silos	Completed
8.	Kamlesh Mangal	Dr. M.K. Shrimali Cosupervisor- Dr. S.D. Bharti	Effect of Infill wall Area on soft storey Building	Completed
9.	Girish KumarSharma	Dr. M.K. Shrimali Cosupervisor- Dr. S.D. Bharti	Seismic Analysis of Reinforced Concrete Girder Bridge	Completed
10.	Nishant Khandelwal	Dr. S. K. Tiwari	“Shear Strength Characteristics of Stabilized Fly Ash”	Completed
11.	Tarun Singhal	Dr. S. K. Tiwari	“Experimental Study on Permeability and Compaction Characteristics of Stabilized fly Ash”	Completed
12.	Mahesh Kumar Tungria	Dr. S. K. Tiwari	“A Study on Improvement in Engineering Properties of Dune Sand using Lime and Fly Ash”	Thesis submitted
13.	Sonal Bafna	Dr. Ravindra Nagar	Bracing Systems for Tall Tubular Buildings Comparaive Study and Optimized Designs	Completed
14.	Rahul garg	Dr. Ravindra Nagar	Comparative Study of Framed Structures with Different Plan Irregularities in Zone V Using Static and Response”	Completed

## 11.8 HONOURS AND AWARDS TO FACULTY MEMBERS

### DEPARTMENT OF CHEMICAL ENGINEERING

#### 1. Prof. S. P. Chaurasia

- Elected as Executive Member of Indian Desalination Association
- Delivered an Invited talk at Banasthali University on Biofuels on 17.08.2010.
- Expert Member of selection Committee at MANIT Bhopal (07.05.2010)
- Expert Member of selection Committee at Banasthali University (17.06.2010)

#### 2. Dr. R. K. Vyas

1. Chaired a Technical Session (Technical Session 4 on Biotechnology I on 27th February 2011 at 2.00-3.45 pm) during the 2nd Conference on Advances in Chemical Engineering (AChemE 2011) held at Thapar University, Patiala, India held on 27-28th Feb., 2011 on February.

2. Delivered invited expert lecture entitled, "Trends in Wastewater and Greywater Treatment and Reuse" in the refresher course on Environment for the College and University Teachers, organized by UGC Academic staff college and Indira Gandhi Centre for Human Ecology, Environmental and Population Studies, University of Rajasthan, Jaipur, on 20.11.2010.
3. Reviewed manuscripts for the following Journals:
  - Industrial & Engineering Chemistry Research (American Chemical Society) (August - September 2010)
  - Chemical Engineering & Technology (John Wiley & Sons) (September 2010)

#### DEPARTMENT OF CIVIL ENGINEERING

1. **A. B. Gupta** Chaired a technical session in the two day workshop on "Sustainable development and environmental change", OTS, Jaipur, June 10-100, 2010.
2. **A. B. Gupta** Chaired a technical session on exposure assessment at Indo-French Seminar on "Indoor Air Quality: Monitoring, Prediction, Exposure Assessment and Cleaning, Nantes, France, May 31 - June 3, 2010
3. **A.B. Gupta** Chaired a technical session Chief guest of the valedictory function at all India seminar on "Water awareness and management for rural area", April 28-29, 2010, IE(I), Jaipur.
4. **A.B. Gupta** Nominated as a member of the Board constituted by the Government of Rajasthan on Environmental Health in Dec. 24, 2010 for three years.
5. **AK Vyas** delivered a key note address in a National Conference on "Recent Advances in Civil Engg" on March 4, 2011, held at Arya College of Engg, Jaipur

#### DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

- **Ghanshyam Singh**, Assistant Professor, Deptt. of ECE, MNIT Jaipur: Awarded with CIMO fellowship, Govt. of Finland (with maximum available research grant) to carry out research work in Nanophotonics/Plasmonic switches with optics groups @ Nano fabrication facilities, Department of Physics and Mathematics, University of Eastern Finland, Joensuu, Finland for a six month period (January-June 2010).
- **Dr Vijay Janyani**, Reader: Deputed to AIT Bangkok for Faculty Secondment by MHRD New Delhi for the August 2010 Semester.
- **Dr. M. M. Sharma:**
  1. Invited Speaker, National Conference on Microwave and its Applications (NCMA-2011), March 12, 2011, K.S. Jain Institute of Engineering & Technology, Modinagar, Ghaziabad.
  2. Invited Speaker and Session Chair, International Conference on Advances in Computer and Communication (ICACC2011), April 8-10, 2011, National Institute of Technology, Hamirpur (HP).
  3. Member, Board of Governors, International School of Informatics and Management, Jaipur.

4. Member, Deans Committee, University of Rajasthan, Jaipur

#### **ENTREPRENEURSHIP DEVELOPMENT CELL**

1. Dr. Awadhjesh Bhardwaj, Coordinator appointed as Member Expert Committee, National Science and Technology Entrepreneurship Development Board, DST, Govt. of India.

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

- G.S. Dangayach - Elected as Honorary Secretary of Rajasthan State Center, The Institution of Engineers (India), Kolkata
- G.S. Dangayach - Appointed as Guest Editor of International Journal "Production Planning & Control" published by Taylor & Francis, UK
- G.S. Dangayach - Nominated as Member of "Production Engineering Division Board", The Institution of Engineers, India.

#### **DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING**

Prof. P R Soni: Chaired the seminar on "Refractories for Steel Industry -Challenges & Oppurtunity" at CERAGLASS India 2011, an International Trade Fair & Conference on Ceramics, Glass & Allied Products, Nov. 11-14, 2010, Jaipur.

#### **DEPARTMENT OF CHEMISTRY**

1. Dr. Mukesh Jain : Working as Assistant Editor in an internal journal "Heterocyclic Communications" Published by Freund Publishing House, England.

#### **DEPARTMENT OF STRUCTURAL ENGINEERING**

1. Dr. M. K. Shrimali, Chairman of Technical Sessions 4A&B on Structures at Dhule (MS) in International Conference on Sunrise Technologies (i-COST) 2011.
2. Dr. S.K. Tiwari, Honoured by Director, MNIT for preparation of annual report

### **11.9 PUBLICATIONS AND RESEARCH PAPERS IN CONFERENCES ETC.**

#### **DEPARMENT OF CHEMICAL ENGINEERING**

##### **Research Papers Published in International Journals :**

1. Beeyani, A.K., Singh, K., Vyas, R.K., Kumar, S., and Kumar, S., "Parametric studies and simulation of PSA process for oxygen production from air," Polish Journal of Chemical Technology, 12(2)18-28, 2010. ISSN: 15098117, 18994741
2. Shukla, P., Wang, S., Singh, K., Ang, H.M., Tade, M.O., "Cobalt exchanged zeolites for heterogeneous catalytic oxidation of phenol in the presence of peroxy monosulphate," Applied Catalysis B: Environmental, 99(1-2)163-169, 2010.

3. Sharma, N. and Singh, K., "Control of Reactive Distillation Column: A Review," International Journal of Chemical Reactor Engineering, vol 8, 2010.
4. S. Roy , M. Vashishtha and A. K. Saroha, Catalytic Wet Air Oxidation of Oxalic Acid using Platinum Catalysts in Bubble Column Reactor: A Review, Journal of Engineering Science and Technology Review , Vol. 3, No.1, (April 2010) pp.95-107.(ISSN: 1791-2377)
5. Rajesh Khanna, Narendra Kumar Agnihotri, Manish Vashishtha, Ashutosh Sharma, Prabhat K. Jaiswal and Sanjay Puri, Kinetics of Spinodal Phase Separation in Unstable Thin Liquid Films, PHYSICAL REVIEW E, Vol. 82, July 2010, pp.011601-1 to 011601-5. (Impact Factor: 2.8)
6. Manish Vashishtha, P. K. Jaiswal, R. Khanna, S. Puri and A. Sharma, Spinodal phase separation in liquid films with quenched disorder, PHYSICAL CHEMISTRY CHEMICAL PHYSICS, Vol. 12, September 2010. pp.12964-12968. (Impact Factor: 4.2)
7. Suja George, Prabhat Pandit, A.B. Gupta, "Residual Aluminium in water defluoridated using Activated Alumina Adsorption - Modeling and Simulation Studies", Water Research, 44, 2010, pp 3055-3064.
8. Motwani, Poonam, Vyas, R. K., Maheshwari, Monika and Vyas, Sangeeta, "Removal of Sulfamethoxazole from water by Adsorption and Photolysis," Nature, Environment & Pollution Technology 10(1), pp. 51-58, 2011. ISSN: 0972-6268.
9. Jana, S. K. and Bhaskarwar, A. N., Measurement of Surface-transfer Coefficient Values for CO<sub>2</sub> Absorption in Lime Solutions in Presence of Surfactants. In Press. Canadian Journal of Chemical engineering. DOI:10.1002/cjce.20505 .
10. Jana, S. K. and Bhaskarwar, A. N., Gas Absorption Accompanied by Chemical Reaction in a System of Three-Phase Slurry-foam Reactors in Series. In Press. Chemical Engineering Research and Design Journal. DOI:10.1016/j.cherd.2010.09.011

#### **Research Papers Published in National Journals:**

1. Agarwal, M., Chauhan, G., Chaurasia, S.P., Singh, K., "Solid base catalyst for production of biodiesel from used cooking oil," Journal of Lipid Science & Technology, 42(3)94-97, 2010.
2. Aditi Sharma, Kriti Bhandari and S. P. Chaurasia, "Kinetic study of cod liver fish oil hydrolysis with candida rugosa lipase" Journal of Lipid Science and Technology, 42 (4), 2010.
3. Rohini Gupta, D. Goswami and S. P. Chaurasia, "Ultrafiltration- a Reliable Pretreatment Process for Reverse Osmosis Desalination" Indian Journal of Environmental Protection, 30(4), 2010, pp. 307-311.
4. Madhu Agarwal, Kailash Singh, S. P. Chaurasia, Prediction of biodiesel properties from fatty acid composition using linear regression and ANN techniques, manuscript in Indian Chemical Engineers Journal (Accepted for publication).
5. Srivastava, A., Gupta, A., Vyas, R. K. and Vyas, Sangeeta, "Greywater Treatment and Recycling: A solution for the World's Water Problem," Indian Journal of Environmental Sciences (Accepted for Publication 2010). ISSN: 0971-8958.

### List of Papers Presented at International Conferences:

1. Jain Swati, Vyas, R. K., Pandit, P. and Vyas, Sangeeta, "Occurrence of Antiviral Drugs in Environment and their Detection Techniques", presented at 12th International Conference of International Academy of Physical Sciences (CONIAPS-XII) held at University of Rajasthan, Jaipur, India during December 22-24, 2010, Abstract Booklet, Abstract No. C018, p.193.
2. Madhu Agarwal and Manan Dave, "Biodiesel from microalgaea: Review, Presented in International conference on Renewable Energy (ICRE), held at Jaipur on 17-21 Jan. 2011.
3. Madhu Agarwal and Sunny Soni, Biodiesel production in batch and Continuous reactors, Presented in International conference on Renewable Energy (ICRE), held at Jaipur on 17-21 Jan. 2011.
4. Sharma, N. and Singh, K. "Quadratic dynamic matrix control of isopropyl acetate reactive distillation column," Proceedings of the World Congress on Engineering and Computer Science 2010 Vol II, WCECS 2010, October 20-22, 2010, San Francisco, USA.
5. Jay Thakkar, Ankur Falor, Manish Vashishtha, Recent Advances in Integrated Microfluidic Reactor, International Conference on Emerging Trends in Engineering and Technology, Organized by Biyani International Institute of Engineering and Technology, Jaipur, November 26-27, 2010.
6. Anurag Khandelwal, Esha Bhasin, Divya and Manish Vashishtha, Polymer Clay Nanocomposites: Current Status and Advances. International Conference on Emerging Trends in Engineering and Technology, Organized by Biyani International Institute of Engineering and Technology, Jaipur, November 26-27, 2010.
7. Manish Vashishtha and Sachin Agarwal, Modification in mechanical properties of polymer-clay Nanocomposites. Pure and Applied Chemistry International Conference (PACCON 2011), Organized by Srinakharinwirot University and Chemical Society of Thailand, Bangkok, January 5-7, 2011.
8. George, S. Pandit, P. Gupta, A.B., "Process modeling for estimation of colloidal aluminium in alum treated water during defluoridation", Proceedings of the 2010 International Conference On Environmental Engineering And Applications, ICEEA 2010 by IEEE Xplore, and indexed by INSPEC, Ei Compendex and Thomson ISI. pp:103-106, Digital Object Identifier : 10.1109/ICEEA.2010.5596100.
9. Suja George and Shreya Shivani, "Mathematical Modeling of an Adiabatic Adsorption Tower", Proceedings of the 4th International Conference on Emerging Trends in Engineering and Technology", TechnoBytes10, Jaipur, November 26-27, 2010, pp 94-95.
10. Suja George, Manav Kataria and Krishnamohan, "Use of Saras Diary waste for Electricity generation through Microbial Fuel Cell", Proceedings of the 4th International Conference on Emerging Trends in Engineering and Technology", TechnoBytes10, Jaipur, November 26-27, 2010, pp 93-94.
11. Suja George and A.B.Gupta, "Activated Alumina Defluoridation and Presence of Residual Aluminum in Treated Water", Proceedings of the 4th International Conference on Emerging Trends in Engineering and Technology", TechnoBytes10, Jaipur, November 26-27, 2010, pp 34-35.
12. Kriti Bhandari, S.P. Chaurasia , Alok Gupta, and A.K. Dalai, "Enzymatic Hydrolysis of Tuna Fish Oil with *Candida rugosa* Lipase," 60th Canadian Chemical Engineering Conference Proceedings,

Saskatoon, SK, Canada, Oct. 2010.

13. R. Dhabhai, S. P. Chaurasia and A. K. Dalai, "Effect of Dilute Acid Steam Pretreatment on Structural Properties and Enzymatic Hydrolysis of Canadian Wheat Straw", 60th Canadian Chemical Engineering Conference Proceedings, Saskatoon, SK, Canada, Oct. 2010.
14. Kriti Bhandari, S. P. Chaurasia, A. K. Dalai, and Alok Gupta, "Purification of Docosahexaenoic Acid (DHA) by Lipase catalysed Selective Esterification from Fatty Acid Mixture of Tuna Fish oil", 65th OTAI Annual Convention, International seminar & Expo on Oils, Fats Oleochemicals: Food Security, Green Energy & Environment, New Delhi, India, 3-5 Dec.2010.
15. Neelima Tripathi, Kriti Bhandari, Aditi Sharma and S. P. Chaurasia, "Enrichment of Tuna Fish oil with DHA using Chemical Transesterification", at 65th OTAI Annual Convention, International seminar & Expo on Oils, Fats Oleochemicals: Food Security, Green Energy & Environment, New Delhi, India, 3-5 Dec.2010.
16. Garvita Singh, Neha Bajpai, Madhu Agarwal and S. P. Chaurasia "Saccharification of Lignocellulosic Materials for Bioethanol Production", at International conference on renewable energy, Rajasthan University Jaipur India, 17-21, Jan. 2011.
17. Aditi Sharma, Neelima Tripathi and S. P. Chaurasia, "Production of Hydrogen Gas from Glycerol", International Conference on Renewable Resources, Rajasthan University, Jaipur, 17-21, January 2011.
18. Madhu Agarwal, Garima Chauhan and S. P. Chaurasia, "Heterogeneous Catalyst for Biodiesel Production: A Review", International Conference on Renewable Resources, Rajasthan University, Jaipur, 17-21, January 2011.
19. Garima Chauhan, Madhu Agarwal and S. P. Chaurasia, "Study of Catalytic Behavior of KOH as Homogenous and Heterogeneous Catalyst for Biodiesel Production.", International Conference on Renewable Resources, Rajasthan University, Jaipur, 17-21, January 2011.
20. Anjali Jain, Neha Bajpai, Prachee Misra and S. P. Chaurasia "Effect of Solvent on Saccharification of Sweet Sorghum with Cellulase from *Aspergillus niger*", at International conference on renewable energy, Rajasthan University Jaipur India, 17-21, Jan. 2011.

#### **List of Papers Presented at National Conferences**

1. Jain Swati, Vyas, R. K., Pandit, P. and Vyas, Sangeeta, "Occurrence of Antiviral Drugs in Environment and their Removal: A Review", accepted for Poster presentation at Indian Chemical Engineering Congress (CHEMCON) held at Annamalainagar, Tamil Nadu, India during December 27-29, 2010 and abstract published in Conference Proceedings, p.392.
2. Jain Swati, Vyas, R. K., Pandit, P. and Vyas, Sangeeta, "Adsorption of Antiviral Drug Acyclovir on Activated Carbon: Equilibrium Studies," presented at the 2nd Conference on Advances in Chemical Engineering (AChemE 2011) held at Thapar University, Patiala, India during 27-28th Feb., 2011 and published in the Proceedings, P. K. Bajpai and H. Bhunia (Eds.), Macmillan Publishers, New Delhi, pp. 236-241.
3. Bhatt, Parul, Vyas, R. K., Pandit, P. and Vyas, Sangeeta, "Electro-Coagulation of Textile Dye Wastewater: A Review on Future Perspective," presented at the 2nd Conference on Advances in Chemical Engineering (AChemE 2011) held at Thapar University, Patiala, India during 27-28th

- Feb., 2011 and published in the Proceedings, P. K. Bajpai and H. Bhunia (Eds.), Macmillan Publishers, New Delhi, pp. 267-273.
4. Maheshwari, Monika, Vyas, R. K., and Motwani, P., "Comparison of Kinetics for adsorption of Ciprofloxacin Hydrochloride and Sulphamethoxazole on GAC," presented at the 2nd Conference on Advances in Chemical Engineering (AChemE 2011) held at Thapar University, Patiala, India during 27-28th Feb., 2011 and published in the Proceedings, P. K. Bajpai and H. Bhunia (Eds.), Macmillan Publishers, New Delhi, pp. 406-413.
  5. S.P. Chaurasia, Madhu Agarwal, and Manan Dave, "Adsorption of Formaldehyde on treated activated carbon and natural adsorbents, Presented in national Conference on "Advances in Chemical Engineering" during Feb 27-28, 2011 (AChemE 2011) held at Thapar University, Patiala 147004 (Pb), India.
  6. Sharma, N. and Singh, K., "Sensitivity analysis of reactive distillation column for isopropyl acetate synthesis", in Proceedings of National Symposium on Reaction Engineering, NIT Raipur, Jan 22-23, 2010.
  7. Patel, S.K. and Singh, K., "Modeling and simulation of Fischer-Tropsch reactor for higher hydrocarbon production", in Proceedings of National Symposium on Reaction Engineering, NIT Raipur, Jan 22-23, 2010.
  8. Sharma N. and Singh, K., "Dynamic simulation and sensitivity analysis of reactive distillation column for isopropyl acetate synthesis," in Proceedings of ChEmference, IIT Kanpur, July 13-14, 2010.
  9. Dohare, R.K., Singh, K., Kumar, R., "Sensitivity analysis of divided wall distillation column," CHEMCON-2010, Annamalainagar, Chidambaram, 27-29 December 2010.
  10. Upadhyaya, S., Singh, K., Chaurasia, S.P., Jha, C.K., "Modeling and simulation of vacuum membrane distillation for desalination" CHEMCON-2010, Annamalainagar, Chidambaram, 27-29 December 2010.
  11. Jana, S. K., Prediction of parameter values required for the simulation of a slurry-foam reactor, Advances in Chemical Engineering 2011, Thapar University, February 2011. (abstract accepted)
  12. Jana, S. K., Agrawal, V., Jha, J. and Mann, D., Gas Absorption Accompanied by Chemical Reaction in a Foam-bed Reactor, CHEMCON 2010, Annamalai University, Annamalainagar-608002, December 27-29, 2010. (abstract published).
  13. Sharma, N. and Singh, K., "Sensitivity analysis and model predictive control of reactive distillation column for TAME synthesis," CHEMCON-2010, Annamalainagar, Chidambaram, 27-29 December 2010.
  14. Suja George, Manav Kataria, Krishna Mohan, "Electricity Generation in a Microbial Fuel cell using Dairy Waste", Proceedings of the Emergence of Biotechnology in Process Industry - A sustainable growth and clean world, Indian Chemical engineering Congress, 63rd Annual session of the Indian Institute of Chemical Engineers, CHEMCON-2010, Annamalai Nagar, December 27-29, 2010, pp.
  15. Kriti bhandari, Alok Gupta and S. P. Chaurasia "Candida rugosa Lipase Catalyzed Hydrolysis of Indian Tuna Fish Oil", at Conference on Advances in Chemical Engineering (AChemE 2011), Thapar University Patiala- 147004, Punjab India, 27-28, Feb 2011.

16. Neha Bajpai, Anjali Jain, Ravi Dhabhai, Garvita Singh, and S.P.Chaurasia "Saccharification of Sorghum With Cellulase From Trichoderma viridae in Presence of Solvent", at Conference on Advances in Chemical Engineering (AChemE 2011), Thapar University Patiala- 147004, Punjab India, 27-28, Feb 2011.
17. Kriti Bhandari, Alok Gupta, and S.P. Chaurasia, "Candida rugosa Lipase Catalyzed Hydrolysis of Indian Tuna Fish Oil", CHEMCON, Annamalai University, Tamilnadu, India, Dec.2010.
18. Garvita Singh, Neha Bajpai, Madhu Agarwal and S. P. Chaurasia "Synthesis and Characterization of Biodiesel from Fish Oil Using Lipase", at CHEMCON, Annamalai University, Tamil Nadu India, Dec. 2010.
19. Neelima Tripathi, Aditi Sharma, S. P. Chaurasia and Madhu Agarwal , "Arsenic Removal from Water using Biosorbents", at CHEMCON, Annamalai University, Tamil Nadu India, Dec. 2010.

### Books Published

S. No.	Title	Author	Publisher
1.	Environmental Engineering & Disaster Management 4 <sup>th</sup> edition, ISBN: 978-81-88870-39-4	Vyas, R. K., Goyal, Sunita, Vyas, Sangeeta, and Sharma, Gaytri	Genius Publications (India), Jaipur

### DEPARTMENT OF CIVIL ENGINEERING

#### Research Papers Published in International Journals:

1. Suja George, Prabhat Pandit, A.B. Gupta and Madhu Agarwal. Residual Aluminium in water defluoridated using Activated Alumina Adsorption - Modeling and Simulation Studies. Accepted for publication in Water Research, 2010.
2. S.B Patil, A.K.Vyas, A.B. Gupta (2010) Environmental Assessment of Bituminous Mixes Containing Imperial Smelting Furnace (ISF) Slag. The Journal of Solid Waste Technology and Management, Volume 36, No. 4, 220-226, USA.
3. Shashidhara S.M.S., Vyas A.K. [2010], Porosity related durability of cement concrete with isf slag as fine aggregate, International Journal for Applied Engineering Research (IJAER), 5 (10) , 1675-1687.

#### Research Papers Published in National Journals:

1. Dinesh. Kumar, Neha Tyagi and A.B.Gupta. Management of drinking water quality at MNIT Jaipur - a case study. Accepted for publication in Nature, Environment and Pollution Technology, 10(1),155-158,2010.
2. Sharma S., Mathur Sanjay, Sharma R.; Efficacy of Electrocoagulation in Textile Wastewater treatment; Nature Environment & Pollution Technology

## List of Papers Presented at International Conferences :

1. A. B. Gupta and Nivedita Kaul Indoor Air Quality Due To Different Kitchen Fuels And Its Impact On Human Respiratory Health - A Case Study, presented at Indo-French Seminar on "Indoor Air Quality: Monitoring, Prediction, Exposure Assessment and Cleaning, Nantes, France, 31st May - 3rd June 2010.
2. Suja George, Prabhat Pandit and A.B. Gupta. Process Modeling for Estimation of Colloidal Aluminium in Alum treated water during Defluoridation, International Conference on Environmental Engineering and Applications, ICEEA 2010, Singapore, September 10-12, 2010. The paper was presented by a co-author.
3. Sunil Gupta, R.C. Gupta, A. B. Gupta, EVS Prakasa Rao, K. Puttanna and Aditi Singhvi. Pathophysiology of nitrate toxicity and its mitigation measures. Presented (by a co-author) in the plenary session at the 5th international nitrogen conference N2010, December 3-7, 2010, ND, India. Abstract was published in the proceedings on page 13.
4. A. B. Gupta, Sunil K. Gupta, B. S. Jajoo, Ashok Kadaverugu. Synergistic effect of fluoride and aluminium in manifestation of fluorosis- a case study of (Chaksu) Jaipur, India. The 1st Environment Asia International Conference, Bangkok, THAILAND March 22- 25, 2011.
5. Dinesh. Kumar, Neha Tyagi and A.B. Gupta. Selective Action of Chlorine Disinfection on Different Coliforms and Pathogens Present in Secondary Treated Effluent of STP, International Conference on Environmental Science and Development - ICESD 2011, January 7-9, 2011, Mumbai, India. The paper was presented by me and was published in the proceedings at pp 179-184.
6. S. Naidu, P.K. Nanda, Pawan Kalla, P.K. Kanchan & K. Sitaramnjaneyulu, "Pavement Maintenance Management System for Urban Roads Using Software HDM-4 - A case study" IRC Journal No. 66 (3), page 642-668, 2005.
7. Pawan Kalla, Arun Gaur, Manish Rotwal & Gaurav Agarwal, "Soil Stabilization with Kota Stone Slurry and Fly Ash", IRC Highway Research Bulletin 75, page 37-42, 2006.
8. Patil, S.B., A.B. Gupta, A.K. Vyas, A.N. Arora & Pawan Kalla, "Influence of Imperial Smelting Furnace Slag Aggregate on Properties of Bituminous Mixes", IRC Vol.37 (2) Indian Highways, page 33-39, 2009.
9. Anurag Misra, C.B. Mathur, Pawan Kalla & Govind Sahay Meena, "Strength and Absorption Studies on Concrete Containing Wollastonite", IRC Vol.37 (3) Indian Highways, page 33-38 2009.
10. Goyal, R., Khandelwal, S. and Kaul, N. (2011). "Analysis of Relative Importance of Parameters Representing Vegetation, Urbanization and Elevation with Land Surface Temperature using ANN", Geospatial World Forum, 18-21 Jan., Hyderabad.
11. Khandelwal, S., Goyal, R., Kaul, N. and Singhal, V. (2011). "Study of Land Surface Temperature Variations with Distance from Hot Spots for Urban Heat Island Analysis", Geospatial World Forum, 18-21 Jan., Hyderabad.
12. Khandelwal, S. and Goyal, Rohit (2010). "Analysis of Land Surface Temperature Variations due to Fire at Oil Terminal, Jaipur, India", 30th EARSeL Symposium "Remote Sensing for Science, Education and Natural and Cultural Heritage", Paris, France, 31st May - 3rd June.

13. Khandelwal, S. and Goyal, Rohit (2010). "Effect of Vegetation and Urbanization over Land Surface Temperature: Case Study of Jaipur City", 30th EARSeL Symposium "Remote Sensing for Science, Education and Natural and Cultural Heritage", Paris, France, 31st May - 3rd June.

#### **List of Papers Presented at National Conferences**

1. A.B. Gupta Integrated water resources management- a special emphasis on drinking water quality and health issues, 14th National Symposium on Hydrology, Management of Water Resources under Drought Situation. MWRDS-2010, December 21-22, 2010, Jaipur.
2. Vijai Singhal, Rohit Goyal, Sumit Khandelwal, Nivedita Kaul and A.B. Gupta: Ground Water Pollution at Pali- Historical Perceptive and Future Research Needs, 14th National Symposium on Hydrology, Management of Water Resources under Drought Situation. MWRDS-2010, December 21-22, 2010, Jaipur. 3. A.B. Gupta. Biological removal of nitrogen from sewage- Some recent advances, National Conference on Biological wastewater treatment towards green environment BWTGE 20, January 28-29, 2011, NIT Calicut, India.
4. A. B. Gupta, New challenges of drinking water quality for Public Health Engineers of Rajasthan, presented at All India seminar on Innovative construction technology and materials, February 26, 2011, IE(I), Alwar. The text was published in the proceedings.
5. Nivedita Kaul , Gaurav Singh , A.B. Gupta and Sumit Khandelwal. Indoor Air Pollution in Urban Indian Kitchens, presented by co-author at All India seminar on Innovative construction technology and materials, February 26, 2011, IE(I), Alwar. The text was published in the proceedings.
6. Shashidhara S.M.S., Vyas A.K., "Properties of Cement Concrete with Imperial Smelting Furnace Slag as Replacement of Sand" , Indian Concrete Journal., November 2010, 41-49.
7. Anurag Misra, Pawan Kalla, Yog Bahadur Chad, "Strength Properties of Wollastonite Added Concrete", Institution of Engineers India, 2010.
8. Prithvi Singh Kandhal, Ankur Singh, A.N.Arora, Pawan Kalla, "Cold Mix Patching - A Quick Solution For Filling Potholes", Road infrastructure and traffic planning in Jaipur city, KITE Sitapura, Jaipur, January 2011.

#### **DEPARTMENT OF COMPUTER ENGINEERING**

##### **Research Papers Published in International Journals:**

1. Dinesh Gopalani, M. C. Govil, "Interpreter for Untyped Imperative Object Calculus", International Journal of Intelligent Information Processing (ISSN: 0973-3892), 4(1):79-82, 2010.

##### **List of Papers Presented at International Conferences:**

1. Vinod P., V. Laxmi and M.S.Gaur, Metamorphic Malware Analysis and Detection Methods, IGI Edited Book Chapter, Cyber Security, Cyber Crime and Cyber Forensics: Applications and Perspectives, pp 178-202, DOI: 10.4018/978-1-60960-123-2.ch013
2. Vinod P., V. Laxmi and M.S.Gaur, Mnemonics as predictor for Malware Analysis, In IEEE International Conference on Advances in Communication Network and Computing CNC 2010, October 04-05, Calicut, Kerala, pp 366--368.

3. Vinod P. and Jain, Harshit and Golecha, Yashwant K. and Gaur, Manoj Singh and Laxmi, Vijay, MEDUSA: MEtamorphic malware dynamic analysis usingsignature from API, Proceedings of the 3rd international conference on Security of information and networks, SIN '10, Taganrog, Rostov-on-Don, Russian Federation, pp 263-269, Sept 7-11, 2010.
4. Vinod P., V.Laxmi, M.S.Gaur and Grijesh Chauhan, Malware Analysis using Non-Signature based Method, In Proceeding of IEEE International Conference on International Conference on Network Communication and Computer ICNCC 2011, March 21-23, New Delhi, pp 427-431.
5. Vinod P., V.Laxmi, M.S.Gaur, Scattered Feature Space for Malware Analysis, In Proceedings of International Conference on Advances in Computing and Communication, ACC 2011, July 22-24, pp 562-571, Kochi, Kerala.
6. Chhagan Lal, Vijay Laxmi , Rajbir Kaur, "QoS-aware Routing Protocols in Mobile Ad-hoc Networks - A Survey", International Conference on Electronics, Information and Communication Systems Engineering 2011, MBM Jodhpur.
7. Kaur, R.; Gaur, M.S.; Laxmi, V.; , "A Novel Attack Model Simulation in DSDV Routing", 4th IFIP International Conference on New Technologies, Mobility and Security (NTMS), 7-10 Feb. 2011.
8. Rajbir Kaur, M.S.Gaur, Lalith Suresh and V.Laxmi, "DoS Attacks in MANETs: Detection and Countermeasures", Book Chapter in IGI Edited Volume on Cyber Crime and Cyber Forensics: Applications and Perspectives (2011). pp. 124 - 145.
9. Suresh, Lalith P. Rajbir Kaur, MS Gaur, V. Laxmi, "Collusion Attack Resistance Through Forced MPR Switching in OLSR", IFIP Wireless Days 2010, pp. 1 - 5.
10. Lalith Suresh P, Rajbir Kaur, M.S.Gaur, V.Laxmi, "A Collusion Attack Detection Method for OLSR-Based MANETs Employing Scruple Packets", ACM 3rd International Conference on Security of Information and Networks, SIN 2010, pp. 256 - 262.
11. H. Meena Sharma, Rajbir Kaur, M. S. Gaur, "Simulating Broken Link Fraud in DSDV", International Conference on Electronics, Information and Communication Systems Engineering 2011, MBM Jodhpur.
12. Ramprasad Jat, Preety Singh, V. Laxmi, "Effect of Windowing on Automatic Speech Recognition", UGC/AICTE International Conference on Electronics, Information and Communications Systems Engineering (ICEICE2010), Jodhpur. (28-30 March, 2011)
13. Preety Singh, Ramprasad Jat, Dr. V. Laxmi, Dr. M.S. Gaur, "n-Gram Modeling for Visual Speech Recognition", TENCON,2010, IEEE Region 10 Conference, Fukuoka, Japan (IEEE), pp. 2269-2274. (Nov 2010)
14. Preety Singh, Dr. V. Laxmi, Deepika Gupta, Dr. M.S.Gaur, "Lipreading Using n-gram Feature Vector", 3rd International Conference on Computational Intelligence in Security for Information Systems (CISIS '10), Leon, Spain (Springer-Verlag), pp.81-88. (Nov 2010)
15. Deepika Gupta, Preety Singh, Dr. V. Laxmi, Dr. M.S.Gaur, "Comparison of Parametric Visual Features For Speech Recognition", International Conference on Network Communication and Computer (ICNCC 2011), New Delhi (IEEE), pp 432-435. (March 21-23, 2011)
16. Preety Singh, Deepika Gupta, Dr. V. Laxmi, Dr. M.S.Gaur, "Contribution of Oral Periphery on Visual Speech Intelligibility", First International Conference on Advances in Computing and Communications (ACC 2011), Kochi, Springer. (Accepted)

17. Deepika Gupta, Preety Singh, Dr. V. Laxmi, Dr. M.S.Gaur, "Boundary Descriptors for Visual Speech Recognition," 26th International Symposium on Computer and Information Sciences (ISCIS 2011), Royal Society of London, London, UK, Springer. (Accepted)
18. Jyoti Grover, Deepak Kumar, Sargurunathan M, M.S Gaur, V. Laxmi "Performance Evaluation and Detection of Sybil Attacks in Vehicular Ad-Hoc Networks", In The First International Workshop on Trust Management in P2P Systems (IWTMP2PS 2010), (Springer), Chennai, India.
19. Jyoti Grover, M.S Gaur, V. Laxmi "A Novel Defense Mechanism against Sybil Attacks in VANET", 3rd International Conference on Security of Information and Networks (SIN 2010), 7-11 September 2010, (ACM Digital Library), Taganrog, Russia ISBN 978-1-4503-0234.
20. Jyoti Grover, Nitesh Prajapati, M.S Gaur, V. Laxmi "RSS-based Sybil Attack Detection in VANETs", TENCON2010 (IEEE), 21-24 November, Fukuoka, Japan.
21. Jyoti Grover, Nitesh Prajapati, V. Laxmi, "Implementation of Temporal Attacks in Vehicular Ad Hoc Networks" International Conference on Electronics, Information and Communication Systems Engineering (ICEICE 2010) 28-30 March, Jodhpur, India.
22. Jyoti Grover, M.S Gaur, V. Laxmi "Position Forging Attacks in Vehicular Ad Hoc Networks: Implementation, Impact and Detection " 7th International Wireless Communications and Mobile Computing Conference (IWCMC 2011), 5-8 July 2011 (IEEE), Istanbul, Turkey.
23. Navaneeth Rameshan; Manoj Gaur; Mushtaq Ahmed; and Vijay Laxmi. "Minimal path, Fault Tolerant Routing in 2-D Mesh NoC", VDAT 2010, the 14th IEEE VLSI Design And Test Symposium (VDAT), Himachal Pradesh India July 7-9, 2010.
24. Naveen Choudhary, MS Gaur, V. Laxmi, Virendra Singh. "Genetic Algorithm for Application Specific NoC Topology Generation", IEEE International Symposium on Circuits and Systems (ISCAS'10), 30 May - 2 June, Paris, France, 2010.
25. Roopali Goyal, Sakshi Vijay, Shweta Agarwal, V.Laxmi, MS Gaur. "Difference Steg-Analysis for LSB Embedding in Images". IEEE International Conference on Computer Design and Applications (ICCD). Qinhuangdao, Hebei, China, June 25-27, 2010.
26. Navaneeth Rameshan, V. Laxmi, MS Gaur, M. Ahmed, KK Paliwal. "Minimal Path, Fault Tolerant, QoS-aware Routing with Node and Link Failures in 2D Mesh NoC", DFTS-2010, Kyoto, Japan, Oct. 6-8, 2010.
27. Vijay Laxmi, Varsha Sharma, Rekha Agarwal, M. S. Gaur, Vineetha V. "Power Performance Measurement for 2-D Mesh for Network on Chip", TENCON - 2010, Japan.
28. Varsha Sharma, Rekha Agarwal, Manoj S. Gaur, Vijay Laxmi, and Vineetha V. "ERA: An Efficient Routing Algorithm for Power, Throughput and Latency in Network-on-Chips", IFIP International Conference on Network and Parallel Computing (NPC'10). September 13-15 , 2010. Zheng Zhou, China.
29. V. Laxmi, R. Chuggani, MS Gaur, P. Khandelwal, P. Bansal.; "Traffic characterization for multicasting in NoC", The Nordic Microelectronics event 28th Norchip Conference, Tampere, Finland, 15-16 November 2010.
30. N. Choudhary, MS Gaur, V. Laxmi, V. Singh.; "Energy aware design methodologies for application specific NoC", The Nordic Microelectronics event 28th Norchip Conference, Tampere, Finland, 15-16 November 2010.

31. Navaneeth Rameshan, Mark Zwolinski, Vijay Laxmi, Manoj Singh Gaur, Virendra Singh, Lalith P. "Acceleration of Functional Validation Using GPGPU", 6th International Symposium on Electronic Design, Test and Applications (DELTA 2011) Rydges Lakeland Resort, Queenstown, New Zealand, 17 - 19 January 2011.
32. Naveen Chaudhary, Manoj Singh Gaur, Vijay Laxmi, Virendra Singh. "Traffic Aware Topology Generation Methodology for Application Specific NoC, Roopesh Chuggani", 6th International Symposium on Electronic Design, Test and Applications (DELTA 2011) Rydges Lakeland Resort, Queenstown, New Zealand, 17 - 19 January 2011
33. Manoj Singh Gaur, Vijay Laxmi, Pankaj Khandelwal, Prateek Bansal. "A Traffic Model for Concurrent Core Tasks in Networks-on-Chip", 6th International Symposium on Electronic Design, Test and Applications (DELTA 2011) Rydges Lakeland Resort, Queenstown, New Zealand, 17 - 19 January 2011
34. R. Gunjan, Saurabh Maheshwari, MS Gaur, V. Laxmi "Permuted Image DCT Watermarking", CISIS2010, 3rd International Conference on "Computational Intelligence in Security for Information Systems, Spain, Springer, vol. 85, pp. 163-171, Nov 11-12, 2010
35. R. Gunjan, Saurabh Maheshwari, V. Laxmi, MS Gaur. "A DCT based Permuted Image Digital Watermarking method", TENCON2010, Fukuoka International Congress Centre, Fukuoka, Japan, IEEE, WIE-4-P2, vol. 10, pp. 2264-2268, Nov 21-24, 2010
36. R. Gunjan, MS Gaur, V. Laxmi. "Robust Watermarking through Spatially Disjoint Transformations", in International Conference on Advances in Computing and Communications (ACC-2011), to be held in RSET, Kochi, Kerala, India on July 22-24, 2011 (Accepted).
37. Chhagan Lal, Vijay Laxmi, Manoj Singh Gaur, "A Rate Adaptation Scheme to Support QoS for H.264/SVC Encoded Video Streams over MANETs", 3rd International Conference on Advanced Communication and Networking (ACN-2011), Brno University, Czech Republic. (Accepted)
38. Chhagan Lal, Vijay Laxmi, Manoj Singh Gaur, "Analysis of a Traffic Classification Scheme for QoS Provisioning over MANETs", First International Conference on Advances in Computing and Communications (ACC-2011), Kochi, Kerela, India. (Accepted)
39. Rajbir Kaur, Vijay Laxmi, Manoj Singh Gaur, "Detection of Broken Link Fraud in DSDV Routing", 26th International Symposium on Computer and Information Sciences, ISCIS'2011. (Accepted)
40. H. Meena Sharma, Rajbir Kaur, Manoj Singh Gaur, Vijay Laxmi, "Broken Link Fraud in DSDV Routing - Detection and Countermeasure ", First International Conference on Advances in Computing and Communications (ACC-2011), Kochi, Kerela, India. (Accepted)
41. Manish Kumar, Rajbir Kaur, Vijay Laxmi, Manoj Singh Gaur, "A Novel Attack Model Simulation in OLSR", First International Conference on Advances in Computing and Communications (ACC-2011), Kochi, Kerela, India. (Accepted)
42. Jyoti Grover, Nitesh Prajapati, M.S Gaur, V. Laxmi "Machine Learning Approach for Multiple Misbehavior Detection in VANET" International Conference on Advances in Computing and Communications (ACC 2011), 22-24 July 2011, Kochi, India (accepted)

## List of Papers Presented at National Conferences

1. Rajbir Kaur, Lalith Suresh P, M.S.Gaur, V.Laxmi, "Attacks in Destination Sequence Distance Vector (DSDV) Routing Protocol", UGC National Conference on New Advances In Core Computing and Their Challenges (NACCTC2010), M.B.M Engineering College, JNVU, Jodhpur.

## Book Chapter

1. Jyoti Grover, M.S Gaur, V. Laxmi "Sybil Attack in VANET: Detection and Prevention", In Book Chapter: Security of Self-Organizing Networks: MANET, WSN, WMN, VANET, ISBN: 978-1-4398-1919-7, Auerbach Publications, CRC Press, Taylor & Francis Group, USA, 2010.
2. Preety Singh, Dr. V. Laxmi Dr.M.S.Gaur, "Speechreading using Modified Visual Feature Vectors", communicated to IGI-Global Book Chapter on Emerging Applications of Natural Language Processing: Concepts and New Research.

## DEPARTMENT OF ELECTRICAL ENGINEERING

### Research Papers Published in International Journals:

1. R. A. Gupta, A. K. Wadhvani and S. R. Kapoor, "Early Estimation of Faults in Induction Motors Using Symbolic Dynamics Based Analysis of Stator Current Samples", IEEE Transaction on Energy Conversion, vol. PP, no.99, pp.1-13, Jan2011.
2. R.A. Gupta, Rajesh Kumar, S.V. Bhangale, "18-Sector Switching Strategy for Torque Ripple Reduction of Direct Torque Controlled Induction Motor Drive", International Journal of Power Electronics, Vol: 3, No. 1, 2011, 26-41. (Best Paper Award)
3. Mahendra Lalwani, Mool Singh, "Conventional and Renewable Energy Scenario of India: Present and Future", published in "Canadian Journal on Electrical and Electronics Engineering", Vol. 1, No. 6 (2010), pp. 122-140, ISSN 1923-0540.
4. R. Phadke, Manoj Fozdar and K. R. Niazi, "Robust tuning of fixed parameter Static VAR Compensator controller for damping inter-area oscillations in power system," Electrical Power Components System, vol.38, No. 8, pp. 974-955, 2010.
5. R. Phadke, Manoj Fozdar, K. R. Niazi, N. Mithulananthan and R. C. Bansal, "Online monitoring of proximity to voltage collapse using a new index based on local signals," Electric Power Components and Systems (Accepted for publication).
6. R. Phadke, Manoj Fozdar, K. R. Niazi, R. C. Bansal and N. Mithulananthan, "A New technique for computation of closest Hopf bifurcation point using real coded genetic algorithm," IET Gen. Trans. Dist. (Accepted for publication).
7. K. Dangi, K.R.Niazi, R.C.Bansal, : "Application of Neural Networks for Power System Security Evaluation", International Journal of Electrical Energy Systems, Volume 2, Number 1, January-June 2010, pp. 35-47.
8. Nikhil Gupta, Anil Swarnkar, K. R. Niazi, and R. C. Bansal "Multi-objective reconfiguration of distribution systems using adaptive genetic algorithm in fuzzy framework", IET Gener. Transm. Distrib., 2010, vol. 4, issue 12, pp. 1288-1298
9. Nikhil Gupta, Anil Swarnkar and K. R. Niazi, "Reconfiguration of Distribution Systems for Real Power Loss Minimization Using Adaptive Particle Swarm Optimization", Electric Power

Components and Systems, 2011, vol. 39, issue 4, pp. 317-330.

10. Anil Swarnkar, Nikhil Gupta, K. R. Niazi, "A novel codification for meta-heuristic techniques used in distribution network reconfiguration", *Electric Power System Research*, 2011, vol. 81, pp. 1619-1626.
11. Anil Swarnkar, Nikhil Gupta, K. R. Niazi, "Adapted ant colony optimization for efficient reconfiguration of balanced and unbalanced distribution systems for loss minimization", Accepted in *Swarm and Evolutionary Computation* (Elsevier), In Press
12. Kusum Dangi, K. R. Niazi, R. C. Bansal, "Application of Neural Networks for Power System Security Evaluation" *International Journal of Electrical Energy Systems* Volume 2, Number 1, January-June 2010, pp. 35-47.
13. K. R. Niazi, M. R. Farooqi, C. M. Arora, S.L.Surana "Distribution feeder reconfiguration for loss minimization using load flow", *International Journal of Power and Energy Systems*, Vol. 31 No. 2011.
14. Mahendra Lalwani, Mool Singh, "Analysis of Single Phase Self-Excited Induction Generator with one winding for obtaining constant output voltage", published in "*International Journal of Electrical Engineering*", Vol. 4, No. 2 (2011), pp. 173-181, ISSN 0974-2158.
15. Mahendra Lalwani, D.P. Kothari, Mool Singh, "Solar Photovoltaics Scenario in India: Present & Future", published in "*Journal of Electrical and Mechanical Engineering*", Vol. 2, No.1 (2011), pp. 1-12, ISSN 2010-1791.
16. Mahendra Lalwani, Mool Singh, "Investigation of Solar Photovoltaic Simulation Softwares", published in "*International Journal of Applied Engineering Research, Dindigul*", Vol. 1, No. 3 (2010), pp.585-601, ISSN 0976-4259.
17. H.P. Tiwari and Sunil Kumar Gupta, "DC Energy Storage Scheme for DVR Voltage Sag Mitigation System", *International Journal of Computer Theory and Engineering*, ISSN: 1793-8201, Vol.2, no.3, pp. 313-318, June 2010.
18. H.P. Tiwari and Sunil Kumar Gupta, "Dynamic Voltage Restorer Based on Load Condition", *International Journal of Innovation, Management and Technology*, ISSN: 2010-0248, Vol.1, no.1, pp. 75-81, April 2010.
19. H.P. Tiwari and Sunil Kumar Gupta, "DVR Based Fuel Cell: An Innovative Backup System", *International Journal of Environmental Science and Development (IJESD)*, ISSN: 2010-0264, Vol.1, pp. 73-78, April 2010.
20. Harpal Tiwari, Lata Gidwani, "Wind Energy- Present Scenario", *Electrical India Magazine*, Vol. 50, No.4, pp.68-77, April 2010.
21. H.P. Tiwari and Sunil Kumar Gupta, "Dynamic Voltage Restorer Against Voltage Sag", *International Journal of Innovation, Management and Technology (IJIMT)*, ISSN: 2010-0248, Vol.1, no.3, pp. 232-237, Aug. 2010.
22. H.P. Tiwari, "Capacitor Rating Selection for Voltage Sag Compensation in DVR System", *International Journal of Innovation, Management and Technology*, ISSN: 2010-0248, Vol.1, no.3, pp. 295-299, Aug. 2010.

23. R. M. Farouk, R. Kumar, K. A. Riad, "Iris matching using multi-dimensional artificial neural network", *IET Computer Vision*, Vol: 5, Issue 3, 2011, 178-184.
24. Parikshit Yadav, Rajesh Kumar, S. K. Panda, C. S. Chang, "An Improved Harmony Search Algorithm for Optimal Scheduling of the Diesel Generators in Oil Rig Platforms", *Energy Conversion and Management*, Elsevier, 52, 2011, 893-902.
25. Rajesh Kumar, Devendra Sharma, Abhinav Sadu, "A Hybrid Multi-Agent based Particle Swarm Optimization Algorithm for Economic Power Dispatch", *Electrical Power and Energy Systems*, Elsevier, Vol: 33, 2011, 115-123.
26. Himanshu Gothwal, Silky Kedawat, Rajesh Kumar, "Cardiac Arrhythmias Detection In An ECG Beat Signal Using Fast Fourier Transforms and Artificial Neural Network", *Journal of Biomedical Science and Engineering*, Vol: 4, No.4, 2011, 287-294.
27. R.A. Gupta, Rajesh Kumar, S.V. Bhangale, "18-Sector Switching Strategy for Torque Ripple Reduction of Direct Torque Controlled Induction Motor Drive", *International Journal of Power Electronics*, Vol: 3, No. 1, 2011, 26-41. (Best Paper Award)
28. Sandeep Rana, Sanjay Jasola, Rajesh Kumar, "A Review on Particle Swarm Optimization Algorithms and Their Applications to Data Clustering", *Artificial Intelligence Review*, (Available online)
29. Dhiraj Sangwan, Seema Verma, Rajesh Kumar, "An optimized approach for Module Placement in VLSI circuits using Genetic Algorithm", *International Journal of Computational Intelligence and Information Security*, Vol: 2, No. 1, 2011, 4-17.
30. Dhiraj Sangwan, Seema Verma, Rajesh Kumar, "A Genetic Algorithm based Two Phase Fault Simulator for Sequential Circuit", *International Journal of Computer Applications*, Vol: 12, No. 10, 2011, 17-24.
31. R. A. Gupta, Rajesh Kumar, Manoj Gupta, "Continuous Wavelet Transform Applied to Generate Patterns of Phenomena Associated to Power Quality", *International Journal of Computer Applications*, No. 4, 2011, 38-44.
32. J.Dhillon, K. Parsad, Rajesh Kumar, R.S Sikarwar, V.Upadhyay, "Repairing the Gaps in Connectivity of Wireless Sensor Network & WiMAX Using Robots", *International Journal of Technology and Applied Science*, Vol: 2, 2011, 5-11.
33. Sandeep Rana, Sanjay Jasola, Rajesh Kumar, "A sequential approach for data clustering using K-Means and Particle Swarm Optimization Algorithm", *International Journal of Engineering, Science and Technology*, Vol: 2, No. 6, 2010, 167-176.
34. Siddharth Gupta, Rajesh Kumar, S. K. Panda, "A Genetic Algorithm Based Sequential Hybrid Filter for Image Smoothing", *International Journal of Signal and Image Processing*, Vol: 1, No. 4, 2010, 242-248.
35. Rajesh Kumar, Anupam Kumar, "Design of Two-Dimensional Infinite Impulse Response Recursive Filters Using Hybrid Multiagent Particle Swarm Optimization", *Applied Artificial Intelligence*, Vol: 24, No. 4, April 2010, 295-312.
36. Y.P. Mathur, Rajesh Kumar, A. W. Pawde, "A binary particle swarm optimization for generating

optimal schedule of distributary canals", The IES Journal Part A: Civil & Structural Engineering, Vol: 3, No. 2, May 2010, 1-8.

37. Rajesh Kumar, B R Deva Vikram, "Fingerprint Matching using Multi-dimensional ANN", Engineering Applications of Artificial Intelligence, vol.23, 2010, pp. 222-228.
38. R. A. Gupta, Rajesh Kumar, Ajay Kr. Bansal, "Artificial Intelligence applications in Permanent Magnet Brushless DC Motor Drives", Artificial Intelligence Review, Vol: 33, No. 3, 2010, pp. 175-186.
39. Dhiraj Sangwan, Rajesh Kumar, Mukesh Kumar, "A hierarchically defined fault pattern generator using genetic algorithm", International Journal of Adaptive and Innovative Systems, Vol: 1, No. 2, 2010, pp. 139 - 157.
40. Rajesh Kumar, R.A. Gupta, Rajesh S. Surjuse, "High-Performance SVPWM-VCIM Drive with Adaptive Neuro-Fuzzy Speed Controller", International Journal of Computer and Electrical Engineering, Vol: 2, No. 1, 2010, pp. 180-187.
41. R.A. Gupta, Rajesh Kumar, S.K. Bishnoi, "Sensorless Control of Switched Reluctance Motor Drive with Fuzzy Logic Based Rotor Position Estimation", International Journal of Computer Applications, Vol: 1, No.22, 2010, pp. 72-79.
42. Sunil Kumar Gupta, H. P. Tiwari, Rajesh Kumar, "Analysis of Total Harmonics Distortion in DVR Compensated System", Journal of Electrical Engineering, Vol: 10, No. 1, 2010, pp. 27-33.
43. M.Bhadu, Kusum Dangi," Improvement of Transient Stability and Voltage Profile for a Multimachine Power System using STATIC COMPENSATOR (STATCOM)", International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences, Vol.4, Issue1, Jan-June 2011, pp.241-245.

#### **Research Papers Published in National Journals:**

1. R. A. Gupta, A. K. Wadhvani and S. R. Kapoor, "Fault Detection in Three-phase Induction Motors and Induction Drives", Journal of The Institution of Engineers (INDIA), (IE-EL), Kolkata, INDIA, vol. 90, pp. 43-48, March 2010.

#### **List of Papers Presented at International Conferences:**

1. D.P. Kothari, Pushpendra Singh, Mool Singh, "Smart Grid Model" in International conference on "Electrical Power and Energy System" since 26.08.10 to 28.08.10 at MANIT, Bhopal, M.P.
2. Pushpendra Singh, D.P. Kothari, Mool Singh, "Smart Grid Integration for Demand Analysis and Management" in International Conference on "Green Power Generation-Vision 2020" since 10-12 December, 2010 organized by The Institution of Engineers (India)-Anpara Local Centre, Anpara at Hindalco Industries Limited (Renusagar Power Division), Renusagar, Distt. Sonbhadra (U.P.).
3. Pushpendra Singh, D.P. Kothari, Mool Singh, "Net Zero Energy Buildings" in International Conference on "Green City Design, Planning and Management (ICGCDPM)-2011" since 20-22 January, 2011 accepted for publication and presentation at MANIT Bhopal.
4. R. A. Gupta, Rajesh Kumar and Manoj Gupta, "Obtaining Patterns for Identification of Power Quality Disturbances Using Continuous Wavelet Transform", International Conference &

Workshop on Emerging Trends in Technology-2011 (ICWET), Mumbai, Maharashtra, INDIA, , Feb., 25-26, 2011.

5. Ajay Kr. Bansal, R. A. Gupta and Rajesh Kumar, "Fuzzy Estimator for Sensorless PMBLDC Motor Drive under Speed Reversal", India International Conference on Power Electronics-2010 (IICPE2010), NSIT, Delhi, India, paper Id-67, Jan 28-30, 2011.
6. Ajay Kr. Bansal, R. A. Gupta and Rajesh Kumar, "Optimization of Hybrid PV/Wind Energy System using Meta Particle Swarm Optimization (MPSO)", India International Conference on Power Electronics-2010 (IICPE2010), NSIT, Delhi, India, paper Id-68, Jan 28-30, 2011.
7. R. A. Gupta, Rajesh Kumar and Bharat Bhushan Jain, "Performance Analysis of 36-Pulse AC-DC Converter Fed Vector Controlled Induction Motor Drive (VCIMD)", In the Proceeding of International Conference on Electrical Power and Energy Systems (ICEPES-2010), MANIT Bhopal, pp. 422-431, Aug., 26-28, 2010.
8. S. K. Bishnoi, R. A. Gupta and Rajesh Kumar, "Artificial Neural Network Controlled High Performance Switched Reluctance Motor Drive", International Conference on Electrical Power and Energy Systems (ICEPES-2010), MANIT, Bhopal, INDIA, pp. 673-678, Aug., 26-28, 2010.
9. Gidwani Lata and H.P. Tiwari, "Improving Power Quality of Wind Energy Conversion System with Harmonic Filters", Proceedings of International Multiconference of Engineers and Computer Scientists, Hongkong, ISSN: 978-988-19251-2-1, Vol.II, pp. 1016-1021, 16-18 March 2011.
10. Rajeev Kumar, Kailash Singh, Rajesh Kumar, "Sensitivity Analysis of Divided Wall Distillation Column", The Indian Chemical Engineering Congress (CHEMCON - 2010), Annamalainagar, INDIA, December 27-29, 2010.
11. Parikshit Yadav, Rajesh Kumar, S. K. Panda, C. S. Chang, "Improved Harmony Search Algorithm based Optimal Design of Brushless DC Motor", IEEE Conference on Sustainable Energy Technologies (ICSET,10), Kandy, SRI LANKA, December 6-9, 2010.
12. S. Bhuyan, S. Sahoo, R. Kumar, S. K. Panda, "Wireless Energy Transmission to Piezoelectric Component by Flat Spiral Coil Antenna-like Structure", IEEE Conference on Sustainable Energy Technologies (ICSET,10), Kandy, SRI LANKA, December 6-9, 2010.
13. KoKo Win, Xinhui Wu, S. Dasgupta, Wong Jun Wen, Rajesh Kumar, Panda S.K., "Efficient Solar Energy Harvester for Wireless Sensor Nodes", IEEE International Conference on Communication Systems, ICCS -2010, Singapore, November 17-20, 2010.
14. Parikshit Yadav, R. Kumar, S.K. Panda, C. S. Chang, "Optimization of the Power Generation scheduling in Oil-Rig Platforms using Genetic Algorithm", IEEE International Symposium on Industrial Electronics, ISIE- 2010, Bari, ITALY, pp. 2292-2297, July 04-07, 2010.
15. D.C. Hoang, R. Kumar, S.K. Panda, "Fuzzy C-Means Clustering Protocols for Wireless Sensor Networks", IEEE International Symposium on Industrial Electronics, ISIE- 2010, Bari, ITALY, pp. 3477-3482, July 04-07, 2010.
16. D.C. Hoang, Parikshit Yadav, R. Kumar, S.K. Panda, "A Robust Harmony Search Algorithm based Clustering Protocol for Wireless Sensor Networks", IEEE International Conference on Communications, Cape Town, SOUTH AFRICA, pp. 1-5, May 23-27, 2010.

17. Soniya Lalwani, R. Kumar, Priyanka Choudhary, M Krishna Mohan, P Ghosh, Nilama Gupta, "An ABS Algorithm based approach for Multiple Sequence Alignments", International Conference of Women Mathematicians, ICWM-10, Hyderabad, INDIA, (Poster), August 17-18, 2010.
18. Rohit Bhakar, N.P. Padhy, H.O. Gupta, "Development of a flexible distribution reference network," IEEE Power Engineering Society General Meeting, July 2010, Minneapolis, USA (Panel Paper-Super Session).
19. Rohit Bhakar, V.S. Sriram, N.P. Padhy, H.O. Gupta, "Probabilistic game approaches for network cost allocation," IEEE Power Engineering Society General Meeting, July 2010, Minneapolis, USA.
20. Rohit Bhakar, N.P. Padhy, H.O. Gupta, "Reference network development for distribution network pricing," IEEE PES Transmission and Distribution Conference and Exposition, April 2010, New Orleans, Louisiana
21. Anil Swarnkar, Nikhil Gupta, K. R. Niazi, "Reconfiguration of Radial Distribution Systems with Fuzzy Multi-objective Approach using Adaptive Particle Swarm Optimization", IEEE, PES, General Meeting, 2010, Minneapolis, Minnesota, USA, July, 25-29, 2010.
22. Anil Swarnkar, Nikhil Gupta, K. R. Niazi, "Optimal Placement of Fixed and Switched Shunt Capacitors for Large-Scale Distribution Systems using Genetic Algorithms", IEEE International Conference on Smart Grid (ISGT 2010), Gothenberg, Sweden, 10-13 Oct. 2010.
23. Neeraj Sharma, Rakesh Gupta, Dulara Sharma, Anil Swarnkar, Nikhil Gupta, "Estimation and Elimination of Harmonics in Power System using Modified FFT with Variable Learning of ADALINE", 7th International Conference on 'Electrical Power Quality and Supply Reliability 2010' (PQ2010), University of Tallinn, Kuressaare, Tallinn, Estonia (Europe) 1908, 16-18 June 2010.
24. Vinay Kumar Jadoun, Anil Swarnkar, Nikhil Gupta, K. R. Niazi, "Environment Friendly Multi-objective Economic Load Dispatch problem in Fuzzy Framework using Particle Swarm Optimization", Int. Conf. on Electrical Power and Energy Systems, 26-28 Aug. 2010, MANIT, Bhopal, India.
25. Vinay Kumar Jadoun, Anil Swarnkar, Nikhil Gupta, K. R. Niazi, "Environment Friendly Multi-objective Economic Load Dispatch Problem using Particle Swarm Optimization", Int. Conference on Energy Optimization and Control (ICEOC-2010), Aurangabad, India, Organized by Govt. College of Engineering, Aurangabad, 20-22 Sep. 2010.
26. P. Chitaranjan Sharma, Ishaan Pandiya, Dipak Swargari, Kusum Dangi, "MATLAB/GUI Simulation Tool for Power System Fault Analysis with Neural Network Fault Classifier", International Conference on Electrical Power and Energy Systems, MANIT, Bhopal, August 26-28, 2010.
27. M.Bhadu, Kusum Dangi, "GA Based Cost Optimization of STATCOM for Power System Stability Enhancement", International Conference on Electrical Power and Energy Systems, MANIT, Bhopal, August 26-28, 2010.
28. M.Bhadu, Kusum Dangi, "Power System Stability Enhancement of Multimachine Power System Using Static VAR Compensator", International Conference on Energy Optimization And Control, Government College of Engineering, Aurangabad, 20-22 September, 2010.

## List of Papers Presented at National Conferences

1. Anil Swarnkar, Nikhil Gupta, K. R. Niazi, "Minimal Loss Configuration for Large-Scale Radial Distribution Systems using Adaptive Genetic Algorithms", In. Proc. of 16th National Power System Conference on Innovations for Smart Grids (NPSC 2010), Dec 15-17, 2010, Hyderabad, pp. 647-652.
2. Neeraj Sharma, Rakesh Gupta, Dulara Sharma, Anil Swarnkar, Nikhil Gupta, "Estimation of Reactive Power Using ADALINE Neural Networks with Modified Input", IRT - PSPE -2010, 24th - 25th April 2010, organised by Institute of Engineers (India), Jaipur
3. Rakesh Gupta, Neeraj Sharma, Dulara Sharma, Anil Swarnkar, "Estimation and Elimination of Harmonics Power System using FFT and modified W- H Algorithm" IRT - PSPE -2010, 24th - 25th April 2010, organised by Institute of Engineers (India), Jaipur
4. Dulara Sharma, Rakesh Gupta, Neeraj Sharma, Anil Swarnkar, Nikhil Gupta, "Detection of Disturbances in Power System Using ADALINE Network", IRT - PSPE -2010, 24th - 25th April 2010, organised by Institute of Engineers (India), Jaipur
5. Vinay Kumar Jaudon, Anil Swarnkar, Nikhil Gupta, " A review of particle swarm optimization and its applications", IRT - PSPE -2010 24th - 25th April 2010, organised by Institute of Engineers (India), Jaipur
6. Satish Sharma, Rohit Bhakar, "Risk management in electricity markets: A review," National Conference at National Conference on Power and Energy System, 23-24 April, 2011, Rajasthan Technical University Kota.
7. M.Bhadu, Kusum Dangi, " Transient Stability Analysis of a Multimachine Power System", Proceedings of National Conference on Computational Engineering: Modelling, Simulation and Optimisation, CEMSO-2010, Defence Institute of Advanced Techonology, Pune, 8-10 Dec 2010, pp.9-17.

## Books Published

S. No.	Title	Author	Publisher
1	Electrical and Electronics Engineering, 7 <sup>th</sup> Edition Jan. 2011.	H.P. Tiwari	Ashirwad Publication & Distributors, Jaipur
2	Electronic Devices and Circuits-I, 7 <sup>th</sup> Edition Aug. 2011.	H. P. Tiwari and Kamal Malav	Ashirwad Publication & Distributors, Jaipur
3	Electronic Devices and Circuits-II", 6 <sup>th</sup> Edition Jan. 2011.	H. P. Tiwari and Kamal Malav	Ashirwad Publication & Distributors, Jaipur
4	Electromagnetic Field Theory", 7 <sup>th</sup> Edition Jan. 2011.	H. P. Tiwari and Kamal Malav	Ashirwad Publication & Distributors
5.	"Electrical & Electronics Engineering",	K.R.Niazi	Genius Publication, 1Ed-2005, 5Ed 2010

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### Research Papers Published in International Journals:

1. G. Singh, R. P. Yadav, V. Janyani "Ti: LiNbO<sub>3</sub> based Machzehnder interferometric all optical switches: A review" A chapter with "New Advanced Technologies" INTECH Publication, Austria, ISBN: 978-953-307-067-4, pp. 311-322, (2010).
2. G.Singh, Yadav, R. P., Janyani, V. " Design and analysis of a Ti: LiNbO<sub>3</sub> 1×2 digital optical switch using optimized electrode regions" Journal of Opt. Commun., ISSN: 0173-4911, vol. 31 (2), pp. 78-80, (2010).
3. G.Singh, R.P.Yadav, V. Janyani "Optimized digital optical switch using proton-exchanged Lithium Niobate waveguides" Int. Journal of Optical and Photonics, ISSN: 1735-8590, vol. 3, no. 1, (2010).
4. G.Singh, R.P.Yadav, V. Janyani "Design of symmetric & asymmetric 2×2 all optical Ti: LiNbO<sub>3</sub> MZI switches" Int. Journal of Computers and Applications, ISSN 1206-212x, vol. 33, no. 1, pp. 36-40, (2011).
5. G.Singh, S. Bothra, P. Jain, S. Gupta, R.P.Yadav, V. Janyani "High performance Digital Optical Switch" Photonic Letters of Poland, ISSN 094, vol. 3 (1), pp. 38-40, (2011).
6. Ritu Sharma, Vijay Janyani, S. K. Bhatnagar, "Improved Single Mode Property in Elliptical Air Hole Photonic Crystal Fiber" Journal of Modern Optics, 558220 of Taylor and Francis.DOI:10.1080/09500340.2011.
7. Ritu Sharma, Vijay Janyani, S. K. Bhatnagar "Design of Elliptical Air Hole Photonic Crystal Fiber for Endlessly Single Mode Property", International Journal of Photonics (IJP), April 2011, ISSN-0974-2212, of International Research Publication House.
8. Ritu Sharma, Vijay Janyani, Anuradha Sharma "Design of Elliptical Air Hole PCF with Hybrid Square Lattice for High Birefringence and a Lower Zero Dispersion Wavelength, International Journal of Computer Science & Emerging Technologies, vol.2, Issue 2, April 2011, ISSN No.2044-6004.
9. Ritu Sharma, Vijay Janyani, S. K. Bhatnagar, "Low Chromatic Dispersion and High Birefringence Investigated in Elliptical Air Hole Photonic Crystal Fiber" accepted for publication in Journal of modern optics of Taylor and Francis.
10. K.K. Sharma, "Comments on "Three uncertainty relations for real signals associated with linear canonical transform". Accepted for Publication in IET Signal Processing.
11. K.K.Sharma, "Comments on "Generalized Sampling Expansion for Bandlimited Signals Associated with fractional Fourier Transform," Accepted for Publication in IEEE Signal Processin Letters.
12. K.K. Sharma, D.K. Fageria, "Watermarking Based on Image Decomposition using Self-Fractional Fourier Functions," Accepted for Pub. in Journal of Optics, Springer Pub.
13. K.K.Sharma, "Application of linear canonical transform to AWGN Channels," Accepted for Publication in International Journal Signal Processing, Image Processing and Pattern Recognition.

### Research Papers Published in National Journals :

1. K.K. Sharma, Rajesh Kumar, "Marine Vessel Classification using fractional Fourier transform," Accepted for Pub. in Journal of Ship Technology, India.

### List of Papers Presented at International Conferences :

1. Singh, G., Yadav, R. P., Janyani, V. " Performance analysis of Ti: LiNbO<sub>3</sub> 1×2 digital photonic switch with SiO<sub>2</sub> buffer layer " International Conference on Mechanical and Electrical Technology (ICMET 2010), Singapore, IEEE Explorer, 978-1-4244-8102-6/10, p.p. 122-124, 2010.
2. Singh, G., Yadav, R. P., Janyani, V. " Photonic switching technologies: A comparison of MZI, MMI and Digital optical switching elements" Int. conference on emerging trends in Engineering and Technologies, Biyani Girls college, Jaipur, India, Nov. 26-27, 2010.
3. G. Singh, P. Stenberg, P. Vahima, M. Kuittinen, R. P. Yadav, V. Janyani, "Hydrogen silsesquioxane (HSQ): a perfect negative tone resist for developing nanostructure patterns on a silicon platform", MOEM, San Francisco, USA, Proc. SPIE 7927, 792715 (2011).
4. G. Singh, S. Bothra, S. Gupta, R.P.Yadav, V. Janyani "Process optimization to design Ti-indiffused Lithium Niobate channel waveguide for MZI switching element" Micro-Technology, Prague, C.R, Proc. SPIE 8069, to published by 1st June, 2011.
5. Kavita Sharma, Ritu Jain, Nidhi Bhargava, Ritu Sharma, and K.S.Sharma, "Dielectric studies of Wheat in Powder Form at Microwave Frequencies", Indian Journal of Experimental Biology, Vol.47, Oct. 2010, pp 1002-1007.
6. K.S.Sharma, Nidhi Bhargava , Ritu Jain, Varsha Goyal, Ritu Sharma, Smita Sharma, "Pseudopotential approach to superconductivity in MgB<sub>2</sub>" in Indian Journal of Pure and Applied Physics, Vol 48, January 2010, pp59-66.
7. Sheesh Ram, Ritu Sharma, Vijay Janyani, Rotash Kumar, "Comparison of Dispersion Properties for Different Lattice of Elliptical Photonic Crystal Fiber" at ICEICE2010, M.B.M. Engg. College, Jodhpur, Rajasthan, March 29-30, 2011.
8. Varsha Goyal, Bhawna Panwar, Ritu Sharma and K.S. Sharma "A Theoretical Investigation of Superconductivity & Electronic Structure of AlB<sub>2</sub> and BeB<sub>2</sub> in International Conference on Radiation Biology -University of Rajasthan, Jaipur, 23 Dec, 2010.
9. K.S. Sharma, Varsha Goyal, Ritu Sharma, " A unified pseudopotential approach to superconducting state parameters of Mg, B and MgB<sub>2</sub>" in 15th International Workshop on Computational Physics and Material Science: Total Energy and Force Method, at Trieste, Italy, 13-15 January 2011, 10. K.K. Sharma, "Saving the bandwidth in analog modulation schemes using Linear canonical transforms," in Proc. of International Conference on Advances in Communication, Network and Computing, CNC 2010, Oct 04-05, 2010, Calicut, Kerala, India.
11. N. Janrao and V. Janyani, "Design of Single Mode Dispersion Reduced HS - PCF (Hexagonal Lattice with Square Hole PCF), Photonics - 2010, IIT Guwahati, pp 392, 12-15 Dec. 2010.
12. M. Tiwari, A. Agrawal, V. Janyani and B. M. A. Rahman, "Octave Spanning Supercontinuum in Soft Glass Equiangular Spiral Photonic Crystal Fiber", Photonics - 2010, IIT Guwahati, pp 175, 12-15 Dec. 2010.

13. M. Tiwari and V. Janyani, "Octave Spanning Supercontinuum in Lead Silicate Photonic Crystal Fiber Suitable for 1.55  $\mu\text{m}$  Pumping", Proc. International Conference Photonics - 2010, IIT Guwahati, pp 381, 12-15 Dec. 2010.
14. M. Tiwari, V. Janyani "Effect of Peak Pulse Power on the Supercontinuum Generation in Highly Nonlinear Photonic Crystal Fiber", Proceedings of the Asia-Pacific Microwave Photonics Conference 2010 (APMP2010), Polytechnic University, Hongkong, Paper 519, 26-28 April 2010.
15. M. Tiwari, V. Janyani, "Supercontinuum Generation and Optimisation in Nonlinear Photonic Crystal Fibres", Proceedings of the IEEE International Conference on Computer and Network Technology - ICCNT 2010, IACSIT, Bangkok, Thailand, pp 606-607, 23-25 April 2010. Available online at IEEE Xplore.
16. M.M. Sharma, Sanjeev Yadav, R.P. Yadav, Y. Ranga, Deepak Bhatnagar, "Ultra-Wideband Antenna with Elliptical Patch Having U-Slot with Band-Notch Characteristics" IEEE AP-S International Symposium on Antennas and Propagation and 2010 USNC/CNC/URSI Meeting in Toronto, Canada, on July 11-17, 2010.
17. S. Shekhawat, D. Bhatnagar, V.K. Saxena, J.S. Saini, Y. Ranga and M.M. Sharma, "Design of Circularly Polarized Broad Band Stacked Rectangular Patch Antennas for Modern communication Systems", IEEE AP-S International Symposium on Antennas and Propagation and 2010 URSI Toronto, Canada, pp. 1-4, July 11-17, 2010.
18. M. M. Sharma, Sanjeev Yadav, Deepak Bhatnagar, R P Yadav, Y. Ranga, Nemi Bajia, "Design of a Compact Elliptical Microstrip Patch Antenna for Ku-Band Applications " accepted for presentation at 5th International Conference on Industrial and Information Systems (ICIIS-2010,) Surathkal, 29th July - 1st August, 2010. (Accepted, could not be presented)
19. M.M. Sharma, Sanjeev Yadav, R.P. Yadav, Y. Ranga, Deepak Bhatnagar, "Dual-Band Compact Semi-Elliptical Microstrip Patch Antenna for Ku-Band Applications" accepted for presentation at the 21st Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2010) in Istanbul, Turkey, on 26 - 29th September 2010. (Accepted, could not be presented)
20. M. M. Sharma, Sanjeev Yadav, A. Kumar, D. Bhatnagar, R. P. Yadav "Design of Broadband Multi-Layered Circular Microstrip Antenna for Modern Communication Systems", Proceedings of IEEE Asia Pacific Microwave Conference 2010, Pacifico Yokohama, Yokohama, Japan, pp. 742-745, December 7-10th, 2010.
21. Yogita Chapre, M.M. Sharma and Y. Ranga, "An Extremely Wideband Printed Antenna for Wireless Communication Systems", IEEE INDICON Conference, Kolkata, pp. 1-3, 17-19 December, 2010.
22. M.M. Sharma, Sanjeev Yadav, Ashok Kumar, Y. Ranga and Deepak Bhatnagar, "Design of a Compact Elliptical Microstrip Patch Antenna for Ku-Band Applications" 2011 International Conference on Computers, communications, Control and Automation (CCCA 2011) HongKong, China, February 20-21, 2011. (Accepted, could not be presented)
23. M. Salim, R.P. Yadav, Neeta Mishra, " Performance evaluation of Turbo Codes over Nakagami-m Fading Channels", International Conference on Systemics, Cybernetics and Informatics (ICSCI 2011), Jan 05-08, 2011 Hyderabad, India. 24. M. Salim, R.P. Yadav, S. Ravikanth, "Modified HAD

stopping criteria Turbo decoding", International Conference on Systemics, Cybernetics and Informatics (ICSCI 2011), Jan 05-08, 2011 Hyderabad, India.

### List of Papers Presented at National Conferences

1. Rajdeep Roy, Vishwa Prabhat, Singh, G., Yadav, R. P., Janyani, V., " Digital Optical Switch based on electro-optic effect: principle, performance analysis and comparison with other all-optical switching technologies" IEEE MTS Delhi chapter sponsored national conference CBCT 2010: Convergence of broadcast and communication technologies, March 6, 2010, SKIT Jaipur.
2. G. Singh, S. Bothra, S. Gupta, R.P.Yadav, V. Janyani "Modelling of Ti-indiffused Lithium Niobate channel waveguides: linear and curved shaped" NCMCN, UOR, Jaipur, January 6-8, 2011.
3. G. Singh, S. Bothra, S. Gupta, R.P.Yadav, V. Janyani "Electro-optic, Y-branch Digital optical switch based on x-cut Ti-indiffused Lithium Niobate" Invited talk, Institution of Engineers (India) sponsored National conference on Networking Technologies, Arya College of Engineering Jaipur, February 5-6, 2011.
4. Sheesh Ram, Ritu Sharma, Rotash Kumar "Comparison of Total Dispersion in Photonic Crystal Fiber" "Recent Advances in Modern Communication Systems and nanotechnology" during January 6-8, 2011 at University of Rajasthan, NCMCN2011, Jaipur.
5. Kavita Sharma, Nidhi Bhargava, Ritu Sharma, and K.S.Sharma, "Dielectric studies of Wheat in Powder Form at Microwave Frequencies" at National symposium on Microwave :Principle and Applications at School of Environmental Sciences, J.N.U. New Delhi, November 5, 2009.
6. D. Jhanwar, K.K. Sharma, and S.G. Modani, "Discrimination of different environmental background noise sources using fractional Fourier transform based spectral shape features," in Proc. of the International Conference on Communication and signal processing, (ICCS'11) , Coimbatore, India, March 17-18, 2011, vol. 2, pp.689-694.
7. N. Janrao, R. Zafar, V. Janyani, "Wideband Slow-Light Photonic Crystal Waveguide with Tilted Elliptical Cell", Proc. National Conference on Recent Advances in Microwave Tubes, Devices and Communication System (NCRA-MTDCS-2011), pp. 68, JNIT Jaipur, March 4-5, 2011.
8. K. Mittholiya, V. Janyani, "Optimization of Photonic Crystal Waveguide Coupling with Elliptical Unit Cell", National Conference on Advances in Microwave Communication, Devices & Applications (AMCDA'10), RIET Jaipur, Feb. 16-17, 2010.
9. M.M. Sharma, Ashok Kumar, D. Bhatnagar and Swati Gupta, "Compact Slotted Broadband Antenna with Parasitic Patch for Wireless Operations", National Conference on Modern Communication and Nanotechnology (NCMCN 2011), Jaipur, January 6-8, 2011.

### Books Published

S. No.	Title	Author	Publisher
1.	A chapter with "New Advanced Technologies" Title: Ti: LiNbO <sub>3</sub> based Machzehnder interferometric all optical switches: A review	G.Singh, R.P.Yadav, V. Janyani	<i>INTECH Publication</i> , Austria, ISBN: 978-953-307-067-4, pp. 311-322, (2010).

## DEPARTMENT OF MECHANICAL ENGINEERING

### Research Papers Published in International Journals:

1. Rathod, V., Yadav, O.P., Rathore, A. and Jain, R., (2011), "Probabilistic modeling of fatigue damage accumulation for reliability prediction", International Journal of Quality, Statistics, and Reliability, Vol.2011, ID 718901
2. Joshi, D., Rathore, A.P.S., Sharma, D. Nepal B., (2010), "Determinants of competitiveness and their relative importance: A Study of Indian auto-component Industry", Int. Journal of Services and Operations Management, (Article in press).
3. Mathur, A., Dangayach, G. S., Mittal, M. L., and Sharma, M. K., "Performance measurement in automated manufacturing, Measuring Business Excellence, Vol. 15, No. 1, 2011, pp. 77-91.

### Research Papers Published in National Journals:

1. Joshi, D., Rathore, A.P.S., Sharma, D., (2011), "Determinants of competitiveness: A study of Indian auto component industry", Journal of Competitiveness, Vol. 1, Issue 1, pp. 26 36.
2. Joshi, D., Rathore, A.P.S., Sharma, D., (2010), "Classification of performance measures and metrics for competitiveness: A comprehensive literature review" Handbook on Supply Chain Management (Article in press)
3. Poonia., A., Dangayach, G. S., and Bhardwaj, A., Cyber crime: Practices and Policies for its Prevention, Published in International Conference "Cyberworlds 2010" held in Singapore from 20-22 October 2010, sponsored by IEEE Computer Society, ACM SIGGRAPH ,EG, Nayang Technological University and Interactive Digital Media.

### List of Papers Presented at International Conferences:

1. Rathod, V., Yadav, O.P., Rathore, A. and Jain, R., (2010), "Capturing life cycle issues by incorporating degradation behavior in RBRDO", 2<sup>nd</sup> International Conference on Production and Industrial Engineering (CPIE-2010) , December 03-05, 2010, Dr B R Ambedkar NIT, Jalandhar, India.
2. Joshi, D., Rathore, A.P.S., Sharma, D., (2010), "Determinants of Competitiveness: A Study of Indian Auto Component Industry", 13<sup>th</sup> TCI Annual Global Conference, Nov. 29 - Dec. 3, 2010, MDI, Gurgaon.
3. Joshi, D., Rathore, A.P.S., Sharma, D., (2010), "Globalization and Trade Competitiveness of Indian Auto Component Industry: Challenges and Opportunities", Globalization and Economic Asymmetries in International Trade and Development: Challenges and Opportunities, Dec.16 18, 2010, Indian Institute of Management, Lucknow at Noida campus.
4. Joshi, D., Rathore, A.P.S., Sharma, D., (2010), "Success factors for value creation and sustainable growth of Indian auto component industry", 3<sup>rd</sup> International Conference on Marketing and Business Strategy (ICOMBS - 2010) Dec. 3 4, 2010, IBS, Hyderabad
5. Rathod, V.P., Yadav, O.P., Rathore, A.P.S., Jain, R., (2010), "Capturing life cycle issues by incorporating degradation behavior in reliability based design optimization", Proceedings of the Annual IIE Conference and Expo-2010, 5 - 9 June, Mexico.

6. Augustine, M., Yadav, O. P., Jain, R., Rathore, A.P.S., Nepal, B., (2010), "Root cause analysis algorithm for system interaction failures generated through cognitive map network simulation", Proceedings of the Annual IIE Conference and Expo-2010, 5 - 9 June, Mexico.
7. Rathod, V.P., Yadav, O.P., Rathore, A.P.S., Jain, R., (2010), "Reliability based design optimization by integrating degradation to improve reliability of the product for a given life target", International conference on Frontiers in Mechanical Engineering FIME 2010, 20 - 22 May, NIT-Surathkal.

#### **List of Papers Presented at National Conferences**

1. Shringi Vikas, Gupta Yashivin, Chaudhary H. and Mittal M.L., 2010, "Design Improvement in Tricycle Used for Physically Challenged People" ", Proc. Of the National Conference on Industrial Problems on Machines and Mechanisms (IPROMM2010) held at MNIT Jaipur, December 17-18, 2010, pp.153-157.

#### **DEPARTMENT OF MANAGEMENT STUDIES**

##### **Research Papers Published in International Journals:**

1. Rathod, V., Yadav, O.P., Rathore, A. and Jain, R., (2011), "Probabilistic modeling of fatigue damage accumulation for reliability prediction", International Journal of Quality, Statistics, and Reliability, Vol.2011, ID 718901
2. Joshi, D., Rathore, A.P.S., Sharma, D. Nepal B., (2010), "Determinants of competitiveness and their relative importance: A Study of Indian auto-component Industry", Int. Journal of Services and Operations Management, (Article in press).

##### **Research Papers Published in National Journals :**

1. Joshi, D., Rathore, A.P.S., Sharma, D., (2011), "Determinants of competitiveness: A study of Indian auto component industry", Journal of Competitiveness, Vol. 1, Issue 1, pp. 26 - 36.
2. Joshi, D., Rathore, A.P.S., Sharma, D., (2010), "Classification of performance measures and metrics for competitiveness: A comprehensive literature review" Handbook on Supply Chain Management (Article in press)

##### **List of Papers Presented at International Conferences:**

1. Rathod, V., Yadav, O.P., Rathore, A. and Jain, R., (2010), "Capturing life cycle issues by incorporating degradation behavior in RBRDO", 2<sup>nd</sup> International Conference on Production and Industrial Engineering (CPIE-2010) , December 03-05, 2010, Dr B R Ambedkar NIT, Jalandhar, India.
2. Joshi, D., Rathore, A.P.S., Sharma, D., (2010), "Determinants of Competitiveness: A Study of Indian Auto Component Industry", 13<sup>th</sup> TCI Annual Global Conference, Nov. 29 - Dec. 3, 2010, MDI, Gurgaon.
3. Joshi, D., Rathore, A.P.S., Sharma, D., (2010), "Globalization and Trade Competitiveness of Indian Auto Component Industry: Challenges and Opportunities", Globalization and Economic Asymmetries in International Trade and Development: Challenges and Opportunities, Dec.16 - 18, 2010, Indian Institute of Management, Lucknow at Noida campus.

4. Joshi, D., Rathore, A.P.S., Sharma, D., (2010), "Success factors for value creation and sustainable growth of Indian auto component industry", 3<sup>rd</sup> International Conference on Marketing and Business Strategy (ICOMBS - 2010) Dec. 3 4, 2010, IBS, Hyderabad
5. Rathod, V.P., Yadav, O.P., Rathore, A.P.S., Jain, R., (2010), "Capturing life cycle issues by incorporating degradation behavior in reliability based design optimization", Proceedings of the Annual IIE Conference and Expo-2010, 5 - 9 June, Mexico.
6. Augustine, M., Yadav, O. P., Jain, R., Rathore, A.P.S., Nepal, B., (2010), "Root cause analysis algorithm for system interaction failures generated through cognitive map network simulation", Proceedings of the Annual IIE Conference and Expo-2010, 5 - 9 June, Mexico.
7. Rathod, V.P., Yadav, O.P., Rathore, A.P.S., Jain, R., (2010), "Reliability based design optimization by integrating degradation to improve reliability of the product for a given life target", International conference on Frontiers in Mechanical Engineering FIME 2010, 20 22 May, NIT-Surathkal.

## **DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING**

### **Research Papers Published in National Journals**

1. Satish Tailor, V K Sharma and P R Soni "Plasma Spray Coatings: State of The Art" Transaction of Powder Metallurgy Association of India. Vol 36, Dec. 2010 pp127-134.
2. Daulat kumar Sharma and P.R.Soni "Sliding wear behavior of mechanically alloyed Al-Si-SiCp Nanocomposites." Transaction of Powder Metallurgy Association of India.(Accepted for publication).
3. Divya Kohli, Ajay Pareek and Ashok Sharma, "Some Critical Aspects of Solidification and Grain Refinement of Aluminium Alloys", Indian Foundry Journal Vol. 56, No. 7, July 2010, pp 31-39
4. A.A. Gadhikar, C.P. Sharma, D.B. Goel, Ashok Sharma and S.K. Goel. "Study of carbides in austenitic stainless steel" Indian Foundry Journal Vol. 56, No. 10, October 2010, pp 23-28

### **List of Papers Presented at International Conferences:**

1. Lorenz Ratke, Ashok Sharma and Divya Kohli, "Influence of rotation speed and holding time on Al-7Si alloy cast through rapid slurry formation(RSF) technique", International 50<sup>th</sup> Foundry Conference Portorož, Slovenia, 8<sup>th</sup> To 10<sup>th</sup> September 2010.
2. Ashok Sharma, S.K. Gupta and Madhulika Shrikant, "Effect of Process Parameters in Stress Induced Melt Activated (SIMA) Cast Al-7Si-0.45Mg Alloy", International 50<sup>th</sup> Foundry Conference Portorož, Slovenia, 8<sup>th</sup> To 10<sup>th</sup> September 2010.
3. Lorenz Ratke, Ashok Sharma, and Divya Kohli, "Effect of Process Parameters on Properties of Al-Si Alloys Cast by Rapid Slurry Formation (RSF) Technique", ICASP 3 - the 3rd International Conference on Advances in Solidification Processes, Rolduc Abbey (Netherlands) near Aachen, Germany 7th - 10th of June 2011.

### **List of Papers Presented at National Conferences :**

1. Aniruddha A. Gadhikar, Ashok Sharma, C.P. Sharma, D.B. Goel, S. K. Goel, Melting Practice of Nitrogen Bearing Austenitic Stainless Steels, Presented in 59<sup>th</sup> Indian Foundry Congress Held on

Feb.11-13, (2011), At Chandigarh, pp 157-166.

2. Lorenz Ratke, Ashok Sharma, and Divya Kohli, The RSF Technology for Semi Solid Casting Processes, Presented in 59<sup>th</sup> Indian Foundry Congress Held on Feb.11-13, (2011), At Chandigarh, pp 215-223.
3. P.C.Meena, Surendra singh, Ashok Sharma, Effect of Ti:C Ratio on Grain Refining Efficiency of Al-Ti-C Master Alloy Grain Refiners, Presented in 59<sup>th</sup> Indian Foundry Congress Held on Feb.11-13, (2011), At Chandigarh, pp 225-234:

#### Books Published

S. No.	Title	Author	Publisher
1.	Mechanical Behaviour and Testing of Materials	A. K. Bhargava and C.P. Sharma	PHI Learning Pvt. Ltd., New Delhi
2.	Heat Treatment Principles and Techniques (2 <sup>nd</sup> Revised Edition, Jan-2011)	T.V. Rajan C.P. Sharma Ashok Sharma	Prentice Hall of India

#### DEPARTMENT OF CHEMISTRY

##### Research Papers Published in National Journals:

1. Gupta R., Sharma D., Verma P.S., Jain A., "Insecticidal evaluation and [4+2] Aza-Diels-Alder Synthesis of 3,7-Diaryl-6,7-dihydro-5H-6-substituted thiazolo[3,2-a]pyrimidin-5-ones under coupled ultrasonic irradiation and PTC", Journal of Heterocyclic Chemistry, In press 0022-152X
2. Gupta R., Jain A., Jain M., Joshi R., "Indium trichloride catalysed Diels-Alder reaction: Synthesis of novel 5-butyl-11a-aryl-4a,5,11,11a-tetrahydro-11bH-indolo[3,2-c]quinoline-1,4-dione" Journal of Heterocyclic Chemistry, In Press 0022-152X
3. Saharan Ritu, Joshi Jyoti, Verma P.S., Sharma I.K "Ecofriendly Synthetic routes for the reduction of Carbonyl and the substituted carbonyl compounds.", International Journal of applied Biology and pharmaceutical technology, Vol. 2 (2011), 233-243.
4. Gupta R., Jain A., Jain M., Joshi R., "One pot' synthesis of 2-amino-3-cyano-4,6-diarylpyridines under ultrasonic irradiation and grindstone technology" Bulletin of Korean Chemical Society, Vol. 30, 2010, pp. 3180-3182.
5. Gupta R., Jain A., Jain M., Joshi R., "Eco friendly solvent less synthesis of 5-indolyl pyrimido[4,5-d]pyrimidinones" Bulletin of Korean Chemical Society Vol. 32, 2011, pp. 899-904.

##### Research Papers Published in National Journals:

1. Gupta R., Gupta N., Jain A., "Improved synthesis of chalcones and pyrazolines under ultrasonic irradiation" Indian Journal of Chemistry-B 49, 2010, pp. 351-355.
2. Tripathi Alok, Joshi B.S. and Joshi Jyoti "A commercial viable process for the preparation of substantially pure amorphous form of proton pump inhibitors.", Rasayan Journal of Chemistry, Vol.3, No.3(2010), 514-516.

3. Tripathi Alok, Joshi B.S. and Joshi Jyoti "A review on " Polymorphism in Rabeparazole sodium", Rasayan Journal of Chemistry Vol. 3, No. 4 (2010), 736-744

#### List of Papers Presented at National Conferences

S. No.	Name of the Faculty	Title of Event	Place	Date(s)
1.	Dr. Jyoti joshi	All India Seminar on "New strategies and it's impact on Global warming."	Raj.College of Engg.for women.Jaipur.	Aug. 20-21, 2010
2.	Dr. Jyoti joshi	All India Seminar on "New strategies and it's impact on Global warming."	Raj.College of Engg.for women.Jaipur.	Aug. 20-21, 2010
3.	Dr. Ragini Gupta	National Symposium on Organic Synthesis	IIS University, Jaipur	Feb. 18-19, 2011

#### DEPARTMENT OF MATHEMATICS

##### Research Papers Published in International Journals:

1. Jain K.C., R. Mathur and Amit Srivastava "A symmetric Information Divergence Measure of Csiszar's f-Divergence Class" Journal of Applied Mathematics, Statistics and Informatics (JAMSI),
2. K.C. Jain and Ruchi Mathur "A symmetric divergence measure and its bounds" Tamkang Journal of Mathematics Vol. 42, No.4, 2011
3. Rashmi Jain and Beena Bundela "A Study of Some Incomplete Elliptic Integral and Associated Definite Integrals Involving Single and Multivariable Polynomials and Functions" Int. J. of Math. Analysis, Vol. 5(2011), No.19, 901-920.
4. Kantesh Gupta and Vandana Agrawal " A Study of Fractional Integral Operators Involving I-Function, Generalized Hurwitz-Lerch-Zeta Function and the General Class of Polynomials" Journal of Applied Mathematics, Statistics and Informatics, Dec. 2010, Vol.6, No.2, 51-62.

##### Research Papers Published in National Journals:

1. K.C. Jain and Ruchi Mathur "A New Measure of Csiszar's f-divergence Class and its bounds. Ganita sandesh, Vol 24, No. 1, 2010, 29-38.
2. Rashmi Jain and Beena Bundela "A Study of Some generalized Incomplete Elliptic Integral and Associated Definite Integrals Involving general class of Polynomials, single and multivariable H-function and -function with applications" international journal of Physical Sciences, Ultra Scientist Vol.23(1) M(2011), 115-124.
3. Rashmi Jain and Beena Bundela "A study of unified finite double integrals", J. Raj. Acad. Phys. Sci., Vol.9, No.24, (2010), 117-124.
4. Rashmi Jain and Beena Bundela "Summation Formulae involving Generalized Voigt Functions, Pseudo Laguerre Polynomial and Parabolic Cylinder Function", Ganita Sandesh, Vol.24, No.1 (2010), 47-54.

5. R.K. Saxena, Rashmi Jain and Ranjeeta Nahar "IFunctional Relations Involving H-function associated with certain diagamma function, Journal of Indian Acad. Math., Vol.31, No.2 (2009), 597-604.
6. Rashmi Jain and Ranjeeta Nahar "Integrals involving product of H-function, Journal of Indian Acad. Math., Vol.31, No.2 (2009), 385-400.
7. Kantesh Gupta and Vandana Agrawal " Applications of Unified Integral Formulae Involving the Product of I-function and General Polynomials" J. of Indian Acad. Maths., December 2010, Vol. 32, No.1, 121-130.
8. Kantesh Gupta and Vandana Agrawal "A Study of Multidimensional H bar Function Transform" Bull. Pure Appl. Math., Vol.4, No.1 (2010), 138-151.
9. K.C.Gupta, Kantesh Gupta and Alpana Gupta "Generalized fractional integration of the product of two H-functions" J. Rajasthan Acad. Phy. Sciences, September 2010, Vol.9, No.3, 203-212.
10. Kantesh Gupta, Vandana Agrawal and Raj Kumar Gupta " Integrals involving the I-function, Gauss hypergeometric function, a general multivariable polynomial and Fourier series associated with them" J. Rajasthan Acad. Phy. Sciences, June 2010, Vol.9, No.2, 125-132.
11. K.C.Gupta, Kantesh Gupta and Alpana Gupta "Riemann-Liouville, Erdelyi-Kober, Saigo fractional integral operators and the multivariable H-function, J. Rajasthan Acad. Phy. Sci., Vol.10, N0.1 ( March 2011).

#### List of Papers Presented At National Conferences

1. A paper entitled "A Formula for the generalized Erdelyi-Kober operator of Riemann-Liouville type involving H bar function" was presented by Prof. Kantesh Gupta at National seminar on Advances in Complex analysis and Special Functions at Kishangarh during March 12-13, 2011.

#### Books Published

S. No.	Title	Author	Publisher
1.	Statistics and Probability Theory 5 <sup>th</sup> Edition	Prof. K. C. Jain	CBC, Jaipur
2.	Discrete Mathematics 6 <sup>th</sup> Edition	do	do
3.	Mathematics IV	do	do
4.	Advanced Engineering Mathematics 3	Prof. Kantesh Gupta	Ashirwad Publication
5.	Advanced Engineering Mathematics 4	Prof. Kantesh Gupta	Ashirwad Publication

#### DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

##### List of Papers Presented at International Conferences :

1. Tandon, Dr. Nupur: "Teaching English Language Skills in The Language Laboratory", at the 3<sup>rd</sup> CELT International Seminar, Semarang, Indonesia.

## **DEPARTMENT OF STRUCTURAL ENGINEERING**

### **Research Papers Published in International Journals:**

1. Shrimali M.K. and Bharti S D, S.M. Dumne., "Seismic response analysis of adjacent buildings connected with MR dampers", *Engineering Structures*, 32 (8), pp 1223-1235, 2010.

### **List of Papers Presented at International Conferences:**

1. Dumne S.M, S.D. Bharti and Shrimali M. K, "Control Methods for Retrofitting of Structures", International Conference on Sunrise Technologies (i-COST-2011), SSVPS BSD College of Engineering & Polytechnic (Dhule), pp-xvii-xxii, 13-15 January 2011.
2. Shrimali M. K, "Aseismic Design of Structures: A Review", International Conference on Sunrise Technologies (i-COST-2011), SSVPS BSD College of Engineering & Polytechnic (Dhule), pp-i-vii, 13-15 January 2011.
3. Dumne S.M, S.D. Bharti and Shrimali M. K, "Control Systems for Seismic Hazard Mitigation of Buildings", International Conference on Innovative World of Structural Engineering (ICIWSE-2010), Department of Applied Mechanics, Govt. College of Engineering (Aurangabad), pp-287-294, 25-27 December 2010.
4. Agrawal V. and Sharma A., "Prediction of Slump in Concrete using Artificial Neural Network", Proceedings of the International Conference on Neural Networks (ICNN 2010), Amsterdam. The Netherlands, September 28-30, 2010.

### **List of Papers Presented at National Conferences**

1. Tiwari, S.K. and Khandelwal Nishant, "Acoustics in Public Buildings", Proc. of All India Seminar on "Noise Pollution" at Rajasthan State Center, Institution of Engineers (India), Jaipur, 6-7 March, 2010.
2. Tiwari, S.K. and Khandelwal Nishant, "Noise Pollution: Effect on Human Health", Proc. of All India Seminar on "Noise Pollution" at Rajasthan State Center, Institution of Engineers (India), Jaipur, 6-7 March, 2010.
3. Tiwari, S.K. and Khandelwal Nishant, Gupta Sumit, "Assesment of Noise during Construction", Proc. of All India Seminar on "Noise Pollution" at Rajasthan State Center, Institution of Engineers (India), Jaipur, 6-7 March, 2010.
4. Tiwari, S.K. and Khandelwal Nishant, Gupta Sumit, "Assesment of Noise during Construction", Proc. of All India Seminar on "Noise Pollution" at Rajasthan State Center, Institution of Engineers (India), Jaipur, 6-7 March, 2010
5. Tiwari, S.K. and Khandelwal Nishant, "Shear Strength Characteristics of Stablised Fly Ash" Proceeding of International Conference on "Current Trends in Technology" (NUiCONE2010) held at Nirma University, Gandhinagar(India), 9-11 Dec.2010.pp
6. Tiwari, S.K. and Sanjay Mathur, "Fabrication of Frame Footing Model for the Study of Settlement of Footing" Proceeding of International Conference on "Current Trends in Technology" (NUiCONE2010) held at Nirma University, Gandhinagar(India), 9-11 Dec.2010.pp

7. Tiwari, S.K. and Sanjay Mathur, "A Study on Frame Footing with Reinforced Soil Interaction" Proceeding of International Conference on "Current Trends in Technology" (NUiCONE2010) held at Nirma University, Gandhinagar(India), 9-11 Dec.2010.pp
8. Tiwari, S.K., Mathur, Sanjay., Singh, Raghuvver., Gupta, Ankit., Soni, Kuldeep, " State-of-Art Techniques for Soil Improvement" New Building Materials and Construction World Vol.16(4), October, 2010, 170-184.

## DEPARTMENT OF PHYSICS

### Research Papers Published in International Journals:

1. "Electrochemical Behavior of Different Structural States of the Alloy Ti<sub>60</sub>Ni<sub>40</sub>", Shubhra Mathur, Rishi Vyas, RohitJain, PraveenKumar, K.Sachdev and S. K. Sharma, Journal of Non-Crystalline Solids(in Press, 2011).
2. "Study of Effects of Plasma Nitriding on different Types of Steels at different Temperatures"Abhishek Sharma, K Sachdev, G Zala, Alphonsa J and K C Swami Accepted in International Journal of Materials Physics (IJMP).
3. "XPS Characterization of Corrosion Films Formed on the Crystalline, Amorphous and nanocrystalline States of the Alloy Ti<sub>60</sub>Ni<sub>40</sub>" Shubhra Mathur, Rishi Vyas, K. Sachdev and S. K. Sharma, Journal of Non-Crystalline Solids 357 (2011)1632-1635
4. "Electrochemical behaviour of the alloy Ti<sub>60</sub>Ni<sub>40</sub> after ion beam irradiation" Shubhra Mathur, Rishi Vyas, K. Sachdev and S. K. Sharma, Radiation Effects and Defects in Solids doi:10.1080/10420150.2011.559236 (2011) 1-7
5. "Effect of Ion Beam Irradiation on the Corrosion Behavior of the Melt-spun Ribbon Ti<sub>60</sub>Ni<sub>40</sub>" Shubhra Mathur, Rishi Vyas, Rohit Jain, Praveen Kumar, K. Sachdev and S. K. Sharma, Journal of Non-Crystalline Solids 357 (2011)966-969.
6. "Plasma induced modification on spin-coated ZnO thin films" Rishi Vyas, Parul Gupta, Shubhra Mathur, K. Sachdev and S. K. Sharma, To appear in AIP conference Proceedings-Volume 55 (2010)
7. "Effects of Irradiation on the Electrochemical Behavior of the Alloy Ti<sub>60</sub>Ni<sub>40</sub>"Shubhra Mathur, Rishi Vyas, P. K. Kulriya, K. Asokan, K. Sachdev and S. K. Sharma, Journal of Alloys and Compounds 503 (2010) 192-193.
8. "Effect of Structural Morphology on the Electrochemical Behaviour of Ni<sub>78</sub>Si<sub>8</sub>B<sub>14</sub> Alloy in 1 M HNO<sub>3</sub> Aqueous Medium" Shubhra Mathur, Rishi Vyas, K. Sachdev and S. K. Sharma, International Journal of Materials Sciences 5 (2010) 393-397.
9. "Corrosion Behaviour of Ni<sub>78</sub>Si<sub>8</sub>B<sub>14</sub> Alloy in 1 M NaCl Aqueous Medium at Room Temperature" Shubhra Mathur, Rishi Vyas, K. Sachdev and S. K. Sharma, Materials Physics and Applications, American Institute of Physics, 1249 (2010) 198-201.
10. "Air Oxidation of Bulk Amorphous Alloy Zr<sub>46.75</sub>Ti<sub>8.25</sub>Cu<sub>7.5</sub>Ni<sub>10</sub>Be<sub>27.5</sub> Studied by TGA" Anil Dhawan, Shubhra Mathur, Rishi Vyas, K Sachdev, M Kamruddin, A K Tyagi and S K Sharma, Physica Scripta 82 (2010) 045602.



**BLITZSCHLAG'11**



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**NEURON'10 Robotics Event**



**MOMENTS Photography Exhibition**

### List of Papers Presented at International Conferences:

1. "Plasma induced modification on spin-coated ZnO thin films" Rishi Vyas, Parul Gupta, Shubhra Mathur, K. Sachdev and S. K. Sharma, Presented at 55th DAE Solid State Physics Symposium 2010 DAE-SSPS 2010 organized by DAE and Manipal University, Manipal, Karnataka during 26-30 December 2010.

### List of Papers Presented at National Conferences

1. "Electrochemical behaviour of nanocrystalline states of the alloy  $Ti_{60}Ni_{40}$  in 1 M  $HNO_3$  aqueous medium" Shubhra Mathur, Rishi Vyas, Parul Gupta, K. Sachdev and S. K. Sharma, Presented at National Conference on Emerging Interfaces of Physics and Technology Materials EIPT-2011 organized by School of studies in Physics Vikram University Ujjain during 28-30 March 2011.
2. "Potentiodynamic Polarization Studies on  $Ti_{60}Ni_{40}$  and  $Ni_{78}Si_8B_{14}$  Alloy after High Energy Irradiation with  $Ni^{11+}$  150 MeV Ions" Shubhra Mathur, Rishi Vyas, K. Sachdev and S. K. Sharma, Presented at 3<sup>rd</sup> National Symposium for Materials Research Scholars MR-10 organized by Department of Metallurgical Engineering and Materials Science, IIT Bombay during 7-8 May 2010.
3. "Influence of Pulsed DC Glow Discharge Plasma Nitriding Process on the AISI 1045 and AISI 4140 Steels" Abhishek Sharma, P Rayjada, Alphonsa J, P M Raole, K Sachdev and K C Swami Presented in Plasma-2010 Conference at IASST, Guwahati during Dec. 8-11, 2010.
4. "Study of Corrosion Properties of Pulsed DC Glow Discharge Plasma Nitrided AISI D3 Steel" Abhishek Sharma, Shubhra Mathur, P Rayjada, Alphonsa J, P M Raole, K Sachdev, S K Sharma and K C Swami Presented in Plasma-2010 Conference at IASST, Guwahati during Dec. 8-11, 2010.

### 11.10 COURSES AND ADMISSIONS

- (a) Undergraduate courses (Bachelor of Technology) Courses of study are offered in the following disciplines Academic Programmes leading to B. Tech./B. Architecture Degree as noted below

S. No.	Discipline/Duration	No. of Seats
1.	Architecture (5 years)	62
2.	Civil Engg. (4 years)	92
3.	Chemical Engg. (4 years)	92
4.	Computer Engg. (4 years)	93
5.	Electrical Engg. (4 years)	93
6.	Electronics & Communication Engg. (4 years)	93
7.	Information Technology (4 years)	92
8.	Mechanical Engg. (4 years)	93
9.	Metallurgical Engg. (4 years)	92
	Total	802

**(b) Postgraduate Programmes (Master of Technology)**

Academic Programmes leading to M. Tech./M.B.A./M.Sc. Degree as noted below

S. No.	Title of Course	Department Offering the Programmes
1.	M.Tech. in Water Resource Engineering	Civil Engg.
2.	M. Tech. in Environmental Engineering	Civil Engg.
3.	M. Tech. in Power Systems	Electrical Engg.
4.	M. Tech. in Metallurgical & Materials Engineering	Metallurgical & Materials Engg.
5.	M. Tech. in Electronics and Comm. Engineering	Electronics & Comm. Engg.
6.	M.Tech. in Transportation Engineering	Civil Engg.
7.	M.Tech. in Manufacturing System Engineering	Mechanical Engg.
8.	M.Tech. in Structural Engineering	Structural Engg.
9.	M.Tech. in Chemical Engineering	Chemical Engg.
10.	M. Tech. in Energy Engineering	Mechanical Engg.
11.	M. Tech. in VLSI Design	Electronics & Comm. Engg.
12.	M. Tech. in Computer Engineering	Computer Engg.
13.	M. Tech. in Disaster Assessment and Mitigation	Civil Engg.
14.	M. Planning in Urban Planning	Architecture
15.	M. Sc. in Physics	Physics Dept.
16.	M. Sc. in Chemistry	Chemistry Dept.
17.	M. Sc. in Mathematics	Mathematics Dept.
18.	Master of Business Administration (MBA)	Management Studies Dept.
19.	Technology Management	Management Studies Dept.

**Course-Wise Enrolment**

Branch/Duration	I Year	II year	III Year	Final Year	Final Year Arch.
Architecture (5 years)	62	48	48	38	36
Civil Engg. (4 years)	92	93	93	65	
Chemical Engg. (4 years)	92	78	78	58	
Computer Engg. (4 years)	92	79	79	64	
Electrical Engg. (4 years)	90	81	81	62	
Electronics & Communication Engg. (4 years)	92	92	92	69	
Information Technology (4 years)	90	80	80	62	
Mechanical Engg. (4 years)	91	78	78	65	
Metallurgical Engg. (4 years)	75	72	72	61	
<b>TOTAL</b>	<b>776</b>	<b>701</b>	<b>701</b>	<b>544</b>	<b>36</b>
<b>GRAND TOTAL</b>	<b>2758</b>				

## COURSE WISE ADMISSION STATISTICS-UG/PG PROGRAMMES

(a) Students admitted to Undergraduate Programmes during the session 2010-11

Name of Course	Nos. of seats allotted to students belonging to					
	SC	ST	OBC	PWD	GC	Total
Architecture	9	4	17	1	30	61
Chemical Engg.	13	7	25	2	45	92
Civil Engg.	14	6	24	3	44	91
Computer Engg.	14	7	24	3	45	93
Electronics & Communication Engg.	14	7	24	2	46	93
Electrical Engg.	13	7	25	3	44	92
Information Technology	14	7	24	3	44	92
Mechanical Engg.	13	7	25	3	45	93
Metallurgical Engg.	12	6	24	1	38	81
<b>Total</b>	<b>116</b>	<b>58</b>	<b>212</b>	<b>21</b>	<b>381</b>	<b>788</b>

(b) Students admitted to Postgraduate Programmes during the session 2010-11

(i) Full Time M. Tech./M. Plan./M. Sc./M. B. A. programmes

S. No.	Name of Course	SC	ST	OBC	PWD	GC	SP	Total
1.	Chemical Engg.	3	2	5	0	18	0	28
2.	Environmental Engg.	3	2	5	0	20	0	30
3.	Water Resources Engg.	0	0	0	0	0	0	0
4.	Structural Engg.	2	2	5	1	15	0	25
5.	Power Systems	4	0	11	0	8	0	23
6.	Transportation Engg.	2	2	5	0	15	0	24
7.	Manufacturing Sys. Engg.	3	1	5	0	18	0	27
8.	Metallurgical & Materials Engg.	2	2	2	1	8	0	15
9.	Electronics & Comm. Engg.	2	2	5	0	17	0	26
10.	VLSI Design	3	0	5	0	17	0	25
11.	Energy Engineering	3	0	4	0	17	0	24
12.	Computer Engineering	3	1	5	0	17	1	27
13.	Urban Planning	1	1	1	0	7	0	10
14.	M. Sc. Physics	1	0	2	0	3	0	6
15.	M. Sc. Chemistry	4	2	8	0	16	0	30
16.	M. Sc. Mathematics	0	0	0	0	0	0	0
17.	M.B.A.	4	0	8	0	32	0	44
	<b>TOTAL</b>	<b>40</b>	<b>17</b>	<b>76</b>	<b>2</b>	<b>228</b>	<b>1</b>	<b>364</b>

**(ii) Part Time M.Tech./M.Plan. Programmes**

Branch	Students admitted
Chemical Engineering	0
Environmental Engg.	1
Water Resources Engg.	0
Structural Engg.	4
Power Systems	3
Transportation Engg.	4
Manufacturing Sys. Engg.	4
Metallurgical & Materials Engg.	1
Electronics & Comm. Engg.	3
VLSI Design	2
Energy Engineering	2
Computer Engineering	4
Urban Planning	0
<b>Total</b>	<b>28</b>

**iii) Ph.D. Programmes**

S. No.	Department	Students admitted	
		Full Time	Part Time
1.	Electronics & Comm. Engg.	3	1
2.	Electrical Engg.	4	1
3.	Civil Engg.	2	-
4.	Chemical Engg.	1	-
5.	Computer Engg.	1	-
6.	Structural Engg.	--	-
7.	Mechanical Engg.	7	-
8.	Metallurgical & Materials Engg.	1	-
9.	Physics	1	-
10.	Chemistry	2	-
11.	Mathematics	1	-
12.	Humanities & Social Sciences	2	-
13.	Management Studies	1	-
	<b>Grand Total</b>	<b>26</b>	<b>2</b>

**11.11 SCHOLARSHIPS AND AWARDS****FOR POSTGRADUATE COURSES STUDENTS**

S.No.	Name of Scholarship	Address	Amount	Conditions
1.	Govt. of India (MHRD) New Delhi	MHRD New Delhi	Rs. 8000/- PM	For M. Tech. (GATE Qualified Candidates)

2.	Scholarship to sponsored candidates QIP (Poly) Scheme Scholarship from AICTE New Delhi	Advisor all India Council of Technical Education Sports Complex IP Estate New Delhi 110002	Rs. 4000/- PM + Contingency Rs. 5000/- PA	For M.Tech.
3.	Sponsored by Ministry of Urban Development & Poverty Alleviation, New Delhi	Ministry of Urban Development New Delhi	Rs. 2000/- PM stipend + Tuition Fees + Exam Fees + Contingency Rs. 5000/- PA	For PG students in Environmental Engineering

#### FOR Ph. D. SCHOLARS

S. No.	Name of Scholarship	Address	Amount	Conditions
1.	CSIR - UGC Fellowship	CSIR Complex PUSA New Delhi	JRF/SRF/RA + HRA	For Ph.D.
2.	Institute Fellowship JRF	Institute	Rs. 18000/- for first two years and Rs. 20000/- for next two years	For Ph.D.
3.	Scholarship to sponsored candidates QIP (Poly) Scheme Scholarship from AICTE New Delhi	Advisor all India Council of Technical Education Sports Complex IP Estate New Delhi 110002	Rs. 9000/- PM + Contingency Rs. 10000/- PA	For Ph.D.

#### FOR UNDERGRADUATE STUDENTS

S.N.	Name of Scholarship	Address	Amount	Conditions
1	Bokaro Steel Plant Scholarship for SC/ST (SAIL)	Steel Authority of India Ltd., Ispat Bhavan Lodi Road, New Delhi	Rs. 3000/- P.A.	Children of the company
2	O.N.G.C. Dehradun for SC/ST	General Manager ONGC, Tel Bhavan Dehradun 248003	Rs. 12000/-	Merit ONGC finalizes the merit
3	Shamjee Memorial Trust	9K Block, Connaught Circus New Delhi- 110011	Rs. 4000/- P.A.	Trust finalizes the merit (any students)
4	Kunan Kour Suri Memorial Scholarship	B-205 Rajendra Marg, Babu Nagar, Jaipur	Rs. 100000/- (corpus fund)	IInd B. Tech. Students for 3 years merit cum means
5	S.J.Jindal Trust	C-2, Green Park Extn. New Delhi- 110016	Rs. 1200/ P.M.	Trust finalizes Merit
6	Ram And Shanti Bhargava Memorial Award	Dr. Vijay Bhargava Dept. of Electrical and Computer Engg. University of Victoria P.O. Box 3055 STN, CSC, Victoria BC 3P6, Canada	Corpus Fund Rs. 200000/-	Merit cum means for Final Electronics students
7	Raj & Sarla Bhargava Scholarship	Canada	Gold Medal	Best Student of the Institute

8	LG Scholarship	L.G. Electronics India Pvt. Ltd. Plot -51, Udyog Vihar Surajpur- Kansa Road Greater Noida (UP)	Rs. 24000/- P.A. Each	Best student Final Mechanical Best Student Final Electrical
9	TCS Colombo Plan	Indian Council for Cultural Relations, New Delhi	Rs. 3600/- PM	Foreign Students (Nepal)
10	The Rajiv Gandhi Scholarship Scheme for Students With Disabilities	The National Centre for Promotion of Employment of disabled people (NCPEDP) A-77, South Extension Part-II, New Delhi	Rs. 1200/- P.M.	Merit cum means
11	Govt. of India Ministry of Steel Udyog Bhawan New Delhi-110011	Secretary SDF Managing Committee Ispat Niketan 52/1A Ballygunge Circular Road Kolkata-700019	Rs. 4000/- P.M.	Career in Ferrous metallurgy
12	O P Jindal Engineering & Management Scholars	Jindal center, 12 Bhikaji Cama Place, New Delhi-110066	Rs. 65000/- P. A.	2 Toppers from each Batch (Civil, Elect., Mech., Metallurgy Engineering)
13	NTPC Ltd. ( A Govt. of India Enterprises)	NTPC Limited , NTPC Bhawan, Scope Complex Core-7, Institutional area, Lodi Road, New Delhi 110003	Rs. 1500/- P.M.	For SC/ST/PC Students

**VARIOUS STATE LEVEL SCHOLARSHIPS FOR MERITORIOUS STUDENTS / SC/ST/OBC (UG STUDENTS)**

S. No.	Respective State	Board of Higher Education/Board of Higher Secondary /Technical Education/State Govt./Central Govt. Etc.
1.	Bihar	Post Matric Scholarship,
2.	Jharkhand	Post Matric Scholarship
3.	Orissa	Post Matric Scholarship
4.	Gujarat	Post Matric Scholarship
5.	Uttaranchal	Post Matric Scholarship
6.	Maharashtra	Post Matric Scholarship / National and State Merit Scholarship
7.	M. P.	Post Matric Scholarship, Bhopal, etc./ National Scholarship M.P.
8.	Goa	Post Matric Scholarship
9.	West Bengal	Post Matric Scholarship, Kolkatta
10.	U. P.	Post Matric Scholarship Lucknow
11.	Manipur	Post Matric Scholarship Imphal
12.	Punjab	Post Matric Scholarship
13.	J & K	Post Matric Scholarship
14.	Andman Nicobar	Post Matric Scholarship
15.	Kerala	Post Matric Scholarship Thiruvananthapuram
16.	Tripura	Post Matric Scholarship / State Merit Agartella
17.	Andhra Pradesh	Post Matric Scholarship Hyderabad
18.	Assam	Post Matric Scholarship/ Technical Engineering Merit Scholarship Khilapara, Guwhati
19.	Tamilnadu	Post Matric Scholarship / Adi Dravidar Tribal Welfare (Chennai)
20.	Haryana	Post Matric Scholarship

21.	Nagaland	Post Matric Scholarship Kohima
22.	Karnataka	Post Matric Scholarship Karnataka
23.	Himachal Pradesh	Post Matric Scholarship /Brilliance Merit
24.	Govt. of Rajasthan	Post Matric Scholarship Dy. Director Social Welfare Dept. SC/ST/OBC/SBC
25.	Govt. of Rajasthan	Physical Handicapped scholarship Social Welfare Dept.
26.	Rajasthan	Ex-serviceman Scholarship
27.	New Delhi, Govt. of India (MHRD)	Central Sector Scholarship Scheme of Top Class Education for Schedule Caste (SC) students and Schedule Tribe (ST) Students
28.	New Delhi, Govt. of India	Merit Cum Means based scholarship scheme belonging to the minorities communities
29.	New Delhi	National Talent Search Scholarship (NCERT)
30.	New Delhi	Indian Oil Scholarship (IOC)
31.	Meghalaya	State Merit Scholarship /North Eastern Council plan Shillong
32.	Chattisgarh	Technical Education Scholarship Raipur
33.	DRDT Jaipur	DRDT Jaipur Govt. of Rajasthan
34.	Rajasthan	Bord of Secondary Education, Rajasthan Ajmer.
35.	NCT Of New Delhi	Merit Scholarship , Dept. For the Welfare of SC/ST/OBC/MIN.

## 11.12 TRAINING AND PLACEMENT STATISTICS

### TRAINING

The academic curriculum provides for 60 days of Practical/Industrial Training during summer vacation after VI semester. The Placement and Training Cell facilitates the practical training of students in Companies/Industries/Organizations of National and International repute. Some of the students also get Research Internship offers from Germany, Canada, UK, Singapore, South Korea, Finland etc. Students also go for research projects as summer interns in IIT's, IISc, IIM's and CEERI Pilani

Some of prominent organizations include NTPC, BHEL, SAIL, IOCL, BPCL, DRDO, C-DOT, ISRO, MARUTI, HERO HONDA & IT companies. Placement Statistics 2010-11

In the academic session 2010-11, 104 organizations visited the institute for the recruitment of B.Tech. students and selected 444 students with total offers of 659 out of total 360 eligible candidates. In addition to this 45% of M.Tech./MBA/M.Sc. were selected. The maximum and average packages offered are 9.88 LPA and 4.44 LPA respectively. Branch wise percentage placement of students in various organizations is indicated below.

**BRANCH-WISE % PLACEMENTS**

S. No.	Branch	No of Eligible Students	No. of Eligible Placed	% Eligible Placed	Total No of Students	Total No of Placements	Total % of Placements
1	Chemical Engg.	40	40	100.0	53	69	130.2
2	Civil Engg.	49	49	100.0	63	78	123.8
3	Computer Engg.	44	44	100.0	58	89	153.4
4	ECE	49	49	100.0	65	105	161.5
5	Electrical Engg.	46	46	100.0	61	78	127.9
6	IT	45	45	100.0	60	103	171.7
7	Mechanical Engg.	51	50	98.0	65	81	124.6
8	Met. & Mat. Sc.	36	36	100.0	51	56	109.8
	<b>Total</b>	<b>360</b>	<b>359</b>	<b>99.7</b>	<b>476</b>	<b>659</b>	<b>138.4</b>

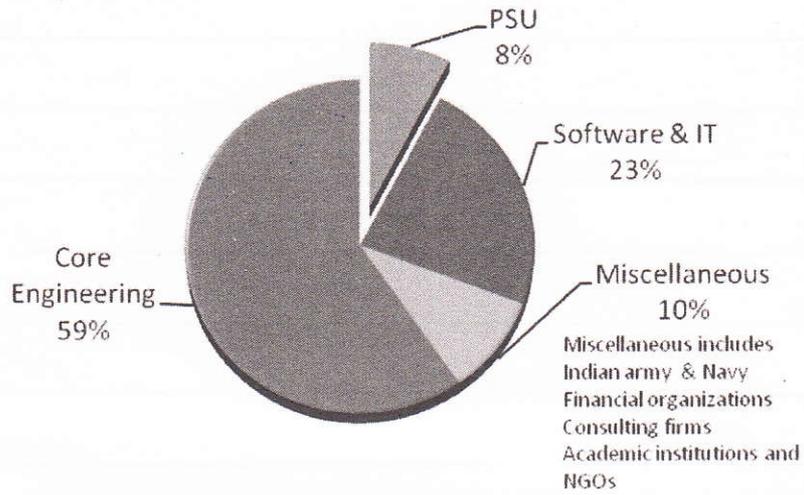
**Branch-wise Annual Pay Package offered**

S. No.	Branch	Pay Package (In Rs. Lacs/Annum)					Total
		> 6.5	6.5 - 5	5 - 4	4 - 3	< 3	
1	Chemical Engg.	3	-	35	30	1	69
2	Civil Engg.	9	-	17	42	10	78
3	Computer Engg.	16	6	39	28	-	89
4	ECE	11	8	36	50	-	105
5	Electrical Engg.	12	8	21	35	2	78
6	IT	7	6	53	37	-	103
7	Mechanical Engg.	22	10	23	26	-	81
8	Met. & Mat. Sc.	1	-	11	44	-	56
	<b>Total</b>	<b>81</b>	<b>38</b>	<b>235</b>	<b>292</b>	<b>13</b>	<b>659</b>

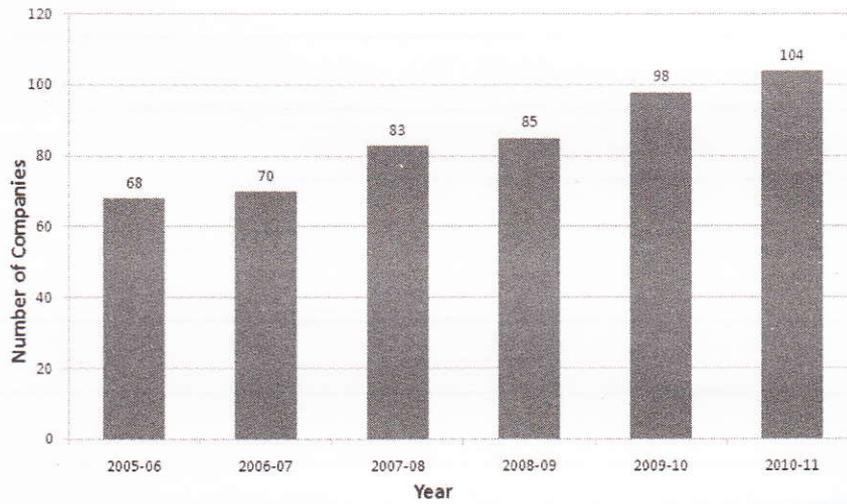
**Salient Features of Placement 2010-11**

- Highest Pay Package - 9.88 LPA (Lacs Per Annum)
- Average PayPackage - 4.44 LPA (Overall)
- Highest Average Pay Package - 5.62 LPA (Mechanical Engg.)
- Numbers of Companies Visited - 104 (Highest so far)
- Number of Students with Multiple Placements- 195(Highest so far)
- Total Overall Percentage Placement out of Eligible Candidates - 99.7%(Highest so far)
- PG Placements - 45% (Manifolds in comparison to previous years)

### Number of Companies Visited - 104



### Number of Companies Visited



### Average Pay Package

