

# Annual Report

2009-10



**MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR**

**JAIPUR 302017**

**Postal Address** : **Malaviya National Institute of Technology Jaipur**  
**Jawahar Lal Nehru Marg,**  
**Jaipur, Rajasthan (India) 302 017**

**Telephone** : **0141-2529087**

**Fax** : **0141-2529029**

**Editorial Board** : **Prof. Rohit Goyal**  
Professor, Deptt. of Civil Engg.  
Convener

**Mr. Ashok Agarwal**  
Associate Professor, Deptt. of Electrical Engg.  
Member

**Dr. Kanupriya Sachdev**  
Associate Professor, Deptt. of Physics  
Member

**Ms. Nanny Tripathi**  
Associate Professor, Deptt. of Humanities  
Member

**Mr. Tarush Chandra**  
Associate Professor, Deptt. of Architecture  
Member

**Mr. Lava Bhargava**  
Assistant Professor, Deptt. of ECE  
Member

**Mr. Sumit Khandelwal**  
Assistant Professor, Deptt. of Civil Engg.  
Member

# CONTENTS

## ANNUAL REPORT 2009-10

S.No.	Particulars
	REVIEW
1.0	INTRODUCTION
	1.1 Vision and Mission Statement
	1.2 Quality Policy
	1.3 Education System
	1.4 New Initiatives
2.0	AN OVERVIEW
	2.1 Historical Background
	2.2 Location
	2.3 Campus
	2.4 Administration
	2.5 Academic Programmes
	2.6 Courses offered
	2.7 Admission Procedure
	2.8 Students Intake
	2.9 Examination and Evaluation
	2.10 Placement
	2.11 Games and Sports
	2.12 Staff Position
	2.13 Notable Achievements
3.0	THE STAFF
	3.1 Academic Staff (Teaching) (As on 31.03.2010)
	3.2 Non-Academic Staff (Non-Teaching)
	3.3 Training Status
	3.4 Placement of Staff For Academic Excellence
4.0	TEACHING PROGRAMMES
	4.1 Courses offered
	4.2 Course-Wise Enrolment
	4.3 Admission Statistics
	4.4 Students Total Strength
	4.5 The Hostels
	4.6 Scholarship/Assistance Ship
	4.7 Games and Sports
	4.8 Awards
	4.9 Examination Details
	4.10 Training and Placement

- 5.0 RESEARCH AND DEVELOPMENT ACTIVITIES
  - 5.1 Ph.D Programmes-Existing and Proposed
  - 5.2 Details of Ph.D Done So Far
  - 5.3 Proposed Plan For Research
  - 5.4 Institute-Industry Collaboration
  - 5.5 Convocation
  
- 6.0 THE COUNCIL, BOG AND OTHER COMMITTEES
  - 6.1 Board of Governors
  - 6.2 Finance Committee
  - 6.3 Building and Works Committee
  - 6.4 Other Committees
  
- 7.0 CONCESSIONS FOR SC, ST, HANDICAPPED STUDENTS
  - 7.1 Concessions Provided For Students
  - 7.2 Concessions Provided For Staff
  
- 8.0 FINANCIAL STATUS
  - 8.1 Analysis of Plan and Non-Plan Grants
  - 8.2 Sources of Funds
  - 8.3 Expenditure Position For Last Three Years
  
- 9.0 CENTRAL FACILITIES AND SERVICES
  - 9.1 Computer Services Centre
  - 9.2 Workshops
  - 9.3 Library
  - 9.4 Nodal Centre
  - 9.5 Laboratories
  - 9.6 Hospital, Post Office, Shopping Centre
  - 9.7 Physical Facilities
  - 9.8 Games and Sports Facilities
  - 9.9 Other Facilities Like Hostels, Messes, Staff Quarters, Administration

etc.
  
- 10.0 NOTABLE ACHIEVEMENTS
  - 10.1 Past Achievements
  - 10.2 Achievements Which Took Place During The Year
  
- 11.0 Annexures
  - 11.1 Board of Governors
  - 11.2 Finance, Building and Works and Other Committees

- 11.3 Research Projects and Consultation Jobs
- 11.4 Faculty Positions
- 11.5 Administrative and Other Staff
- 11.6 Staff Members Sponsored For Training and Learning
- 11.7 List of Candidates Pursuing/Awarded Ph.D Or M.Tech
- 11.8 Honours and Awards For Faculty Members
- 11.9 Research Papers and Publications
- 11.10 Courses and Admissions
- 11.11 Scholarships and Awards
- 11.12 Training and Placement Statistics

# MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR

## ANNUAL REPORT 2009-10

### 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 PROGRAMME

#### (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	No. of Seats
1.	Architecture	52
2.	Chemical Engineering	92
3.	Civil Engineering	78
4.	Computer Engineering	78
5.	Electrical Engineering	78
6.	Electronics & Communication Engineering	92
7.	Mechanical Engineering	78
8.	Metallurgical Engineering	78
9.	Information Technology	78
	<b>Total</b>	<b>704</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 admission 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.

#### (i) 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 ment 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 GOVERNERS**

The Institute is managed by Board of Governors which consists of

- (i) Chariman (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 Chariman
  - (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 worth more than Rs. 150 lakhs are currently under progress at the institute. The consultancy revenue generation has also increased in the Institute. The Institute received a grant of Rs. 1100 lakhs under the Technical Education Quality Improvement Programme (TEQIP), National Project Implementation Unit, NOIDA. The details regarding research projects and consultancy projects are provided in chapter 11.3. The research output in the form of publications in 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 along with their funding agencies are given in chapter 4.6 and 11.11.

## **TRAINING AND PLACEMENT**

The training and placement cell has been active in arranging training and placement for students. This year a total of 98 companies visited the campus and placements for the 2009-2010 batch have reached 100% placements with over 100 (30%) students having more than one placement offer. The details of the companies visited the campus and total number of selections 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**

The Institute has ten boys hostels and girls hostels having a total capacity of 1738 students. The details of the capacity and management are given in chapter 4.5 Two mega hostels (girls hostel of 600 capacity and boys hostel of 1000 capacity) are in their completion stage and will be ready for occupation from next session.

## **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**

**(P.K. Saxena)**  
**Director**

**ANNUAL REPORT**

**YEAR 2009-10**

**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 the practice 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 upgrading 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/-. Central Instrumentation facility has been set up and equipment worth more than 125.00 Lakh has been procured.

## 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 & 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 30 NIT's established in different states of the country including ten new NIT's starting from session 2009-10. Through an Act of Parliament, it has been granted the status of a Centre of Excellence since 15<sup>th</sup> 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. Thee 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 been started from the session 2008-09. M.Tech. in Disaster Assessment and Mitigation and M.B.A., Technology Management have been started from the session 2009-10.

The bedrock of any academic institution is the quality of its faculty and in this arena, MNIT is at the forefront. Our 157-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 premiere 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 recent World Bank supported Technical Education Quality Improvement Programme (TEQIP) implemented by the National Project Implementation Unit (NPIU). The institute has been sanctioned a total grant of Rs. 110 Crores, under the project to create infrastructural facilities to impart technical education of international standards. The project has now closed and very good infrastructural facilities have been created in the Institute.

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 places 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 celebration of every religious occasion and every change of season. It is, indeed, the 'Pink City', a heady mix of tradition and 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.

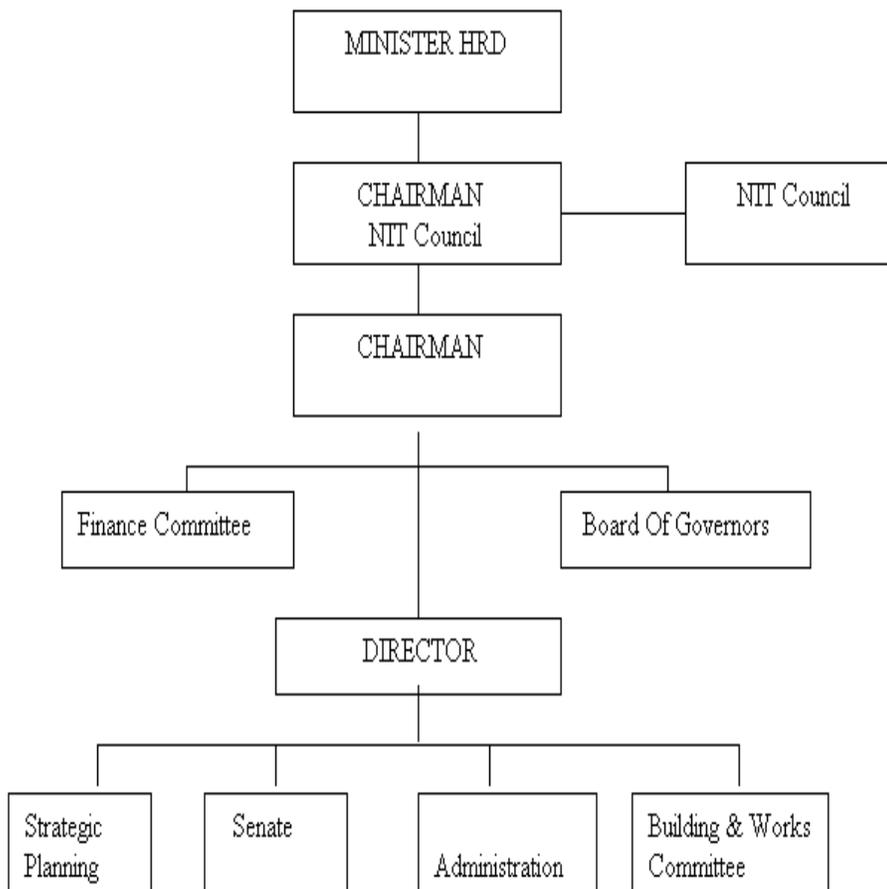
### 2.3 CAMPUS

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 The Bank of Rajasthan Ltd. 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.

#### 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 Industrialists/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 Institute to be nominated by the Chairman (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, and (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 advanced 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	No. of Seats
1.	Architecture	52
2.	Chemical Engineering	92
3.	Civil Engineering	78
4.	Computer Engineering	78
5.	Electrical Engineering	78
6.	Electronics & Communication Engineering	92
7.	Mechanical Engineering	78
8.	Metallurgical Engineering	78
9.	Information Technology	78
	<b>Total</b>	<b>704</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 of 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 704 seats for students from Rajasthan & other than Rajasthan states are as follows

STATE	ARCH	CHEM	CIVIL	COMP	ECE	ELECT	IT	MECH	MET	TOTAL
All India	15 OP 1 OPPH 4 SC 2 ST 3 OBC 1 OBCPH	23 OP 5 SC 1 SCPH 3 ST 7 OBC	23 OP 7 SC 4 ST 12 OBC	23 OP 6 SC 3 ST 6 OBC 1 OBCPH	22 OP 1 OPPH 7 SC 3 ST 12 OBC 1 OBCPH	22 OP 1 OPPH 6 SC 3 ST 7 OBC	23 OP 1 OPPH 5 SC 3 ST 7 OBC	22 OP 1 OPPH 5 SC 1 SCPH 3 ST 7 OBC	22 OP 1 OPPH 6 SC 3 ST 7 OBC	352
RAJASTHAN	14 OP 1 OPPH 4 SC 2 ST 5 OBC	22 OP 1 OPPH 6 SC 3 ST 7 OBC	23 OP 1 OPPH 7 SC 3 ST 12 OBC	23 OP 1 OPPH 5 SC 3 ST 7 OBC	24 OP 7 SC 2 ST 1 STPH 12 OBC	23 OP 5 SC 1 SCPH 3 ST 6 OBC 1 OBCPH	22 OP 1 OPPH 6 SC 3 ST 7 OBC	23 OP 6 SC 3 ST 6 OBC 1 OBCPH	22 OP 1 OPPH 6 SC 3 ST 7 OBC	352
BRANCHWISE TOTAL	52	78	92	78	92	78	78	78	78	704

### (b) Postgraduate Programmes

The number of seats for each M. Tech. programme

General	Sponsored	SC	ST	OBC	Part Time	Total
10	05	03	01	03	6	28

The number of seats for each M. Sc. programme

General	SC	ST	OBC	Total
16	04	02	04	26

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

General	SC	ST	OBC	Total
31	08	04	09	52

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

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

### 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 are process of continuous evaluation of a student, 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 progress. 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 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	--

The letter grades awarded to a student are converted into a semester and cumulative performance index called the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)

### 2.10 PLACEMENT

Placement cell of Malaviya National Institute of Technology Jaipur is pleased to announce that placements for the 2009-2010 batch have reached 100% with over 100 (30%) students having more than one placement offer.

Even at the time of global crisis, Ninety eight companies have visited our campus till date, a record in the history of MNIT. Many records were broken this year including the number of students placed which rose from 337 in the year 2008-09 to 394 this year. Average package for the year 2009- 10 is Rs 3.93 lakhs per annum. HPCL and Future first have provided compensation of 9.3 and 8.3 lakhs per annum respectively.

### 2.11 GAMES AND SPORTS

The Institute Physical Education and Sports department has created and developed a positive and healthy sports culture. Students, staff and their family members are enjoying one of the best facilities of the Institute. Regular Sports and games activities are being organized under the direction of the Sports Officer, Assistants Sports Officer, other staff and various sports captains. The mission of the department 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 fitness. The department is managing more than 3000 students and 500 staff members.

## 2.12 STAFF POSITION

The staff position is as follows

Sanctioned Faculty strength (Including Director)	236
Faculty in Position (Including Director)	157
Administrative Staff in position	7
Academic staff in position	6
Ministerial Staff in position	40
Technical staff in position	50
Other Technical Subordinate & Class IV	108
Contractual (Security Guards) + Security supervisor	60+3=63
Engaged on contract basis on consolidated salary	37
Part time on consolidated salary	05

## 2.13 NOTABLE ACHIEVEMENTS

### Students Awards

#### MNIT Jaipur participated in National level Tournaments:

S. No.	Tournament	Positions	Venue
1.	BOSM-2009	Overall Champion	BITS, Pilani
2.	All India Inter NITSports Tournament 2009	Overall Champion	NIT Suratkal
3	All India Inter NIT Cricket Tournament	Champions	NIT Durgapur
4.	Arya Cup Cricket Tournament	Runners up	Arya College of Engineering, Jaipur

#### MNIT Jaipur Organised National Level Tournaments:

S.No.	Tournament		Positions	Venue
1	MST- 09 (All India Invitational Sports Tournament)	Badminton (M) Badminton (W) Basketball (M) Football(M) Tennis(M) Tennis(W) Volleyball(M)	Winners Runners up Runners up Runners up Winners Winners Winners	MNIT Jaipur

### Placement

This year a total of 98 companies visited the Campus and 394 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 (data not found)**

Sponsored research projects worth more than Rs. 150 lakhs are currently under progress at the institute. The consultancy revenue generation has also increased in the Institute. The Institute received a grant of Rs. 1100 lakhs under the Technical Education Quality Improvement Programme (TEQIP), National Project Implementation Unit, NOIDA. The details regarding research projects and consultancy projects are provided in chapter 11.3

### 3.0

## THE STAFF

### 3.1 ACADEMIC STAFF (TEACHING) (AS ON 31.03.2009)

Designation	Name	Qualification
Director	Prof. R.P. Dahiya	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. (UrbanPlanning)
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	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.
Reader	3 Dr. Kailash Singh	B. E., M.Tech. Ph.D.
Assistant Professor	1 Mrs. Suja George	B. Tech., M.Tech.
	2 Shri Manish Vashistha	B. E., M.Tech.
	3 Ms. Madhu Agarwal	B. Tech., M.Tech.
	4 Shri Sushant Upadhyay	M.Tech.
	5 Shri Rajeev Kumar Dohre	M.Tech.

#### DEPARTMENT OF CIVIL ENGINEERING

Designation	Name	Qualification
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	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..Meena Khwairpakam	Ph.D.

#### 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.(Mrs) Vijay Laxmi	B.E., M.Tech., Ph.D.
	2	Dr. Girdhari Singh	B.E., M.S. (Software) ,Ph.D.
Assistant Professor	1	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	Miss MeenakshiTripathi	M.Tech
	7	Shri Yogesh Kumar Meena	M.Tech

#### DEPARTMENT OF ELECTRICAL ENGINEERING

Designation	Name		Qualification
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 Jhaharia	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 D. Sarswat	M.E.
	11	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. Perna Jain	B.E., M.E.
	5	Shri Rohit Bhakar	B.E. M.E.
	6	Mrs. Kusum Dangi	B.E.

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

<b>Designation</b>	<b>Name</b>		<b>Qualification</b>
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 N.S. Verma	B.E., M.E.
	2	Shri Sanjeev Agarwal	B.E., M.Tech.
	3	Shri Mohd. Salim	B.E., M.Tech.
	4	Shri M.M. Sharma	B.E., M.Tech.
	5	Shri Rakesh Bairathi	B.E., M.Tech.
	6	Dr. Vinit Sahula	B.E., M.Tech., Ph.D.
	7	Dr. Vijay Janyani	B.E., M.E., Ph.D.
	8	Dr. K.K. Sharma	B.E., M.E. Ph.D.
	9	Shri D. Boolchandani	B.E., M.Tech.
	10	Shri Tarun Verma	B.E., M.E.
Assistant Professor	1	Shri Lava Bhargava	B.E., M.E.
	2	Mrs. Ritu Sharma	B.E.
	3	Shri Ghanshyam Singh	B.E. ,M.Tech.
	4	Ms. Lalita Aseri	B.E.
	5	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	B.E. , 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. Himanshu Choudhary	M. Tech., Ph.D.
	6	Dr G.D. Agarwal	B.E., M.Tech. Ph.D.
	7	Dr M.L. Mittal	B.E., M.E. Ph.D.
	8	Shri N.S. Yadav	B.E.
	9	Shri Amit Panchariya	B.E., M.Tech.
	10	Shri T.C. Gupta	A.M.I.E., M.Tech.
	11	Shri Nirupam Rohtagi	B.E., M.E.
Assistant Professor	1	Shri Makhan Lal Meena	M.Tech.

**DEPARTMENT OF METALLURGICAL AND MATERIALS 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. R.K. Yadav	B.Sc.(Met),M.Sc. (Met), Ph.D.
	4	Dr. C.P. Sharma	B.E., M.E., Ph.D.
	5	Dr. A.K. Bhargava	B.E., M.E., Ph.D.
	6	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 Kumar Duchaniya	M.E.

**DEPARTMENT OF STRUCTURAL ENGINEERING**

<b>Designation</b>	<b>Name</b>		<b>Qualification</b>
Professor	1	Dr. Ravindra Nagar	B.E., M.Tech., Ph. D.
	2	Dr. Anurag Mishra	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.
Assistant Professor	1	Shri Rajesh Gupta	B.E., M.E.
	2	Shri Vinay Agarwal	B.E., M.E.

**DEPARTMENT OF CHEMISTRY**

<b>Designation</b>	<b>Name</b>		<b>Qualification</b>
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**

<b>Designation</b>	<b>Name</b>		<b>Qualification</b>
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. R.C. Soni	M.Sc., M.Phil, Ph. D.
	3	Dr. (Mrs.) Vatsala Mathur	M.Sc., 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. K.R. Soni	M.Sc., Ph. D.
	2	Dr. S.K. Sharma	M.Sc., Ph. D.
	3	Dr. K.C. Swami	M.Sc., Ph. D.
Associate Professor	1	Dr. (Mrs.) K. Sachdev	M.Sc., Ph. D.

**3.2 NON-ACADEMIC STAFF (NON- TEACHING)****ADMINISTRATIVE & OTHER STAFF****(a) Chief Academic & Executive officer**

S.No.	Designation	Name	Qualification
1	Director	Prof. R.P. Dahiya	Ph.D

**(b) Administrative Staff**

S.No.	Designation	Name	Qualification
1.	Registrar	Shri P.S. Dhaka	MBA
2	Dy. Registrar (A/cs)	Shri Suresh Chandra (on deputation)	-
3	Dy. Registrar (Admn.)	-	-
4	PS to Director	-	-
5	Executive Engineer	-	-
6	Estate Engineer	Shri C.M.Saini	AMIE
7	Asstt. Registrar	-	-
8	Medical officer	-	-
9	Stores officer	Sh. Bhurendra Singh	B.A., L.L.B.
10	Asstt. Stores officer	-	-
11	Section officer	Dr. (Mrs.) Suman Rathore	M.A., Ph.D.
12	Internal Auditor/ AAO	Shri R.K.Dubey	M.com.,LLB
		Shri Birbal Singh	MA
13	Sr. P.A.	-	-
14	Assistant Engineer (Civil) &	-	-

	(Electrical)		
15	Horticulture officer	-	-
16	Asstt. Sports officer	-	-
17	Asstt. Controller of Exam.	-	-
18	Security officer	-	-

**(c) Academic Staff**

S.No.	Designation	Name	Qualification
1	Sports officer	Dr. Subir Debnath	B.P.E., M.P.E., M.Phil, NET, NSNIS (Football), PGDHRM, Ph.D.
2	Librarian	Shri Deep Singh	M.A., (Pub. Adm.) & M.L.I.Sc.
3	Asstt. Librarian	Smt. Kamla Joshi	M.A., M.LIS
4	Estate Engineer	Shri C.M. Saini	AMIE
5	Foreman	-	-
6	Asstt. Foreman	Shri R.N. Mittal	Dip.in Mech. Engg.

**(d) Computer Centre**

S.No.	Designation	Name	Qualification
1	System Analyst	Dr. A.K. Solanki	Ph.D.
2	Programmer	-	-

**(e) CMSIC**

S.No.	Designation	Name	Qualification
1	Programmer	Shri Sanjay Rajpal	M.C.A.

**STATEMENT SHOWING THE STAFF POSITION**

The statement of staff positions is given in Annexures 11.4 and 11.5

**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	Shri Satish Pipralia	Architecture	Ph.D.	QIP
2	Shri Manish Vashistha	Chemical Engg.	Ph.D.	QIP
3	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.), 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. is also offered.

The medium of instructions and examinations is English.

### 4.2 COURSE-WISE ENROLMENT

S. No.	Branch	I Year	II Year	III Year	IV Year	V Year	Total
1	Architecture (5 years)	48	44	38	36	21	<b>188</b>
2	Civil Engg. (4 years)	93	90	65	56	0	<b>307</b>
3	Chemical Engg. (4 years)	78	65	58	52	0	<b>253</b>
4	Computer Engg. (4 years)	79	74	64	63	0	<b>278</b>
5	Electrical Engg. (4 years)	81	68	62	57	0	<b>267</b>
6	Electronics & Communication Engg. (4 years)	92	79	69	67	0	<b>305</b>
7	Information Technology (4 years)	80	72	62	58	0	<b>273</b>
8	Mechanical Engg. (4 years)	78	71	65	52	0	<b>268</b>
9	Metallurgical Engg. (4 years)	72	48	61	50	0	<b>229</b>
	<b>TOTAL</b>	<b>701</b>	<b>611</b>	<b>544</b>	<b>491</b>	<b>21</b>	<b>2368</b>

**SC/ST/GIRLS ADMITTED DURING 2008-09**

	Civil	Elect.	ECE	Mech.	Met.	Arch.	Chem.	Comp.	I.T.	Total
<b>SC</b>	14	14	14	12	12	7	12	11	12	<b>108</b>
<b>ST</b>	7	6	6	6	4	3	6	7	6	<b>51</b>
<b>Girls</b>	8	10	10	4	12	12	17	21	20	<b>114</b>

**4.3 ADMISSION STATISTICS**

- (a) **Students admitted to Undergraduate B. Tech./B.Arch. programmes through AIEEE during the session 2009-10**

<b>Branch</b>	<b>Students admitted</b>
Civil Engg.	93
Electrical Engg.	81
Electronics & Comm. Engg.	92
Mechanical Engg.	78
Metallurgical Engg.	72
Chemical Engg.	78
Computer Engg.	79
Information Technology	80
Architecture	48
<b>Total</b>	<b>701</b>

- (b) **Students admitted to Postgraduate Programmes during the session 2009-10**

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

<b>Branch</b>	<b>Students admitted</b>
Environmental Engg.	22
Transportation Engg.	21
Water Resources Engg.	00
Structural Engg.	16
Power Systems	18
Electronics & Comm. Engg.	20
Manufacturing System Engg.	20
Metallurgical & Materials Engg.	13
Chemical Engg.	20
Energy Engg.	20
VLSI Design	17
Computer Engg.	20
M. Planning	09
M. Sc. in Physics	13
M. Sc. in Chemistry	28
M. Sc. in Mathematics	00

M. B. A.	47
M. B. A. Technology Management	16
<b>Grand Total</b>	<b>320</b>

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

<b>Branch</b>	<b>Students admitted</b>
Environmental Engg.	1
Power Systems	5
Electronics & Comm. Engg.	3
Manufacturing System Engg.	4
Structural Engg.	4
Transportation Engg.	4
Chemical Engg.	0
Energy Engg.	0
VLSI Design	0
Computer Engg.	3
M. Planning	0
<b>Grand Total</b>	<b>24</b>

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

<b>S. No.</b>	<b>Department</b>	<b>Students admitted</b>	
		<b>Full Time</b>	<b>Part Time</b>
1.	Chemical Engineering	2	0
2.	Chemistry Dept.	2	0
3.	Civil Engineering	3	4
4.	Computer Engineering	2	1
5.	Electrical Engineering	1	1
6.	Electronics & Communication Engg.	2	8
7.	Humanities & Social Science	1	4
8.	Management Studies Dept.	0	0
9.	Mathematics Dept.	3	0
10.	Mechanical Engineering	2	4
11.	Metallurgical & Materials Engineering	0	0
12.	Physics Dept.	0	1
13.	Structural Engineering	2	3
	<b>Grand Total</b>	<b>20</b>	<b>26</b>

**4.4 STUDENTS TOTAL STRENGTH (UNDER GRADUATE)**

<b>S. No.</b>	<b>Branch</b>	<b>I Year</b>	<b>II Year</b>	<b>III Year</b>	<b>IV Year</b>	<b>V Year</b>
1	Architecture (5 years)	48	44	38	36	21
2	Civil Engg. (4 years)	93	90	65	56	-
3	Chemical Engg. (4 years)	78	65	58	52	-
4	Computer Engg. (4 years)	79	74	64	63	-
5	Electrical Engg. (4 years)	81	68	62	57	-

6	Electronics & Communication Engg. (4 years)	92	79	69	67	-
7	Information Technology (4 years)	80	72	62	58	-
8	Mechanical Engg. (4 years)	78	71	65	52	-
9	Metallurgical Engg. (4 years)	72	48	61	50	-
	<b>TOTAL</b>	<b>701</b>	<b>611</b>	<b>544</b>	<b>491</b>	<b>21</b>

#### 4.5 THE HOSTELS

There are ten hostels for the students of our Institute. Two mega hostels (girls hostel of 600 capacity and boys hostel of 1000 capacity) are in their completion stage and will be ready for occupation from next session. The details of rooms are as follows:

Hostel No.	Single Seated Rooms	Double Seated Rooms	Triple Seated Rooms	Total Capacity
1	72	-	36	180
2	72	-	36	180
3	72	-	36	180
4	72	36	-	144
5	182	-	-	182
6	72	-	36	180
7	-	-	75	225
8	225	-	-	225
Girls Hostel	48	68	14	226
P.G. Hostel	16	-	-	16
<b>GRAND TOTAL</b>	<b>831</b>	<b>104</b>	<b>233</b>	<b>1738</b>

#### Administrative set up for Hostels

S.No.	Admn. Warden	Mess Warden	Mess Assistants	Caretakers	Gardener	Peon
1	8	7	7	5	4	1

The Institute hostels are managed and run by a team consisting of Dean of Student Affairs, one Administrative Warden and one Mess Warden, for each of the seven boys hostels (P. G. Hostel is clubbed with Hostel No.1) and two lady wardens for the Girls Hostels and to assist them, there is hostel staff comprising of one Manager of Hostels, one Mess Supervisor, one Lady Superintendent for Girls Hostel, six Mess Assistants, six Care Takers, one U.D.C., two Store Keepers and other supporting staff such as Chowkidars, Peons, Gardeners and Sweepers. External telephone facility is available in Girls Hostel. Two STD booths are provided near the Boys Hostels.

#### Hostel/ Mess Management

A mess block is attached to each hostel except the P.G. Hostel. Each mess is managed by the Students Mess Committee consisting of Mess Secretary and Mess Members and assisted by mess servants. Entire salary of the mess servants is borne by the students themselves.

There is one Common Room for each hostel, having the facility of a colour television, Hindi and English News Papers and one Table Tennis table. The administration has provided Aquaguards (Water Filter) in each hostel and mess, and extra Sintex tank in each mess and hostel.

### **Other Details**

1. Allotment of rooms in hostels is done class-wise in a random manner.
2. Hostel No.2 (Single Seated) and Hostel No.5 are reserved for Final year students and Hostel No. 1 and 2 (Triple Seated) are reserved for First year students.
3. All messes are vegetarian. Eggs are served as and when decided by Mess Committees.
4. Residents of a particular hostel dine in mess of that hostel only.
5. Card system for members of the mess is practised, thereby preventing any unauthorized entry to the messes.
6. Ragging of freshers by the senior students is totally banned. This has been possible with the able guidance of the Director and active co-operation of the faculty members, Proctor, Chief Warden, Wardens and other members of the hostel staff. Patrolling duties during night were performed by the Wardens for about three months from the date of admission of I year students in order to check ragging of the freshers.

### **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 department has created and developed a positive and a healthy sports culture. Students, staff and their family members are enjoying one of the best facilities of the Institute. Regular Sports and Games activities are being organized under the direction of the Sports officer, Assistant Sports officer, other staff and various sports captains. The mission of the department 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 fitness. The department is managing more than 3000 students and 500 staffmembers. The existing games and Sports facilities are:

#### **INDOOR FACILITIES**

Modern Gymnasium, Badminton court, Billiard room, Table Tennis, Chess, Weight Training and Power lifting.

#### **OUTDOOR FACILITES**

Tennis Courts (Flood Light), Volleyball Courts(Flood Light), Basketball Courts(Flood Light), Cricket Nets, Cricket Field, Football Field and Athletic Track and Field.

#### **ACHIEVEMENTSMNIT**

Games and Sports has achieved a mile stone by winning with Records for the period from 1<sup>st</sup> April 2009 to 31<sup>st</sup> March 2010 are as follows:

- a) MNIT became the overall Champion in the All India Sports Tournament BOSM'09 (BITS, Pilani, Rajasthan). Dr. Virender Singh, Assistant Sports officer was the Coach-cum-manager of the contingent.
- b) MNIT became the overall Champion in the All India Inter NIT Sports Tournament, (Suratkal, Karnataka). Dr. Virender Singh, Assistant Sports officer was the Coach-cum-manager of the contingent.
- c) MNIT became the Champion in the All India Inter NIT Cricket Tournament, (NIT Durgapur, West Bengal). Dr. N.C.Upadhya was the Coach-cum-manager of the contingent.
- d) MNIT Basketball and Chess team participated in the All India Inter NIT sports Tournament, (NIT Surat, Gujrat) and lost in the semifinals. Sh. Rajesh Saxena and Sh. Rajeev Goswami were the Coach-cum-manager of the contingent.
- e) MNIT cricket team became Runner's up in the Arya Cup Cricket Tournament 2009, organized by Arya College of Engineering, Jaipur.

#### **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.	52	22	18	11	1	52

Chemical Engg.						
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	-	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				10
M. Tech. in Water Resources Engg.	-	-	-	-	-	-
M. Tech. in Transportation Engg.	14	14	-	-	-	14
M. Tech. in Power Systems	15	10	5	-	-	15
M. Tech. in Electronics & Comm. Engg.	18	16	2	-	-	18
Manufacturing System Engg.	10	6	2	2	-	10
M. Tech. in Non-ferrous (Met.)	-	-	-	-	-	
M. Tech. in Structure Engg.	11	10	1	-	-	11
M. Tech. in Chemical Engg.	9	6	3	-	-	9
M. Tech. in VLSI Design	16	14	1	1	-	16

M. Tech. in Energy Engg.	9	5	4	-	-	9
M.Sc. in Chemistry	20	16	3	1	-	20
M. Sc. in Physics	16	7	8	1	-	16
MBA	32	19	12	1	-	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 teaching curriculum provides for 75 days of Practical Training in two spells of 30 and 45 days after IV and VI semester examination, respectively.

##### **Placement**

Placement cell of Malaviya National Institute of Technology Jaipur is pleased to announce that placements for the 2009-2010 batch have reached 100% with over 100 (30%) students having more than one placement offer. The details are given in chapter 11.12.

#### **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 worth more than 150 lakhs are currently under progress at the Institute. The consultancy revenue generation has also increased in the Institute. Consultancy projects worth more than 158.00 lakhs have started during this year. The Institute received a grant of Rs. 1100 lakh under the Technical Education Quality Improvement Programme (TEQIP), National Project Implementation Unit, Noida.

## 5.1 Ph.D. PROGRAMMES

The Institute offers a full time/part time advanced programme leading to Ph.D. degree in the areas of Engineering/Technology/Sciences/Humanities & Social Sciences. Admission to this programme 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.

<b>Minimum Qualifications</b>	<b>Normal duration</b>	<b>Maximum duration</b>
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. DONE SO FAR

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 2003.

<b>Branch</b>	<b>Total degrees</b>
Chemistry	01
Structure Engg.	01
Chemical Engg.	01
Computer Engg.	01
Mathematics	01
<b>TOTAL</b>	<b>05</b>

## 5.3 PROPOSED PLAN FOR RESEARCH

Each department of the Institute has identified its area of strength and intends to focus on these areas for best results. Full-Time Ph.D. studentships are also proposed and 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.

#### Visitors to the Cell

S. No.	Name of the Visitor	Designation	Affiliation	Purpose and Date
1.	Mr. Rameshwar Prakash	Director	Gems and jewellery Association	02/02/2010
2.	Mr. Ajay Gupta	M.D.	Kamtech. Associates Jaipur	03/02/2010
3	Mr. V.D. Narang	Ex. Director,	SISI	21/02/2010
4.	Mr. R.K. Gupta		VKI Industrial association	22/03/2010

## 5.5 CONVOCATION

Fifth Convocation was held on 8<sup>th</sup> November 2009. Mr. Digvijaya Singh, Ex-Chief Minister Madhya Pradesh was Chief Guest and Prof. Najeeb Jung, Vice Chancellor of Jamia Milia Islamia, Delhi, and Shri Arvind Jadhav, Chairman & Managing Director; Air India was Guest of Honour of this function. Gold Medals were also awarded to the students who stood first among the respective branches of undergraduate and postgraduate programmes. Two alumni awards were also conferred on distinguished alumni.

### B. Arch. Degrees awarded

Branch	Total degrees
Architecture	21

### B. Tech. degrees awarded

Branch	Total degrees
Civil Engg.	47
Chemical Engg.	25
Computer Engg.	58
Electrical Engg.	56
Electronics & Comm. Engg.	62
Information Technology	57
Mechanical Engg.	55
Metallurgical Engg.	38
<b>TOTAL</b>	<b>398</b>

### M. Sc. degrees awarded

Branch	Total degrees
Physics	16
Chemistry	20

### M. Tech. degrees awarded

Branch	Total degrees
Chemical Engg.	09
Environmental Engg.	10
Transportation Engg.	14
Power Systems	16
VLSI Design	16
Electronics & Comm. Engg.	18
Manufacturing Sys. Engg.	10
Energy Engg.	09

Structural Engg.	11
<b>TOTAL</b>	<b>113</b>

**M. B.A. degrees awarded**

<b>Branch</b>	<b>Total degrees</b>
MBA	29

**Ph.D. degrees awarded**

<b>Branch</b>	<b>Total degrees</b>
Chemistry	01
Structural Engg.	01
Chemical Engg.	01
Computer Engg.	01
Mathematics	01

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

### **6.1 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)	Scheduled Caste candidates	15%
(ii)	Scheduled Tribe candidates	7.5%
(iii)	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.

## 8.0 FINANCIAL STATUS

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

During the year 2009-10 the Institute received grants under Plan and Non-plan (entirely from Government of India) as given below :

<i>(Rs. in Lakhs)</i>	
<b>Plan Grant</b>	
(i) Non Recurring (Building, Equipment, etc.)	400.00
(ii) Project Grants (MODROB, TAPTEC & R & D, TEQIP)	57.44
(iii) Plan (OBC)	3500.00
(iii) Other Plan Activities	50.58
<b>TOTAL (Plan Grant)</b>	<b>4008.02</b>
<b>Non-plan Grant</b>	
(i) (UG/PG Courses)	3518.00
(ii) Other Grants	39.06
<b>TOTAL (Non-plan Grant)</b>	<b>3557.06</b>
<b>GRANT TOTAL (Plan &amp; Non-plan Grant)</b>	<b>7565.08</b>

### 8.2 SOURCE OF FUNDS

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

### 8.3 EXPENDITURE POSITION FOR LAST THREE YEARS

*(Plan, Non-plan & TEQIP)*

<i>(Rs. in Lakhs)</i>	
Year	Expenditure
2007-08	2776.18
2008-09	3257.22
2009-10	7012.69

## 9.0 CENTRAL FACILITIES AND SERVICES

### 9.1 CENTRAL COMPUTER CENTRE

The Central Computer Centre, a central facility of the Institute since 1989, manages the extensive academic computing & networking facilities of the Institute, providing the Institute community with state-of-art facilities to cater to their computational needs and access to internet resources of the Institute.

The Central Computer Center has undergone a complete change as the Center has been provided with new desktop and has been modernised. The entire campus has been provided with state of the art network. It has been extended on optical fiber backbone to cover each and every corner of the Institute. The capus has also been made Wi-Fi.

The Centre is equipped with state of the art equipments. The facilities provided in the centre are organized in three laboratories, hardware & software central Pool and all the laboratories are connected to the internet

A leased line with 34 Mbps Internet bandwidth provides connectivity to the outside world.

The Institute Network now covers the entire academic area including hostels, sports office, dispensary, and guest houses. With additional 8 locations through ADSL connectivity and 300 points through CAT-5 and optical fiber backbone the Institute gives 24 x 7 internet connectivity to give access for browsing and e-mailing to everyone in the Institute.

### 9.2 WORKSHOPS

There exist 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 m (space per student – 7.5 sq m)

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.

#### 2. Member

a)	Students	2462
b)	Faculty and staff members	403

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

a)	Main Library Counter	77,000 per year
b)	Book Bank	58,000 per year

**No. of Visitors (on Membership basis) approx.** 300 Per day  
(Faculty, Staff, Students and fee based members)

**Timings**

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

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

**3 Digitization**

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

S.No.	Electronics Resources	URL
1	ACM Digital Library	<a href="http://portal.acm.org/portal.efm">http://portal.acm.org/portal.efm</a>
2	ASCE Journals	<a href="http://www.pubs.asce.org/journals/uns.html">http://www.pubs.asce.org/journals/uns.html</a>
3	ASME Journals	<a href="http://www.asme.org/pubs/journals">http://www.asme.org/pubs/journals</a>
4	ASTM Standards and Journals	ASTM Standards and ASTM Journals
5	IEL Online	<a href="http://ieeexplore.ieee.org">http://ieeexplore.ieee.org</a>
6	Indian Standards	Intranet Version
7	Nature	<a href="http://www.nature.com/">http://www.nature.com/</a>
8	ProQuest Science	<a href="http://www.il.proquest.com/pgdauto">http://www.il.proquest.com/pgdauto</a>
9	Springer Verlag's Line	<a href="http://www.springerlink.com/">http://www.springerlink.com/</a>
<b>Bibliographic Databases</b>		
10	J-Gate Custom Content for Consortia	<a href="http://jccc-indest.informindia.co.in/">http://jccc-indest.informindia.co.in/</a>
11	Science Direct	<a href="http://jccc-indest.informindia.co.in/">http://jccc-indest.informindia.co.in/</a>

- ii) CD-Net Server & Electronics billing Machine have been purchased and to be connected with INTRANET and Library Software respectively.
- iii) BIS Codes Online (Through Intranet)
- iv) CD-Rom Database (50 CD-ROMs on engineering subjects)
- v) Applied Science & Technology Plus (ASTP)
- vi) Bibliographical Databases of foreign journals about 6000 journals being received by all IITs & IIS Bangalore and IIMS (under JCCC site)

**4 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 DELNET Services

- 9 Inter Library Loan (ILL) Services through DELNET
- 10 Reference Services
- 11 BIS and IRC Codes
- 12 Attending Users queries
- 13 Display of New Arrivals
- 14 Display of Important notices/ pamphlets etc.
- 15 Services to outside members

## **5 Additional information:-**

- 1 New Purchased books have been added to the Circulation holdings and Reference Sources.
- 2 Glazing work (aluminium with Glass partitions has been done for air conditioning)
- 3 A.Cs. have been procured and are being installed.
- 4 UPS Batteries have been purchased and installed.
- 5 Two Servo Stabilizers have been purchased and installed.
- 6 30 New P.Cs ( 24 CRT & 6 TFT) have been purchased and installed for Digital Library for the users and staff.
- 7 16 PCs ( old-P-III) have been shifted from CCC Lab. to Library.
- 8 Library Software ( Libsys) has been switched over from UNIX O.S. to LINUX O.S. Platform.
- 9 Wiring for Internet Connectivity has been completed under CWN work.

## **6 Future Plan**

- 1 Digital Library (having about 40 terminals + related furniture & connectivity) will be made available to the users very soon.
- 2 CD-Networking services and installation of electronic billing machine
- 3 OPAC ( Online Public Access Catalogue)
- 4 Fire safety measures
- 5 Furniture + Book Steel Racks will be purchased.

## **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 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 270 technical institutions located in Rajasthan.

- 81 Degree Level Engineering
- 46 Diploma Level (Both Men & Women) (including 12 polytechnics colleges opened during 2008-09.
- 76 MBA institutions.

- 42 B.Pharma Institutions.
- 27 D.Pharma Institutions.
- 5 Hotel Management and Catering Technology

### **Various Activities of Nodal Centre, during April 2009 to March 2010.**

- 1) Completed “Annual Technical Manpower Review (ATMR)” for Rajasthan for the year 2007. It includes:
  - (a) **Graduate Follow-up Survey 2004 & 2008:** This consists of the survey of the P.G.Degree, Degree & Diploma Students passed out in a particular year( in our case it is year 2004). Also during this year we have started Graduate Follow-up survey for the Year 2008 for the preparation of Annual Technical Manpower Review 2008 (according to new methodology)
  - (b) **Institutional Survey 2005-06 and 2008-09:** This consists of collecting information form the technical Institutions regarding Branch-wise Sanctioned Intake, Outturn, Technical Teaching Staff position, Number of students studying in different years etc.
  - (c) **Establishment Survey 2005-06:** Board of Apprenticeship Training, Kanpur, conducts this survey.
- 2) Prepared migration reports & lists for the year 2004 & 2005 and sent to concerned Nodal Centres.
- 3) Completed coding of data, its entry in computer and compilation, for the year 2004.
- 4) Mail Survey of the Year-2004 for the Annual Technical Manpower Review-2008 has been completed. Preparation of Annual Technical Manpower Review-2008 (according to new methodology) is under process.
- 5) Received filled up Institutional Questionnaire for the year 2005-06 and 2008-09 from the Engineering (Degree and Diploma), MBA, Pharmacy and Hotel Management institutions in Rajasthan.
- 6) 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.

### **Staff List at Nodal Centre (NTMIS) with Qualifications:**

<b>S. No.</b>	<b>Name</b>	<b>Designation</b>	<b>Qualification</b>
1.	Sh. Rajeev Shringi	Professor Incharge, Nodal Centre	M.Arch, M.U.P
2.	Sh. Narendra Kumar	Project Officer	M.E. (Civil)
3.	Sh. Deepak Atolia	Computer Programmer	MCA, M.Sc.(Statistics) & A- Level (DOEACC)

4.	Sh. Anand Behari Mathur	Field Investigator	M.A.
5.	Sh. Raghav Bhatt	Field Investigator	B.Com.
6.	Sh. B.S. Kumawat	Field Investigator	B.A.
7.	Sh. Ajay Singh Shekhawat	Field Investigator	M.A
8.	Sh. Mahesh Gujar	Peon	8 <sup>th</sup>

## 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, M. Tech. and M.Sc. 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. M.Tech. and M.Sc. 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 four categories

Academic Area

Administrative area

Residential block

Games and sports facilities.

A detailed Institute map is given on inside back cover of this report.

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

1. Finalisation of Architect for Campus Master Planning and Architectural Consultancy of Proposed Building Works: Architectural firm has been finalized for master planning of campus and planning & design of proposed buildings through design competition. Firm has already submitted the draft conceptual master plan of the Campus.
2. Planning and design of Boys (1000 capacity) and Girls Hostel (400 capacity) has been started.
3. Provision of Power Backup through DG Sets: Full power back has been given to Central Computer Centre, Administrative Block, Library, Senate Room, Guest Houses and Girls Hostel through installation of four DG-sets (2 x 100 KVA plus 4 x 25 KVA rating). Work has already been completed except in girls hostel.
4. Refurbishment of Design Centre, Conference Rooms and Seminar Hall: Refurbishment of three facilities i.e., seminar hall, conference room and meeting room at design centre is in progress and will be completed soon.
5. Construction of Canteen cum Visitors Room in Girls Hostel: Construction of canteen cum visitor's room in girls hostel has been completed.
6. Interlocking Tiling along the Roads: To maintain the cleanliness on the road berms, to facilitate the pedestrian movement and to provide paved parking spaces, interlocking tiling work has further been taken up and the work is in progress. Cost of the work is Rs. 90.00 lakh.
7. Air-conditioning of Central Library: Air conditioning work of the Central Library is nearly complete.
8. Single Point Entry Work in Academic Area: Work has been completed
9. Class Room Furniture in New Lecture Halls: Work has been awarded after completing the tendering process.
10. Modernization of Class Rooms and Committee Rooms: To modernize the class rooms and committee rooms in academic departments and at central facilities, installation of Interactive Boards (Digital boards), DLP and LCD projectors is in progress.
11. Renovation of class room furniture is planned and will be started soon.
12. Creation of Additional Facilities in the Hostels: To accommodate the additional students, to be admitted on account of OBC reservation, capacities of hostels have been increased.

## **9.8 GAMES AND SPORTS FACILITIES**

The Institute Physical Education and Sports department have created and developed a positive and a healthy sports culture. Students, staffs and their family members are enjoying one of the best facilities of the Institute. Regular Sports and Games activities are being organized under the direction of the Sports Officer, Assistant Sports Officer, other staffs and various sports captains. The mission of the department 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 Fitness. The department is managing more than 3000 students and 500 staffs' members. The existing games and Sports facilities are:

### **INDOOR FACILITIES**

Modern Gymnasium, Badminton court, Billiard room, Table Tennis, Chess, Weight Training and Power lifting.

### **OUTDOOR FACILITIES**

Tennis Courts (Flood Light), Volleyball Courts(Flood Light), basketball Courts(Flood Light), Cricket Nets, Cricket Field, Football Field and Athletic Track and Field.

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

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

<b>Hostel No.</b>	<b>Single Seated Rooms</b>	<b>Double Seated Rooms</b>	<b>Triple Seated Rooms</b>	<b>Total Capacity</b>
1	72	-	36	180
2	72	-	36	180
3	72	-	36	180
4	72	36	-	144
5	182	-	-	182
6	72	-	36	180
7	-	-	75	225
8	225	-	-	225
Girls Hostel	48	68	14	226
P.G. Hostel	16	-	-	16
<b>GRAND TOTAL</b>	<b>831</b>	<b>104</b>	<b>233</b>	<b>1738</b>

**Note:** In Hostels 1 & 2, four students have been adjusted in triple seated rooms.

### **Administrative set up for Hostels**

<b>S. No.</b>	<b>Admn. Warden</b>	<b>Mess Warden</b>	<b>Mess Assistants</b>	<b>Caretakers</b>	<b>Gardner</b>	<b>peon</b>
1	8	7	7	5	4	1

### **Hostel/ Mess Management**

A Mess block is attached to each hostel except P.G. hostel. Each mess is managed by the Students Mess Committee consisting of Mess Secretary and Mess Members and assisted by mess servants. Entire salary of the mess servants is borne by the students themselves.

There is one Common Room for each hostel, having the facility of a colour television, Hindi and English News Papers and one Table Tennis table. The administration has provided Aquaguards (Water Filter) in each hostel and mess and extra Sintex tank in each mess and hostel.

### Staff Quarters

The details of Staff quarters is as follows

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

## **10.0 NOTABLE ACHIEVEMENTS**

### **10.1 NOTABLE ACHIVEMENTS**

The Institute, now a deemed university, began as a Regional Engineering College affiliated to the University of Rajasthan. After being granted Autonomy in 2002, the Semester system was introduced, which was followed by the Credit System of evaluation. The Institute has been declared as the Institute of National Importance by an Act of Parliament on 15<sup>th</sup> August 2007. The Institute has an excellent placement record and salaries commensurate with the high standards of the Institute.

The students of the Institute have excelled academically in examinations such as the Combined Engineering Services Exam and other similar competitive exams. Our students have regularly participated in various cultural and sports event both within and outside the Institute and have brought laurels to the Institute by winning various prizes.

### **10.2 ACHIEVEMENTS DURING THE YEAR**

The institute achieved a 100% placement despite the challenges of an extremely serious global recession with the highest ever number of companies (98) visiting the campus for recruitment. The Physical Education & Sports Department groomed the students for an outstanding performance in all the tournaments with general championship in BOSM, Inter NIT meet and the MST 09.

#### **ACHEIVEMENTS:**

MNIT Games and Sports has achieved a mile stone by winning with records for the period from 1<sup>st</sup> April 2009 to 31<sup>st</sup> March 2010 and the details are as follows:

- f) MNIT became the overall Champion in the All India Sports Tournament BOSM'09 (BITS Pilani, Rajasthan). Dr. Virender Singh, Assistant Sports Officer was the Coach-cum-manager of the contingent.
- g) MNIT became the overall Champion in the All India Inter NIT Sports Tournament, (Suratkal, Karnataka). Dr. Virender Singh, Assistant Sports Officer was the Coach-cum-manager of the contingent.
- h) MNIT became the Champion in the All India Inter NIT Cricket Tournament, (NIT Durgapur, West Bengal). Dr. N.C.Upadhya was the Coach-cum-manager of the contingent.
- i) MNIT Basketball and Chess team participated in the All India Inter NIT sports Tournament, (NIT Surat, Gujrat) and lost in the semifinals. Sh. Rajesh Saxena and Sh. Rajeev Goswami were the Coach-cum-manager of the contingent.
- j) MNIT cricket team became Runner's up in the Arya Cup Cricket Tournament 2009, organized by Arya College of Engineering, Jaipur.

**Organization (All India Level):**

MNIT organized MST-09 All India Invitational Sports Tournaments and became the champion with the following: Volleyball(M) - Winners, Tennis(M) - Winners, Tennis(W) - Winners, Badminton (M) - Winners, Badminton (W) - Runners up, Football(M) - Runners up& in Basketball (M) - Runners up

**Organization (Institutional Level):**

Physical Education and sports has organized Athletic meet of 35 different events for students and staffs, organized Inter-Branch Games and Sports tournaments and also organized Challenged Sports Tournaments as Mixed Badminton, Mixed Doubles Table Tennis, 2+2 Basketball, Hongkong Cricket, 7- aside Football and 2+2 Volleyball.

## 11.0

## ANNEXURES

### 11.1 BOARD OF GOVERNORS

S. No.	CONSTITUENCY	NAME
1	Chairman	<b>Shri Mukul Kasliwal</b> Hon'ble Chairman MNIT Jaipur & Chairman, MW Corp "Niranjan 99", Marine Drive Mumbai – 400 002
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, 1 <sup>st</sup> Floor No. 36, 7 <sup>th</sup> 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 and Member BoG MNIT, Jaipur.
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 Member-Secretary	Director, MNIT, Jaipur.
15	<b>Mr. Sanjiv Anand</b>	Special Invitee Managing Director Cedar Management Consulting Private Limited 703 Nirman Kendra, off E. Moses Road, Mahalaxmi, Mumbai 400-011.
16	<b>Mr. B.S. Meena</b>	Special Invitee Secretary Heavy Industries 178, Udyog Bhawan New Delhi – 110 011.

## 11.2 FINANCE, BUILDING & WORKS AND OTHER COMMITTEES

### FINANCE COMMITTEE

S. No.	CONSTITUENCY	NAME
1	Chairman	<b>Shri Mukul Kasliwal</b> Hon'ble Chairman MNIT Jaipur & Chairman, MW Corp "Niranjan 99", Marine Drive Mumbai – 400 002



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

<b>Name</b>	<b>Designation and Address</b>
Prof. R. P. Dahiya	Director, MNIT Jaipur Chairman Senate
Dr. O. P. Chhangani	Director, University College of Engg. Rajasthan Technical University, Kota
Dr. Ashok Pangadiya	Principal, S. M. S. Medical College, Jaipur
Sh. Pratap Narayan	Director, Central Arid Zone Research Institute (CAZRI), Jodhpur
Dr. P. Ghosh	Executive Director, Birla Institute of Scientific Research, Birla Auditorium, Jaipur
Ms. Kunja Bala Goyal	Dean, Faculty of Humanities, Goyal Dental Hospital, 111, Vidyut Nagar C, Gandhi Path, Vaishali Nagar, Jaipur
Dr. Pratibha Jain	Ex-Principal, Maharani College, 6, Ganesh Colony, Bhairav Path, J. L. N. Marg, Jaipur
Dr. Chander Shekhar	Director, C. E. E. R. I., Pilani
Dr. B. Bandhopadhyay	Advisor & Head, Solar Energy Centre, 19 <sup>th</sup> Mile Stone, Gurgaon Faridabad Road, Village Gwal Pahari, Distt. Gurgaon (Hariyana)
Academic Secretary	MNIT Alumni Association, MNIT Jaipur
Prof. Gopal Agarwal	Dean Administration, Professor Mechanical Engg. Department, MNIT Jaipur

Prof. P. R. Soni	Dean, Academic Affairs and Professor, Metallurgical & Materials Engineering Department, MNIT Jaipur
Prof. R. A. Gupta	Dean, Faculty Affairs and Professor, Electrical Engineering Department, MNIT Jaipur
Prof. R. P. Yadav	Dean, Students Affairs, Head & Professor Electronics & Comm. Engg. Department, MNIT Jaipur
Prof. Ravindra Nagar	Dean, R & D and Professor, Structural Engg. Department, MNIT Jaipur
Prof. P. K. Saxena	Professor, Mechanical Engg. Department, MNIT Jaipur
Prof. A. B. Gupta	Professor, Civil Engineering Department, MNIT Jaipur
Prof. Alok Ranjan	Professor Training & Placement & Professor, Architecture Department, MNIT Jaipur
Prof. Gunwant Sharma	Professor, Civil Engg. Department, MNIT Jaipur
Prof. Rohit Goyal	Professor, Civil Engineering Department, MNIT Jaipur
Prof. S. C. Pathak	Professor, Mechanical Engineering Department, MNIT Jaipur
Prof. Alok Gupta	Professor, Chemical Engineering Department, MNIT Jaipur
Prof. Y. P. Mathur	Professor, Civil Engg. Department, MNIT Jaipur
Prof. Ashok Sharma	Professor, Metallurgical & Materials Engineering Department MNIT Jaipur
Prof. Rajeev Shringi	Head & Professor, Architecture Department, MNIT Jaipur
Prof. B. L. Swami	Head and Professor, Civil Engineering Department, MNIT Jaipur
Prof. K. D. Gupta	Head & Professor, Chemistry Department, MNIT Jaipur
Prof. S. K. Sharma	Professor, Physics Dept., MNIT Jaipur
Prof. R. K. Yadava	Head and 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. Mool Singh	Professor, Electrical Engg. Dept., MNIT Jaipur
Prof. Sudhir Kumar	Professor, Civil Engineering Dept., MNIT Jaipur
Prof. S. L. Soni	Head & 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, MNIT Jaipur
Prof. Dileep Kr. Jain	Professor, Mechanical Engg. Department, MNIT Jaipur
Prof. M. S. Gaur	Head & Professor, Computer Engg. Department, MNIT Jaipur
Prof. K. C. Jain	Professor, Mathematics Department, MNIT Jaipur
Prof. Rashmi Jain	Professor & Head, Mathematics Department, MNIT Jaipur
Prof. Kantesh Gupta	Professor, Mathematics Department, MNIT Jaipur
Prof. K. C. Swami	Head & Professor, Physics Department, MNIT Jaipur

Prof. C. M. Arora	Professor, Electrical Engineering Department, MNIT Jaipur
Prof. S. G. Modani	Professor, Electronics & Communication Engg. Department, MNIT Jaipur
Prof. S. K. Gupta	Professor, Mechanical Engineering Dept., MNIT Jaipur
Prof. K. R. Niazi	Professor, Electrical Engineering Dept., MNIT Jaipur
Prof. A. K. Vyas	Professor, Civil Engineering Dept., MNIT Jaipur
Prof. S. P. Chaurasia	Professor & Head, Chemical Engineering Department, MNIT Jaipur
Dr. Nupur Tandon	Head, Humanities Department, MNIT, Jaipur
Prof. Rakesh Jain	Professor, Mechanical Engineering Dept., MNIT Jaipur
Dr. Awadhesh Kumar Bhardwaj	Head, Department of Management Studies, MNIT Jaipur
Sh. V. K. Jain	Head, Electrical Engineering Department, MNIT Jaipur
Prof. Anurag Misra	Prof. & Head, Structural Engineering Department, MNIT Jaipur
Sh. P. S. Dhaka	Registrar & Member Secretary, MNIT Jaipur
Dr. Vineet Sahula	officer Incharge (PG) & Reader, Electronics & Communication Engg. Dept., MNIT Jaipur
Dr. G. S. Dangayach	officer Incharge (UG) & Reader Mechanical Engg. Dept., MNIT Jaipur

### 11.3 Research Projects and Consultation jobs

#### DEPARTMENT OF CIVIL ENGINEERING

##### Continuing Sponsored Research Projects

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)
1.	NCP on Monitoring & Characterization of Respirable Particles in Urban Environment (Outdoor/Indoor) and their Association with Human Health	A. B. Gupta	AICTE	20 Lac
2.	Vermicomposting of hostel kitchen waste	Meena Khwairakpam	Institute Fund (MNIT Jaipur)	15,000/-

##### Consultancy/Testing Projects

S. No.	Name of the Project	Team Members	Client	Outlay (in Lacs of Rs.)
1	Centralized versus decentralized STPs for Jaipur- a critical case study	A. B. Gupta	RPCB, Jaipur	1.0 lac
2	Preparation of status reports for STPs,	Dr. Sanjay Mathur	RPCB,	12.0 lac

	solid waste management facilities and common treatment facilities for biomedical waste in Rajasthan		Jaipur	
3.	Monitoring and Evaluation for Renovation/ Upgradation of Facilities under World Bank Assisted, Rajasthan Health System Development Project	Prof. A.K. Vyas Prof. A.B. Gupta Prof. Rohit Goyal , Prof. Gunwant Sharma & others	RHSDP, Rajasthan	9,00,000/-

## DEPARTMENT OF COMPUTER ENGINEERING

### Continuing Sponsored Research Projects

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Rs. In lacs)
1.	CogSys: Cognitive Analysis Tools for Digital Forensics	V.Laxmi, M.S.Gaur	Department of Science and Technology, New Delhi	10.67
2	UKIERI: Multiprocessor Electronic Design Automation	M.S.Gaur, V.Laxmi V.Singh (IISc.)	UKIERI, British Council	GBP33000
3	Information Security Education and Awareness	M.S.Gaur, D.Gopalani	Department of Information Technology, New Delhi	~35.00

### New Research Projects Started:

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)
1.	PROSIM: Applicability of Probabilistic Signature in Detection of Metamorphic Malware	M.S.Gaur, V.Laxmi	Department of Information Technology, New Delhi	15.00

## DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING

### Continuing Sponsored Research Projects

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)
1.	Design and Sim of Tunabale PCs	Dr. Vijay Janyani (G. Chaoudhary- Co-coordinator)	DRDO	15 Lacs

2.	SMDP-VLSI phase-2 (project granted to institute)	Dr. Vineet Sahula	Mnistry of Comm. & IT	13 Lacs per annum
----	--	-------------------	--------------------------	----------------------

## DEPARTMENT OF MECHANICAL ENGINEERING

### Continuing Sponsored Research Projects

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)
1	Investigation of heat transfer phenomenon in nucleate flow boiling at high heat flux	Dr.A.K.Rajvanshi	ISRO	8
2	Design and Development of Low Built Wider width Handloom Ideal for weaving 90'' wide fabric	Prof. S. L. Soni and Dr.Dilip Sharma	Ministry of Textiles	3.92
3	Design improvements for energy conservation in bearing industry	Dr. J. Mathur and Dr.Dilip Sharma	PCRA	21.4

### New Research Projects Started

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)
1.	Investigation of heat transfer characteristics of nanofluids in Subcooled flow boiling	Dr.A.K.Rajvanshi	Board of Research in Nuclear Sciences	17

## DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

### Continuing Sponsored Research Projects

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in lacs of Rs.)
1.	Synthesis and Charactization of Nano-Crystalline Ni-P Coating on Aluminium	Prof. Ashok Sharma Sh. R.K. Duchaniya Dr. M.K. Totlani	IEI	0.60

### New Research Projects Started

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)
1.	Effect of Strain Induced Melt Activation (SIMA) Process on Microstructure and Properties of A356 Al Alloy	<b>Prof. Ashok Sharma</b>	UGC Networking Resource Centre for Materials (NRCM) Programme	0.30 lakh

### DEPARTMENT OF STRUCTURAL ENGINEERING

#### New Research Projects Started

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)
1.	Dynamic test tet up for Shake table test setup	Dr. M.K. Shrimali	MHRD	13.00

#### Consultancy/Testing Projects

S. No.	Name of the Project	Team Members	Client	Outlay (in Lacs of Rs.)
Dr. M.K. Shrimali				
1	Structural assessment of data centre building at india government mint, noida	Dr. M.K. Shrimali, Dr. S.D. Bharti	Security printing and minting corporation of India limited	2.00
2	Structural assessment of data centre building at india government mint, hyderabad	Dr. M.K. Shrimali, Dr. S.D. Bharti	Security printing and minting corporation of India limited	2.00
3	Whetting of bridge the bridge at site #1 at gokal wala village on banjarewala to forozpur marg in uttaranchal	Dr. M.K. Shrimali, Dr. S.D. Bharti	Sthapati architechts, interiordesigners, project managers 15, Abul Fazal road, Bengali Market, New Delhi-01	1.00
4	Whetting of bridge the bridge at site #2 at kheri village on banjarewala to forozpur marg in uttaranchal	Dr. M.K. Shrimali, Dr. S.D. Bharti	Sthapati Architechts, Interior Designers, project managers 15, Abul Fazal road, Bengali Market, New Delhi-01	1.00
5	Proof checking of structural drawing and designs of rcc	Dr. M.K. Shrimali, Dr.	Offshore Infrastructures ltd.	0.50

	sump and pump house at mohangarh, jaisalmer	S.D. Bharti	22, Udyog Kshetra, Mulund Link road, Mumbai	
6	Proof checking of water supply project at jodhpur	Dr. M.K. Shrimali, Dr. S.D. Bharti	Stup consultant Janakpuri, New Delhi	0.50
7	Proof checking of rcc sr at rglc keru beru jolilyali ph.-ii package #2	Dr. M.K. Shrimali, Dr. S.D. Bharti	Tapi prestressed products ltd. New power house road, Jodhpur	0.12
8	Concrete mix design m25 and m20 grades	Dr. M.K. Shrimali, Dr. S.D. Bharti	N.m. roof designers ltd, Jaipur	0.35
9	Proof checking of structural design of rob at lachhiwala in km 175 on nh-72 in state of uttarakhand	Dr. M.K. Shrimali, Dr. S.D. Bharti	Theme engineering services pvt. Ltd. 203, Dadu Marg, Barkat Nagar, Tonk Phatak Jaipur	0.83
10	Structural feasibility of existing canteen building and structural design/drawing of proposed building in rajasthan secretariat, jaipur	Dr. M.K. Shrimali, Dr. S.D. Bharti	PWD, Secretariat Division Jaipur	1.1
Dr. S.D. Bharti				
1	Concrete mix design m25 for construction of academy building of art & culture department at jhalana doongri, jaipur	Dr. S.D. Bharti, Dr. M.K. Shrimali	PWD, construction sub Division iv, Jaipur	0.25
2	Concrete mix design m7.5, m25 & m30 for construction of residential apartment at tilak marg, s-scheme, jaipur project	Dr. S.D. Bharti, Dr. M.K. Shrimali	G.n. buldev pvt. Ltd. 127, keshav vihar, Gopalpura Bypass, Jaipur	0.40
3	Rehabilitation of rcc ohsr at villages ranoli and datanramgarh in tatanramgarh tehsil	Dr. S.D. Bharti, Dr. M.K. Shrimali	Phed, Division Sikar	0.45
4	Rehabilitation of rcc ohsr at village bay in datanramgarh tehsil	Dr. S.D. Bharti, Dr. M.K. Shrimali	Phed, Division Sikar	0.23
5	Rehabilitation of rcc ohsr at village shishu and rohal sabsar	Dr. S.D. Bharti, Dr. M.K. Shrimali	Phed, Division Sikar	0.45
6	Concrete mix design m30	Dr. S.D.	Goyal sawitri	0.28

		Bharti, Dr. M.K. Shrimali	industries F-100, Pansheel Marg, Jaipur	
Dr. Ravindra Nagar				
1	Consultancy work of indoor polo arena at shooting range, jagatpura, jaipur	Dr. Ravindra Nagar, Dr. Anurag Misra, Dr. R.C. Gupta	Jaipur Development Authority Project-2, Jaipur	4.41
2	Third party inspection of MIG-A flats in sector 28, Pratap Nagar, Sanganer, Jaipur	Dr. Ravindra Nagar, Dr. Anurag Misra, Dr. R.C. Gupta	Rajasthan housing board Division-iv, 34/43, Pratap Nagar, Jaipur	1.10
3	Proof checking of design and drawing of foot over bridge at kota railway station	Dr. Ravindra Nagar, Dr. Anurag Misra, Dr. R.C. Gupta	R.k. & company B-38, Vallabh Nagar, Kota	0.83
Dr. R.C. Gupta				
1	Concrete mix design m30 grade	Dr. R.C. Gupta, Dr. Anurag Misra, Dr. Vinay Agrawal	The Exe. En., PWD, Dn. Kumher C/o M/s. R.K. Construction Co.	0.23
2	CONCRETE MIX DESIGN FOR FLEXTURAL SATRENGTH OF 40kg/sqcm.	Dr. R.C. Gupta, Dr. Anurag Misra, Dr. Vinay Agrawal	The J.E. (Civil), Offg. AGE B/R (P) AF C/o Rishabh Constructions Pvt. Ltd., Jaipur	0.40
3	Technical advice & performing ndt of re panels at rob in kota	Dr. R.C. Gupta, Dr. Anurag Misra, Dr. Ravindra Nagar	Rsrdc ltd., 12-a, shanti vihar colony, rata nada, jodhpur	0.82
4	Non-destructive testing of re wall pre-cast panels	Dr. R.C. Gupta, Dr. Anurag Misra, Dr. Ravindra Nagar	Arisha engineers consultant & developers pvt. Ltd.	0.55
5	Onsultancy for inspection and recommendations for old rcc ohsr at kotputli.	Dr. R.C. Gupta, Dr. Anurag Misra, Dr. Ravindra Nagar	The Exe. Engineer, Phed, div. Kotputli, dist. Jaipur	0.12
6	Consultancy for feasibility and stability of old recc ohsr at khedli	Dr. R.C. Gupta, Dr. Anurag Misra, Dr. Ravindra Nagar	The Exe. Engineer, Phed, div. Rajgarh, dist. Alwar	0.23

7	Rehabilitation of rcc sr 900 kl at brahmpuri, khandela	Dr. R.C. Gupta, Dr. Anurag Misra, Dr. Ravindra Nagar	Phed, Sikar	0.17
8	Checking of stability of foundation of the signage boards	Dr. R.C. Gupta, Dr. Anurag Misra, Dr. Ravindra Nagar	JDA, jaipur	0.17
Sh. Rajesh Gupta				
1	Concrete mix design m25 grade	Sh. Rajesh Gupta, Dr. Vinay Agrawal, Dr. S.K. Tiwari	The R.E., Dn. V, RHB, Jaipur C/o M/s. Jagdish Narayan Patel	0.23
2	CONCRETE MIX DESIGN M20, M25 & M30 GRADES AND PROOF CHECKING OF DRAWING AND DESIGN OF 100kl CAPACITY INTZE TYPE OHT	Sh. Rajesh Gupta, Dr. Vinay Agrawal, Dr. S.K. Tiwari	Arvind accel ltd., Ahemdabad	0.61
3	Concrete mix design m30 & m40 grades	Sh. Rajesh Gupta, Dr. Vinay Agrawal, Dr. S.K. Tiwari	Rajasthan state road development & const. Corp. Ltd., Ajmer	0.25
4	Consultancy for inspection and recommendations for old rcc ohsr at kotputli	Sh. Rajesh Gupta, Dr. Vinay Agrawal, Dr. S.K. Tiwari	Public Health Engineering Department, Div. Kotputli	0.12
Dr. Sandeep Chaudhary				
1	Concrete mix design m40 grade	Dr. Sandeep Chaudhary, Sh. Rajesh Gupta, Dr. Vinay Agrawal	H.g. infra engineering pvt. Ltd.	0.25
2	Proof checking of drawings & designs of extension of roller bearing and wheel shop at jodhpur workshop.	Dr. Sandeep Chaudhary, Sh. Rajesh Gupta, Dr. Vinay Agrawal	Orth western railway, Jodhpur	0.40
3	Concrete mix design m30 grade	Dr. Sandeep Chaudhary, Sh. Rajesh Gupta,	Asstt. Divisional engineer, wcr, Bharatpur	0.23

		Dr. Vinay Agrawal		
4	Structural stability of existing sr at sri mahavirji tehsil, hindaun	Dr. Sandeep Chaudhary, Sh. Rajesh Gupta, Dr. Vinay Agrawal	The Executive Engineer, Phed, Hindaun	0.17
5	Concrete mix design m30, m35 and m45 grades for rob near sirsa railway station, bhatinda	Dr. Sandeep Chaudhary, Sh. Rajesh Gupta, Dr. Vinay Agrawal	Shree gautam construction company ltd., Jaipur	0.44
6	Concrete mix design m30, m35 and m40 grades for rob at baran	Dr. Sandeep Chaudhary, Sh. Rajesh Gupta, Dr. Vinay Agrawal	Shree gautam construction company ltd., Jaipur	0.44
7	Concrete mix design m30, m35 and m40 grades for hlb at chittorgarh	Dr. Sandeep Chaudhary, Sh. Rajesh Gupta, Dr. S.K. Tiwari	Shree gautam construction company ltd., Jaipur	0.44
8	Consultancy for remaining part of crossing structure for sewer line at kartarpura ganda nalla near gujar ki thadi	Dr. Sandeep Chaudhary, Sh. Rajesh Gupta, Dr. S.K. Tiwari	Zonal engineer (phei), JDA, Jaipur	1.10
Dr. Vinay Agrawal				
1	Concrete mix design m10, m15, m20, m25 and m30 grades	Dr. Vinay Agrawal, Sh. Rajesh Gupta, Dr. S.K. Tiwari	North Western Railway	0.40
2	Concrete mix design m25 and m35 grades for construction of rcc sr 145 kl at tehsil Bassi, Jaipur	Dr. Vinay Agrawal, Sh. Rajesh Gupta, Dr. S.K. Tiwari	M/s. Ashok Kumar Sharma, Jaipur	0.28
3	Mix design m-25 for jklu	Dr. Vinay Agrawal, Sh. Rajesh Gupta, Dr. S.K. Tiwari	Ahluwalia construction group, Delhi	0.23
4	Proof checking of structural drawings for dg map	Dr. Vinay Agrawal, Sh. Rajesh Gupta, Dr. S.K. Tiwari	Enarch consultants-axis (jv), Jaipur	0.75
5	Proof checking of high level bridge at khari	Dr. Vinay Agrawal, Sh. Rajesh Gupta, Dr. R.C. Gupta	The Asstt. En., PWDdn.-ii, Kekri	1.10

Dr. S.K. Tiwari				
1	Concrete mix design m20 & m25 grades	Dr. S.K. Tiwari, Sh. Rajesh Gupta, Dr. Vinay Agrawal	M/s. Kamal Kunj Developers Pvt. Ltd.	0.28
2	Proof checking of drawing & design of RCC CWR 100kl and sr 225 kl at Kota	Dr. S.K. Tiwari, Sh. Rajesh Gupta, Dr. Vinay Agrawal	Shri ram construction group, Kota	0.13
3	Concrete mix design m25 grade	Dr. S.K. Tiwari, Sh. Rajesh Gupta, Dr. Sandeep Chaudhary	Gckc projects and works pvt. Ltd., Jaipur	0.23
4	Proof checking of design of 3 storeyed lig flats at sec. 28 Pratap Nagar	Dr. S.K. Tiwari, Sh. Rajesh Gupta, Dr. Vinay Agrawal	Rajasthan Housing Board, Jaipur	0.44

## CENTRAL COMPUTER CENTER

### New Research Projects Started:

S. No.	Name of the Project	Principal Investigator/ Coordinator	Sponsoring Agency	Outlay (in Lacs of Rs.)
1.	Development of a highly efficient procedure and graphical user interface equipped software for the service load analysis of Composite Structures and critical review of Codal provisions	Dr. Sandeep Chaudhary <b>Dr. A.K. Solanki</b>	DST, MHRD	12.00 Lacs

## 11.4 FACULTY POSITIONS

### Teaching Staff

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2010)
1	Director	1	1
2	Professor	34	44
3	Associate Professor	67	69
4	Assistant Professor	134	43

## 11.5 ADMINISTRATIVE AND OTHER STAFF

### (a) Administrative Staff & other

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2010)
1	Director	1	1
2	Registrar	1	1
3	Dy. Registrar (Adm.)	2	-
4	Dy. Registrar (Accounts)	1	1 (on deputation)
5	PS to Director	1	-
6	Estate Engineer	1	1
7	Medical Officer	1	-
8	Asstt. Registrar	6	-
9	Stores Officer	1	1
10	Section Officer	2	1
11	Internal Auditor (AAO)	2	2 (1 on Adhoc)
12	Asstt. Stores Officer	1	-
13	Sr. P.A.	1	-
14	Asstt. Controller of Exam.	1	-
15	Asstt. Sports Officer	1	-

### (b) Academic Staff

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2010)
16	System Analyst	1	1
17	Librarian	1	1
18	Foreman (Workshop)	1	-
19	Instrumentation Engineer	1	-
20	Sports Officer	1	1
21	Programmer (Computer)	2	1
22	Asstt. Librarian	2	1
23	Asstt. Foreman	2	1

### (c) Ministerial Staff

S.No.	Post	Sanctioned Strength	In position (On 31.3.2010)
24	PA	1	1
25	Accountant	3	2
26	Office Asstt.	4	1
27	Stenographer	6	1
28	Jr. Accountant	6	-
29	UDC	23	8
30	LDC	28	19
31	Caretaker (Hostel)	5	4

32	Storekeeper (Hostel)	2	2
33	Lab. Asstt.	4	1
34	Steno-typist	1	1
35	Legal Asstt.	1	-
36	Storekeeper (Central Stores)	1	-

**(d) Technical & Other Staff**

S.No.	Designation	Sanctioned Strength	In position (On 31.3.2009)
37	Tech. Asstt.	27	13
38	Jr. Estate Engineer/ Jr. Engineer	2+1	3 (Contract)
39	Mess Supervisor	1	-
40	Sr. Technician	30	5
41	Photo Lab Asstt.	1	1
42	Mess Asstt.	6	6
43	Cataloguer cum Classifier	2	-
44	Lib. Tech. Asstt.	1	-
45	Compounder Gr.II	2	1
46	Technician	23	15
47	Electrician Gr.I	1	1
48	Fitter Gr.I	1	-
49	Mistry (Civil) Gr.II	1	-
50	Data Entry Operator	2	2
51	Driver	3	1
52	Issue Asstt.	1	2 (1 against Cat-cum-Classifier)
53	Asstt. PTI	1	-
54	Computer Operator	1	-

**(e) Other Technical Subordinate & Class IV Staff**

S.No.	Post	Sanctioned Strength	In position (On 31.3.2009)
55	Carpenter	2	2
56	Electrician Gr.II	7	3
57	Fitter Gr.II	1	-
58	Mason	3	-
59	Painter cum Glass Cutter	3	2
60	Plumber Gr. II	3	2
61	Pump Operator Gr. II	8	8
62	Cook cum Chowkidar	1	-
63	Ferroman	1	-
64	Machineman	1	-
65	Lab. Attdt. / Sr. Cleaner	26	11
66	Book Lifter / Library Attdt.	7	4
67	Jamadar	1	-
68	Helper Gr. II	17	11
69	Peons	47	26

70	Games Boy	1	-
71	Gardener / Beldar	27	26
72	Janitor	3	2
73	Jr. Cleaner	2	-
74	Sweeper	12	11
75	Ward Boy	1	-
76	Gym. Attdt.	1	-

**(f) Part Time Posts**

S.No.	Post	Sanctioned Strength	In position (On 31.3.2009)
77	Legal Advisor	1	-
78	Allopathic Doctor	2	2
79	Lady Doctor	1	1
80	Homeopath Doctor	1	1
81	Aurvedic Doctor	1	1

## 11.6 Staff Members sponsored for Training and Learning

### DEPARTMENT OF ARCHITECTURE

#### Faculty sponsored for Higher Qualification

S No.	Name of the Faculty	Name of the course	Place	Period
1	Satish Piparalia	Ph. D under QIP	IIT Roorkee	3 yrs from july 2007
2	Rina Surana	Ph. D under QIP	SPA Delhi	3 yrs from july 2008

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

S No.	Name of the Faculty	Title of Event	Place	Date(s)
1.	Alok Ranjan	YAF, AIIA (Rajasthan Chapter)	Jawahar Kala Kendra, Jaipur	3 days 5 <sup>th</sup> & 7 <sup>th</sup> Feb'2010
2.	Rajeev Shringi	YAF, AIIA (Rajasthan Chapter)	Jawahar Kala Kendra, Jaipur	3 days 5 <sup>th</sup> & 7 <sup>th</sup> Feb'2010
3.	Tarush Chandra	Workshop on Research Methodology	CEPT University, Ahmedabad	27- 29 <sup>th</sup> January 2010
4.	Meenu Varshney	Global stone technology forum: an International Stone Conference organized by CDOS, RIICO, FICCI	SMS Convention Centre, Jaipur	2 days 17 <sup>th</sup> & 18 <sup>th</sup> Dec'2009
5.	Meenu	Safety in Design, at YAF, AIIA	Jawahar Kala	3 days

	Varshney	(Rajasthan Chapter)	Kendra, Jaipur	5 <sup>th</sup> & 7 <sup>th</sup> Feb'2010
--	----------	---------------------	----------------	---

### Participation of Faculty in Short Term Courses

S No.	Name of the Faculty	Name of the Course	Place	Date(s)
1.	Kalpana Pandit	Green architecture for carbon free living	IIT Kharagpur	1 week, 18 <sup>th</sup> Dec. to 23 <sup>rd</sup> Dec. 2009
2.	Meenu Varshney	Earthquake Resistant Planning, Design and construction (TOT program) sponsored by Ministry of Home Affairs, under NPCBAERM	SPA, Delhi	1 week (31 <sup>th</sup> Aug, 09-04 <sup>th</sup> Sep 09)

### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture
1.	Mr. P.K.Pande	Chief Town Planner Rajasthan	Legal aspects of masterplan preparation
2.	Mr. Subhash Sharma	Sr. Town Planner, Jaipur	Methodology of masterplan preparation
3.	Mr. Ravi Verma	Asst. town Planner, Bharatpur	Urban development in Bharatpur
4	Mr. N.K.Khare	SR. town Planner, Jaipur	Arch. conservation and master plan
5	Mr Mike Christinson	Faculty, NDSU, USA	Re interpretation of Vernacular Architecture
6	Ar. Dhruv Gupta	Interior Designer and IIID-Award Winner of Year	Contemporary Trends in Interior Designing in India

### Visit of Faculty Members to other Institutions

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit
1.	Mrs. Kalpana Pandit	IIT Kharagpur	To attend short term training program	18 <sup>th</sup> Dec. to 23 <sup>rd</sup> Dec. 2009
2.	Mr Tarush chandra	CEPT university, Ahmedabad	To attend a workshop	27- 29 <sup>th</sup> January 2010
3.	Mrs Meenu Varshney	SPA, Delhi	To attend short term training program	31 <sup>th</sup> Aug, 09-04 <sup>th</sup> Sep 09

### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose and Date(s)
1.	Dr Monsingh D Devadas		School of Planning and Architecture, Anna University, Chennai	COA Inspection, 21st and 22 <sup>nd</sup> April 2009
2.	Dr Vijay Kishore	Principal	School of Planning and Architecture, JNAFAU, Hyderabad	COA Inspection, 21 <sup>st</sup> and 22 <sup>nd</sup> April 2009
3.	Mike Christinson			

### Seminar/Conference/Workshop/Short term courses organized:

S No.	Name of the Faculty	Title of Event	Designation	Place	Date(s)
1	Kalpana Pandit	One week training programme for practicing Architects under NPCBAERM	Associate Professor	MNIT Jaipur	13 <sup>th</sup> to 18 <sup>th</sup> July 2009
2	Meenu Varshney		Asst. Professor		
3	Kalpana Pandit	One week training programme for practicing Architects under NPCBAERM	Associate Professor	MNIT Jaipur	22 <sup>nd</sup> to 27 <sup>th</sup> March 2010
4	Meenu Varshney		Asst. Professor		

## DEPARTMENT OF CHEMICAL ENGINEERING

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

S No.	Name of the Faculty	Title of Event	Place	Date(s)
1.	Dr. R. K. Vyas	Curriculum Development Workshop (BOS meeting) of B. Tech. (Chemical Engg.)	Banasthali University, Vanasthali, Rajasthan	January 30, 2010.
2.	Dr. R. K. Vyas	National Symposium on Emerging Trends and Opportunities in Basic and Applied Sciences	Poddar International College, Mansarovar, Jaipur	January 30, 2010.
3.	Mr. Sushant Upadhyaya	National Seminar on Role of value education in global	Shri Varshney College, Aligarh	November 22, 2009

		peace		
4.	Mr. Sushant Upadhyaya	National Seminar on “Challenges of Quality Improvement in Education ”	Amardeep (PG) College, Firozabad	January 9, 2010

#### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date
1.	Dr. Navraj S. Hanspal	Lecturer, UMIST, UK	CFD Modelling and Engineering Applications	August 20, 2009
2.	Dr. P. Kumar	Prof.& Head Oil &Paint Dept. HBTI,Kanpur	Expanding Horizons of Surface Coatings	July 20, 2009
3.	Dr. R.S.Verma	Professor USA	Green Chemisrty	December 8, 2009

#### 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. P. Chaurasia	Uttar Pradesh Technical Univ.Lucknow	To conduct the viva –voce examination of Ph.D.Thesis	December 19, 2009
2.	Prof. S. P. Chaurasia & Dr. Kailash Singh	Ujjain Engg. College, Ujjain	As an expert for curriculam and syllabus development of B.E.and M.E.(chem.Engg.)	September 12-13, 2009
3.	Dr. S. K. Jana	Andhra University, Visakhapatnam	Oral presentation of research paper in CHEMCON-2009	December 27-30, 2009
4.	Dr. R. K. Vyas	Banasthali University, Vanasthali	To attend meeting of BOS of Chemical Engg. and visited Chemical Engg. Dept. and IT Centre of Banasthali University	January 30, 2010
5.	Dr. R. K. Vyas	Poddar International College, Mansarovar, Jaipur	National Symposium on Emerging Trends and Opportunities in Basic and Applied Sciences	January 30, 2010.

#### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose and Date(s)
1.	Dr. Janusz Kozinski	Dean	Saskatchewan University	Formal research and academic collaboration between the College of

2.	Prof. Ajay Dalai	Prof. and Head, Chem. Engg.	Saskatchewan University	Engineering, University of Saskatchewan and MNIT Jaipur, January 20-21, 2010
3.	Dr. D.Y. Peng	Graduate Chair	Saskatchewan University	
4.	Dr. Don Smith	Professor	Saskatchewan University	
5.	Dr. Hui Wang	Associate Professor	Saskatchewan University	
6.	Dr. Stanley Scewchuk	Sr.Researcher, Saskatchewan Research Council	Saskatchewan University	
7.	Dr. Yongfeng Hu	Sr.Scientist, Canadian Light Source	Saskatchewan University	
8.	Dr. R.S.Verma	Professor	USA	

**Seminar/Conference/Workshop/Short term courses organized:**

S. No.	Name of the Faculty	Title of Event	Designation	Place	Date(s)
1.	Dr. R. K. Vyas	Hindi Week Inaugural Function & <i>Kavya Path</i>	Coordinator	MNIT Jaipur	September 14, 2009

**DEPARTMENT OF CHEMISTRY**

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

S No.	Name of the Faculty	Title of Event	Place	Date(s)
1	Dr. Jyoti Joshi	National Symposium on New Frontiers in Chemical Sciences (NFCS-10)	Department of Chemistry, University of Rajasthan , Jaipur	February 25, 2010
2	Dr. Jyoti Joshi	National Conference on “Green and Sustainable Chemistry”	BITS, Pilani, Rajasthan	19 <sup>th</sup> to 21 <sup>st</sup> Feb, 2010
3	Dr. Ragini Gupta	National Workshop on “Green Chemistry Opportunities and Challenges in New Global Era” NWGC-2009	Department of Chemistry, University of Rajasthan , Jaipur	7 <sup>th</sup> to 9 <sup>th</sup> Dec, 2009.
4	Dr. Ragini Gupta	National Conference on “Green and Sustainable Chemistry”	BITS, Pilani, Rajasthan	19 <sup>th</sup> to 21 <sup>st</sup> Feb, 2010

5	Dr. Mukesh Jain	National Symposium on New Frontiers in Chemical Sciences (NFCS-10)	Department of Chemistry, University of Rajasthan , Jaipur	February 25, 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. Jyoti Joshi	Modern Institute of Technology & Research Centre, Alwar (Rajasthan)	As Chairperson of paper presentation session & keynote speaker on non-conventional energy sources.	30 & 31th March, 2010

#### DEPARTMENT OF CIVIL ENGINEERING

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

S No.	Name of the Faculty	Title of Event	Place	Date(s)
1	Dr. A. B. Gupta	International symposium on Environmental Pollution, Ecology and Human Health ISEPEHH 2009,	Tirupathi	July 25-27, 2009
2	Dr. A. B. Gupta	International Workshop on "Advances in Combustion and Transportation"	IIT Kanpur	Jan 10-12, 2010
3	Dr. A. B. Gupta	International Conference on Environmental Health and Technology, ,	IIT Kanpur	March 15-17, 2010
4	Dr. A. B. Gupta	National Conference on "Energy & Environment Conservation: Challenges and opportunities & Solutions"	JEC Kukas, Jaipur	December 5-6, 2009
5	Dr. A. B. Gupta	All India seminar of environmental engineers on "Noise Pollution"	VIT, Jaipur,	March 6-7, 2010
6	Dr. A. B. Gupta	one day workshop on "Environmental flow in rivers"	NEERI Nagpur	June 5, 2009.
7	Dr. A. B. Gupta	one day workshop on "Revision of guidance manual on drinking water quality monitoring and assessment"	NEERI Nagpur	June 19, 2009
8.	Prof. Rohit Goyal	National Workshop on "Dugwell Recharge: Efficiency and Efficacy" organized by Central Ground Water Board, Jaipur at University of Rajasthan	Jaipur	March 18 <sup>th</sup> , 2010

9.	Prof. Rohit Goyal & Sh. Sumit Khandelwal	International Conference Map India 2010	Gurgaon, India	Jan. 19-21, 2010
10.	Prof. Rohit Goyal	Workshop on “Preparation of State Environmental Policy for Rajasthan”, organized by TERI with Rajasthan State Pollution Control Board.	Hotel Fortune Bella Casa, Jaipur.	15 <sup>th</sup> Sept. 2009
11.	Meena Khwairakpam	One day workshop on Life Cycle Assessment (LCA)	Department of Civil Engineering, IITD	25 <sup>th</sup> April 2009

### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date
1	Dr. Sookoo Lee. Dr. Lee	Professor in Seoul National University of Technology	Sludge Treatment (sludge derived fuels)	18 <sup>th</sup> Feb' 10
2	Dr. Rajesh Seth	Department of Civil & Environmental Engineering, University of Windsor, Ontario, CANADA	Freshwater Resource Management & Issues In Canada	13 <sup>th</sup> Jan 2010
3	Dr M, S. Babel	Professor , AIT Bangkok	Urban water management	12 <sup>th</sup> April 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. Rohit Goyal	North Dakota State University (NDSU), Fargo, ND, USA	To evolve further research collaboration, development of courses, laboratory strengthening and curriculum development	23 <sup>rd</sup> to 27 <sup>th</sup> March 2009

### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose and Date(s)
1	Prof. Gary R. Smith	Dean, College of Engineering and Architecture	North Dakota State University (NDSU), Fargo, USA	Research Collaborations, 11 <sup>th</sup> to 15 <sup>th</sup> November 2009.
2	Dr. Sookoo Lee. Dr. Lee	Professor	Seoul National University of Technology	Special talk on 18 <sup>th</sup> Feb' 10
3	Dr. Rajesh Seth	Associate Professor, Department of Civil & Environmental Engineering,	University of Windsor, Ontario, CANADA	Special talk on 13 <sup>th</sup> Jan 2010

4	Abhay Mehta	Research scientist at HP Labs	USA	26 <sup>th</sup> March 2010
5.	Dr Sandhya Babel,	Associate Professor ,	SIIT Bangkok	Interactive session on 12 <sup>th</sup> April 2010
6.	Dr M, S. Babel	Professor , AIIT Bangkok	Urban water management	12 <sup>th</sup> April 2010

**Seminar/Conference/Workshop/Short term courses organized:**

S. No.	Name of the Faculty	Title of Event	Designation	Place	Date(s)
1	Dr A. B. Gupta	All India seminar on Air Pollution Control	Member, Technical committee	IE(I), Jaipur	May 2-3, 2009
2	Dr A. B. Gupta	All India seminar on Project management practices	Member, Technical committee	IE(I), Jaipur	April 25-26, 2009
3	Dr A. B. Gupta	International Conference on “Advances in Mechanical and Building Sciences in the 3rd Millennium (ICAMB – 2009)”	Member, National Advisory Board	VIT University Vellore	December 14 – 16, 2009

**DEPARTMENT OF COMPUTER ENGINEERING**

**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, Roorki	Image Processing	May 8, 2010
3.	Dr.Ujjwal Moulik	Jadavpur University	Genetic Algorithms in Pattern Classification	January 15, 2010
4	Dr.Mark Zwolinski	University of Southampton, UK	Variability in EDA	
5	Shantanu Choudhary	FOSSEE, IIT, Bombay	Python and Open Source Computing	February 3, 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.M.S.Gaur	University of Southampton, UK	UKIERI Research Interaction	June, 2010
2.	Dr.V.Laxmi	University of Southampton, UK	UKIERI Research Interaction	June, 2010
3.	Dr.V.Laxmi	CDAC Hyderabad	Information Security	August,

			Interaction	2010
4.	Dr.V.Laxmi	CARE, IIT, Delhi	Speech Recognition	March, 2010

### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose and 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, Roorkee	Image Processing May 8, 2010
3.	Dr.Ujjwal Moulik	Professor	Jadavpur University	Genetic Algorithms in Pattern Classification January 15, 2010
4	Dr.Mark Zwolinski	Professor	University of Southampton, UK	Variability in EDA

## DEPARTMENT OF ELECTRICAL ENGINEERING

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

S No.	Name of the Faculty	Title of Event	Place	Date(s)
1.	Rohit Bhakar	25 <sup>th</sup> National Convention of Electrical Engineers and National Seminar on Indian Electrical Equipment and Components Manufacturing Industry Destination – 2012	Jaipur	14-15, Nov. 2009

### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date
1.	Dr. R.C Bansal	Deputy Reader,Queens land University,Australia	Research Methodologies	3/12/2009

### 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	IIT Bombay	Workshop	28-30 Sept. 2009
2.	Dr. S.D. Bharti	IIT Bombay	Workshop	28-30 August. 2009

### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose and Date(s)
1.	Dr. R.C Bansal	Deputy	Queens land	Interaction with Faculty

		Reader	University,Australia	members and delivering an Expert Lecture. 2-3/12/2009
--	--	--------	----------------------	---

## DEPARTMENT OF HUMANITIES

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

S No.	Name of the Faculty	Title of Event	Place	Date(s)
1.	Dr.Nupur Tandon	First International Conference ,ELT@I Jaipur	MGDGirls' School,Jaipur	20-21 Nov.2009
2.	Dr.Nupur Tandon	International Seminar on 'Telling Lives..'	University of Rajasthan,Jaipur	24-26 Feb,2009
3.	Dr Preeti Bhatt	International Seminar on "Exploring Cultural Relocations and Hybrid Identities"	University of Rajasthan, Jaipur	15-16 August 2009
4.	Dr Preeti Bhatt	National Seminar on "Urban Spaces, Human Ecology and Challenges of Modernity"	University of Rajasthan, Jaipur	10-12 Sept. 2009
5.	Dr Preeti Bhatt	International Conference on "Speak Volumes: Promoting Communication in the English Language Class"	MGDGirls' School,Jaipur	20-21 Nov.2009
6	Dr Preeti Bhatt	National Seminar on "New Directions in Literary Studies"	International College for Girls, Jaipur	29-30 Jan. 2010.
7	Dr Preeti Bhatt	National Seminar on "New Directions in Literary Studies"	University of Rajasthan, Jaipur	24-26 Feb. 2010.
8	Dr Preeti Bhatt	National Seminar on "Representation of Muslim Culture in Indian Cinema"	University of Rajasthan, Jaipur	23-25 April 2010.

### Participation of Faculty in Short Term Courses

S No.	Name of the Faculty	Name of the Course	Place	Date(s)
1.	Dr.Nupur Tandon	Workshop on 'Women Empowerment'	MNIT Jaipur	23.12.09

### 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	International College for Girls(now IIS) Jaipur	Moderation of Exam.Papers	April,2009
2.	Dr.Nupur Tandon	International College for Girls(now IIS) Jaipur	Conducting Viva Voce Exam of B.A.IV Sem	12.5.09
3.	Dr.Nupur Tandon	Government Mahila Engg College, Ajmer	Expert on Selection Committee(English)	17-08-09
4.	Dr.Nupur Tandon	Arya Engg College,Kukas	Judge at Debate Competition	Sept.2009
5.	Dr. Preeti Bhatt	Arya Engineering College, Kukas, Jaipur	To judge the Debate Competition in Tech Fest Shradhanjali 2009	Sept. 2009
6.	Dr Preeti Bhatt	Birla Institute of Technology Extension Centre, Jaipur	To conduct the Viva-voce of BBA 3 <sup>rd</sup> Sem. students	5 <sup>th</sup> Dec. 2009
7.	Dr Preeti Bhatt	S.S.Jain Subodh Girls' College, Jaipur	To deliver a Lecture on "Effective Communication Skills: An Awareness of General Errors in English Communication"	12 <sup>th</sup> Dec. 2009
8.	Dr Preeti Bhatt	Jaipur Engineering College and Research Centre, Jaipur	To deliver a Lecture on "Essential Communication Skills"	13 <sup>th</sup> March 2010
9.	Dr Preeti Bhatt	Birla Institute of Technology Extension Centre, Jaipur	To conduct the Viva-voce of MBA 2 <sup>nd</sup> Sem. students	8 <sup>th</sup> May 2010
10.	Dr.Dipti Sharma	Vardhaman Mahaveer Open University Kota	Paper presentation in the 30 <sup>th</sup> Annual Conference of Rajasthan Economic Association.	9-11 <sup>th</sup> Jan., 2010.
11.	Dr.Dipti Sharma	Kautilya Institute of Technology & Engineering & School of Management, Jaipur	Paper Presentation.	5 <sup>th</sup> May, 2010

### Seminar/Conference/Workshop/Short term courses organized:

S No.	Name of the Faculty	Title of Event	Designation	Place	Date(s)
1	Dr.Nupur Tandon	"Interfacing Social Sciences with Engineering Technology and	Chief Coordinator	MNIT Jaipur	7-9 Dec.2009

		Education”			
2	Dr. Preeti Bhatt	“Interfacing Social Sciences with Engineering Technology and Education”	Coordinator of Study Material and Photocopying	MNIT Jaipur	7-9 Dec.2009
3	Dr.Dipti Sharma	“Interfacing Social Sciences with Engineering Technology and Education”	Convenor, Reception Committee	MNIT Jaipur	7-9 Dec.2009

## DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING

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

S No.	Name of the Faculty	Title of Event	Place	Date(s)
1	Dr. K.K. Sharma	<i>National Conference on Advances in Communication Technologies</i>	Jaipur	May 17, 2009
2	Dr. K.K. Sharma	<i>National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics 2010.</i>	Jaipur	Jan. 15 to Jan 17, 2010
3	Dr. K.K. Sharma	International conference on Microwave, Antenna, Propagation & Remote Sensing (ICMARS-2009),	Jodhpur,	Dec. 19, 2009 to Dec. 21, 2009.
4	Ghanshyam Singh	Training on Optical switching and applications attended with optics groups @ HW University, Edinburgh, United Kingdom	Edinburgh, Scotland, U.K.	March 16 <sup>th</sup> -25 <sup>th</sup> , 2009.
5	Ghanshyam Singh	IEEE MTTs and IETE Jaipur chapter workshop on “Recent trends in microwave Engineering”	Global Institute of Technology Jaipur	Oct. 22 <sup>nd</sup> , 2009.
6	Ghanshyam Singh	IETE Foundation Day celebration; Theme of the day: Blogging or Twitting: Bane or Boon	IETE Jaipur Centre, Jaipur	Nov. 2 <sup>nd</sup> , 2009.
7	Ghanshyam Singh	IEEE MTS and IETE Jaipur joint National symposium on Advances in microwave	JEC Jaipur.	Dec. 12 <sup>th</sup> , 2009.

		materials, devices & applications.		
8	Ghanshyam Singh	Nano-TEM lecture series on “Sample preparation techniques for electron microscopy studies”.	BioMater Centre @ University of Eastern Finland, Kuopio campus, Finland.	March 25 <sup>th</sup> , 2010.
9	Renu Kumawat	IEEE International Workshop on Reliability Aware System Design and Test	BAngalore	January 7-8, 2010
10.	Dr. Vineet Sahula	13 <sup>th</sup> IEEE VLSI Design and Test Symposium	Bangalore	July 2009
11.	Dr. Vineet Sahula	ZOPP workshop for Coordinators, SMDP-VLSI-II project	IIT Bombay, Mumbai	Feb. 2009
	Dr. Vineet Sahula	IEEE Region 10 Annual conference (TENCON-2010)	Singapore	23-26 Nov. 2009

#### Participation of Faculty in Short Term Courses

S No.	Name of the Faculty	Name of the Course	Place	Date(s)
1.	Ghanshyam Singh	A course on Metallic Nanoparticles and Nanostructures: optical properties and applications” lectured by Prof. Andrey I. Denisyuk, University of San Petersburg, Russia.	University of Eastern Finland, Joensuu campus, Finland	March 15 <sup>th</sup> -17 <sup>th</sup> , 2010
2.	Ghanshyam Singh	Summer school on Photonic Telecommunication Systems, 3op, by Profs. Franko Küppers, Aalto University School of Science and Technology, Department of Micro and Nanosciences and Dr. Seppo Honkanen, University of Arizona, College of Optical Sciences.	University of Eastern Finland, Joensuu campus, Finland	June 3-4 and June 7-8, 2010

#### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date
1.	Dr. C. P. Ravikumar	Driector, University Realtions, Texas Instruments, Bangalore	Embedded systems design	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.	Ghanshyam Singh	HW University, Edinburgh, Scotland, U.K	Delivered a talk on “Optical switches, various architectures and their applications” for optics research group members @ Physics department, HW University, Edinburgh, U.K	24 <sup>th</sup> March, 2009
2.	Ghanshyam Singh	Bosch Pvt. Ltd, Bangalore	Industrial visit with 25 students of Electronics and Comm., Electrical and Mechanical Streams	October 9-10, 2009
3.	Ghanshyam Singh	UEF, Joensuu, Finland	Delivered a talk to research group members and students @ UEF, Joensuu, Finland on “Photonic Switches: Architectures and Applications”.	May 20 <sup>th</sup> , 2010
4.	Dr. Vineet Sahula	Dept. of CSE, Banasthali University	External examiner for M. Tech. dissertations	May 2010
	Dr. Vineet Sahula	Dept. of CSE, Banasthali Vidyapeeth	Invited Lecturer on <i>Power estimation Techniques</i>	Feb. 2010
	Dr. Vineet Sahula	Thapar Institute of Engg. & Technology, Patiala	Invited lectures in IEP on System modeling using VHDL/SystemC/System-Verilog	21-23 Dec. 2009

### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose and Date(s)
1.	Dr. S. D. Joshi	Professor	IIT Delhi	B.Tech. project examiner
2.	Dr. C. P. Ravikumar	Director, University relations	TEXAS INSTRUMENTS	Ph.D. examination of Mr. U. Deshmukh
3.	Dr. M. Balakrishnan	Professor	IIT Delhi	M. Tech. theses examiner
	Dr. R. Sharan	Professor	LNM-IIT Jaipur	M. Tech. theses examiner

**Seminar/Conference/Workshop organized:**

<b>S No.</b>	<b>Name of the Faculty</b>	<b>Title of Event</b>	<b>Designation</b>	<b>Place</b>	<b>Date(s)</b>
1	Mr. M. M. Sharma	IETE National conference on Advances in Communication Technologies in Cyber Age,	Organizing Secretary	Jaipur	17 <sup>th</sup> May, 2009
	Mr. M. M. Sharma	, One day Seminar on Electromagnetic Analysis using FEKO, ,	Programme Coordinator	Jaipur.	August 25, 2009
	Mr. M. M. Sharma	National Workshop on Recent trends in Microwave Communication Systems,.	Organizing Secretary,		23 <sup>rd</sup> October, 2009
	Mr. M. M. Sharma	National Symposium on Advances in Microwave materials, Devices & Applications,	Organizing Secretary,		12 <sup>th</sup> December, 2009.
	Mr. M. M. Sharma	National Conference on Advances in Microwave Communication, Devices & Applications,.	Organizing Secretary,		16 <sup>th</sup> -17 <sup>th</sup> February 2010
	Dr. Vineet Sahula	22 <sup>nd</sup> IEEE International Conference on VLSI Design, New Delhi	Fellowship chair (organizing committee)	Delhi	5-9 Jan. 2009
	Dr. Vineet Sahula	IEP on System modeling using VHDL/SystemC/System-Verilog, Thapar Institute of Engg. & Technology, organized by CEERI, Pilani & Thapar Institute, Patiala alongwith MNIT Jaipur	Co-organizer	Thapar Institute, Patiala	14-23 Dec. 2009

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

<b>S No.</b>	<b>Name of the Faculty</b>	<b>Title of Event</b>	<b>Place</b>	<b>Date(s)</b>
1.	Prof. S.L. Soni	National Conference on Energy Management-2009	EngineeringCollege, Bikaner	20-21 November, 2009
2.	Prof. S.L. Soni Speaker	International Workshop on Adances in	Indian Institute of Technology Kanpur	10-12 January, 2010

		combustion and Transportation 2010		
3.	Dr.A.K.Rajvanshi	All India Seminar on Air Quality Management	The Institution of Engineers (India) Rajasthan State Centre, Jaipur	May 1-2, 2010
4.	Prof. S.L. Soni	All India Seminar on Air Quality Management	The Institution of Engineers (India) Rajasthan State Centre, Jaipur	May 1-2, 2010
5.	Prof. S.L. Soni	International conference on "Sustainable Energy in buildings 2010"	Brighton U.K.	5-7 May 2010

#### Participation of Faculty in Short Term Courses

S No.	Name of the Faculty	Name of the Course	Place	Date(s)
1.	Prof. S.L. Soni	Summer School on Tribology	IIPM Gurgaon	10-13 June,2009

#### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date
1.	Dr. Pradeep Bansal, FASHRAE	Professor of Mechanical Engineering  Associate Dean Postgraduate: Faculty of Engineering The University of Auckland Private Bag 92019, Auckland Mail Centre, Auckland 1142, New Zealand	An Overview of the Refrigeration Research at the University of Auckland	09-12-2009

#### Visit of Faculty Members to other Institutions

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit
1.	Dr. G. S. Dangayach	The Institution of Engineers (India), Kolkata	To attend Syllabi Revision Committee meeting	July 2009
2.	Dr. G. S. Dangayach	University of Greenwich, UK	Interaction with faculty & students	Feb. 2010

## DEPARTMENT OF MATHEMATICS

### Seminar/Conference/Workshop/Short term courses organized:

S No.	Name of the Faculty	Title of Event	Designation	Place	Date(s)
1.	Prof. K.C.Jain	21 <sup>st</sup> National Conference of Rajasthan Ganit Parishad	Convener	M.N.I.T. JAIPUR	20-21 Feb., 2010
2.	Dr. R.C.Soni	21 <sup>st</sup> National Conference of Rajasthan Ganit Parishad	Organising secretary	M.N.I.T. JAIPUR	20-21 Feb., 2010

## DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

### Participation of Faculty in Short Term Courses

S No.	Name of the Faculty	Name of the Course	Place	Date(s)
1.	Mr. Rajendra Kumar Duchaniya	Recent Developments and Future Trends of Nanotechnology in Modern Science	SVNIT Surat	Dec.21-25, 2009

### Visit of Faculty Members to other Institutions

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit
1.	Prof. P.R. Soni	NIT, Surat	To attend meeting of Deans (Academic) of NITs	Jan, 2009
2.	Prof. P.R. Soni	M.S. University, Baroda	To take Ph.D. Viva voce Examination	Feb., 2009
3.	Prof. Ashok Sharma	Govt. Engg. College, Jhalawar	Delivered a Lecture	April 14, 2009
4.	Prof. Ashok Sharma	NIT, Surathkal	MHRD Summer School	July 21-22 2009
6.	Prof. Ashok Sharma	Thapar University, Patiyala	Delivered a Lecture	September 1, 2009

## DEPARTMENT OF PHYSICS

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

S No.	Name of the Faculty	Title of Event	Place	Date(s)
1	Prof. S. K. Sharma	Workshop on Surface Modification of Amorphous Alloy by Low Energy Ion-beam Irradiation	IUAC, New Delhi	July 9-10, 2009
2	Prof. S. K. Sharma	Chaired a session and Delivered an invited talk on Electrochemical Behaviour of different Structural Studies of Ti <sub>60</sub> Ni <sub>40</sub> Alloy at 4 <sup>th</sup> Uttarakhand State Science & Technical Congress	G. B. Pant University of Agriculture & Technology, Pantnagar	November 10-12, 2009
3	Prof. S. K. Sharma	Attended and Delivered an invited lecture on Corrosion Behavior of Amorphous & Nanocrystalline Alloys at Indian Science Congress 97 <sup>th</sup> session	USSC & Kerala University, Trivandrum	January 2-7, 2010
4	Prof. S. K. Sharma	Delivered an invited talk on Surface Studies on Amorphous & Nanocrystalline Ti <sub>60</sub> Ni <sub>40</sub> at the Workshop on Nanomagnetism	LNMIIT, Jaipur	February 6, 2010
5	Dr. Kanupriya Sachdev	Workshop on Surface Modification of Amorphous Alloy by Low Energy Ion-beam Irradiation	IUAC, New Delhi	July 9-10, 2009
6	Dr. Kanupriya Sachdev	Workshop on Advanced Characterization Techniques	IIT Bombay	May 6, 2010
7	Dr. Kanupriya Sachdev	3 <sup>rd</sup> National Symposium for Materials Research Scholars, MR-10	IIT Bombay	May 7-8, 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	B.A.R.C. Mumbai	Research Discussion	June 28-29, 2010

## DEPARTMENT OF MANAGEMENT STUDIES

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

S No.	Name of the Faculty	Title of Event	Place	Date(s)
1.	A.Bhardwaj	National Conference on	Jaipur	07 <sup>th</sup> March

		Entrepreneurship		2010
--	--	------------------	--	------

### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date
2	Mr. B.K. Bhargava	RMOL	Formation of Industry	12/9/09
3	Dr. Deepak Khanna	Consultant	Sales and Distribution	12/09/09
4	Mr. V.D. Narang	SISI	Small Scale Industry	19/09/09
5	Mr. Ajay Gupta	Kamtech Associate	IT Management	24-11-09
6	Mr. Mahim Sagar	IIT Delhi	Brand Management	25/01/10
7	Ms. Ellen	Consultant	Entrepreneurship	29/01/10
8	Rameshwar Prakash	HR issues in business organizations	Opportunities in Agro sector	02/02/10
9	Mr. Emmett Brady	Biomimicry Guild in Montana, USA	Innovation and Knowledge Mgt.	04-05/02/10
10	Dr. R. Mittal	NIAM	Marketing Research	24/03/10
11	Dr. K.K. Rattu	Doordarshan	Media Management	29/03/10
12	Ms. Tanjul Saxena	Consultant	Communication Skills	31/03/10

### Visit of Faculty Members to other Institutions

S. No.	Name of Faculty	Institution / Organization Visited	Purpose of Visit	Date(s) of Visit
1.	A.Bhardwaj	EDI Ahmedabad	Meeting on Entrepreneurship	29/6/09
2	A.Bhardwaj	Goa Institute of Management, Panji	Meeting on Entrepreneurship (EDI)	12/12/09
3	A.Bhardwaj	University of Greenwich	Interactiom	29-31 July 2009
4	A.Bhardwaj	MAIET Jaipur	Expert Lecture	04/3/09
5	A.Bhardwaj	Engineering College, Ajmer	Expert Lecture	18/7/09

### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose and Date(s)
1.	Dr Margaret Noble	Professor	University of Greenwich	28/05/2009
2.	Dr Hanna Yakavenka	Professor	University of Greenwich	28/05/2009
3.	Dr Rajinder Bhatti	Professor	University of Greenwich	28/05/2009
4.	Dr Sati McKenzie	Professor	University of Greenwich	28/05/2009
5.	Dr Robert Beale	Professor	University of Greenwich	28/05/2009
6.	Dr. Lubna Nafees	Professor	IMT Gaziabad	28/05/2009
7.	Prof. Tim Gore	Director	University of Greenwich	28/05/2009

8.	Mr. Ajay Gupta	M.D.	Kamtech. Associate, Jaipur	24/11/2009
9.	Mrs. Tanjul saxena	Consultant	MDA, Jaipur	27/11/2009
10.	Mr. Mahim Sagar	Professor	IIT Delhi	25/01/10
11.	Ms. Ellen	Consultant		29/01/10
12.	Mr. Emmett Brady	Consultant	Biomimicry Guild in Montana, USA	03/02/09
13.	Dr. K.K. Rattu	Director	Doordarshan	29/03/10

**Seminar/Conference/Workshop/Short term courses organized:**

S No.	Name of the Faculty	Title of Event	Designation	Place	Date(s)
1	A.Bhardwaj	“Communication Skills”		DMS, MNIT, Jaipur	Feb.09
2	A.Bhardwaj	“How to solve a case study”		DMS, MNIT, Jaipur	March 09
3.	A.Bhardwaj G.S. Dangayach	Computer Awareness for oppressed children		DMS MNIT, Jaipur	25-29 Aug. 09
4.	A.Bhardwaj G.S. Dangayach	Developing teaching skills in Management Courses		DMS MNIT, Jaipur	14-25 July 09

**IIP CELL**

**Visitors to the Department**

S. No.	Name of the Visitor	Designation	Affiliation	Purpose and Date(s)
1.	Mr. Rameshwar Prakash	Director	Gems and Jewellery Association	02/02/2010
2.	Mr. Ajay Gupta	M.D.	Kamtech. Associates Jaipur	03/02/2010
3	Mr. V.D. Narang	Ex. Director,	SISI	21/02/2010
4.	Mr. R.K. Gupta		VKI Industrial association	22/03/2010

## EDC

### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose and Date(s)
1.	Team of 26 members visited from developing and developed nations	Govt. officials, Entrepreneurs, Academicians	15 Countries	Interaction, 09/10/09
2.	Team of 30 members visited from developing and developed nations	Govt. officials, Entrepreneurs, Academicians	16 Countries	Interaction, 04/11/09
3	Team of 27 members visited from developing and developed nations	Govt. officials, Entrepreneurs, Academicians	12 Countries	Interaction,06/01/10
4	Team of 26 members visited from developing and developed nations	Govt. officials, Entrepreneurs, Academicians	14 Countries	Interaction,12/01/10
5	Team of 30 members visited from developing and developed nations	Govt. officials, Entrepreneurs, Academicians	18 Countries	Interaction,10/03/10

### Seminar/Conference/Workshop/Short term courses organized:

- One Technology Based Entrepreneurship Development Programme was organized in Mar. 2010 on 'CNC Machining'.
- One Faculty Development Program on Computer Hardware Maintenance was organized at Arya College of Engg. & Tech. Jaipur in Nov. 09.

## CENTER OF ENERGY AND ENVIRONMENT

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

S No.	Name of the Faculty	Title of Event	Place	Date(s)
1	Prof. A. B. Gupta	International symposium on Environmental Pollution, Ecology and Human Health ISEPEHH 2009,	Tirupathi	July 25-27, 2009
2	Prof.. A. B. Gupta	International Workshop on "Advances in Combustion and Transportation"	IIT Kanpur	Jan 10-12, 2010
3	Prof.. A. B. Gupta	International Conference on Environmental Health and Technology, ,	IIT Kanpur	March 15-17, 2010
4	Prof.. A. B. Gupta	National Conference on "Energy & Environment Conservation: Challenges and opportunities & Solutions"	JEC Kukas, Jaipur	December 5-6, 2009
5	Prof.. A. B. Gupta	All India seminar of environmental engineers on "Noise Pollution"	VIT, Jaipur,	March 6-7, 2010

6	Prof. A. B. Gupta	one day workshop on “Environmental flow in rivers”	NEERI Nagpur	June 5, 2009.
7	Prof. A. B. Gupta	one day workshop on “Revision of guidance manual on drinking water quality monitoring and assessment”	NEERI Nagpur	June 19, 2009

### Guest Lectures Organized in the Department

S. No.	Name of Speaker	Designation & Affiliation	Topic of Invited Lecture	Date
1	Dr. Sookoo Lee. Dr. Lee	Professor in Seoul National University of Technology	“Sludge Treatment (sludge derived fuels)”	18 <sup>th</sup> Feb’10
2	Dr. Rajesh Seth	Department of Civil & Environmental Engineering, University of Windsor, Ontario, CANADA	“FRESHWATER RESOURCE MANAGEMENT & ISSUES IN CANADA”	13 <sup>th</sup> Jan 2010

### Visitors to the Department

S. No.	Name of the Visitor	Designation	Affiliation	Purpose and Date(s)
1	Dr. Sookoo Lee. Dr. Lee	Professor	Seoul National University of Technology	Special talk on 18 <sup>th</sup> Feb’10
2	Dr. Rajesh Seth	Associate Professor, Department of Civil & Environmental Engineering,	University of Windsor, Ontario, CANADA	Special talk on 13 <sup>th</sup> Jan 2010

### Seminar/Conference/Workshop/Short term courses organized:

S No.	Name of the Faculty	Title of Event	Designation	Place	Date(s)
1	Prof.A. B. Gupta	All India seminar on Air Pollution Control	Member, Technical committee	IE(I), Jaipur	May 2-3, 2009
2	Prof. A. B. Gupta	All India seminar on Project management practices	Member, Technical committee	IE(I), Jaipur	April 25-26, 2009
3	Prof. A. B. Gupta	International Conference on “Advances in Mechanical and Building Sciences in the 3rd Millennium (ICAMB – 2009)”	Member, National Advisory Board	VIT University Vellore	December 14 – 16, 2009

## 11.7 LIST OF CANDIDATES PURSUING/AWARDED Ph. D./ M.Tech.

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

#### DEPARTMENT OF ARCHITECTURE

S. No.	Name of student	Supervisor	Title of thesis	Status
1.	Ms Ishita Saini	Ramniwas Sharma	Enquiry into the development trends and role of private developers in residential projects: A case of Jaipur	Submitted
2.	Ms. Meghana Agarwal	Tarush Chandra	Pedestrian Mobility with reference to sustainability in urban areas: a case study of Jaipur	Submitted
3.	Mr. Anubhav Mittal			Submitted
4.	Mr. Jasvant Singh	Mr. Nand Kumar	Impact on Urban Infrastructures Due to Activity Change in Raja Park area, Jaipur	Submitted
5.	Ms Priya Mathur	Rajeev Shringi	An Assesment of Residential Areas with Thrust on infrasturctre: a case of Jaipur	Submitted
6.	Mr Pawan Pal Daga	Tarush Chandra	Critical Mixed land use development a case of C-Scheme Jaipur	Submitted
7.	Ritu Sharma			Progress

#### DEPARTMENT OF CHEMICAL ENGINEERING

S. No.	Name of student	Supervisor/ Co-supervisor	Topic	Status
1.	Ms. Suja George	Dr. Prabhat Pandit (Supervisor) Prof.A.B.Gupta (Co-supervisor)	Thermodynamic Studies for Analysis of Alumino Fluoro complexes in drinking water.	Awarded
2.	Ms. Madhu Agarwal	Prof. S. P. Chaurasia (Supervisor) Dr. K. Singh (Co-supervisor)	Studies on Biodiesel.	Pursuing
3.	Mr. S. Upadhyaya	Prof. S.P. Chaurasia (Supervisor)	Membrane Separation	Pursuing
4.	Mr. Rajeev	Dr. Kailash Singh	Control of Distillation	Pursuing

	Dohare	(Supervisor)	Column	
5.	Ms. Monika Maheshwari	Dr. R.K. Vyas (Supervisor)	Removal of Antibiotics from Wastewater.	Pursuing
6.	Mr.Ravi Dhabhai	Prof. S. P. Chaurasia (Supervisor)	Studies on Bio-Ethanol Production.	Pursuing
7.	Ms. Kriti Bhandhari	Prof. S. P. Chaurasia (Supervisor) Prof. Alok Gupta (Co-supervisor)	Synthesis of DHA Rich Tri-Glyceride.	Pursuing
8.	Udai Bhanu Maheswari	Dr. S. P. Chaurasia (Supervisor) Prof.A.B.Gupta (Co-supervisor)	Development of low cost Desalination Technology using Nano Filtration Membrane.	Pursuing
9.	Ms. Parul Bhatt	Dr. Prabhat Pandit (Supervisor) Dr. R. K. Vyas (Co-Supervisor)	Studies on Removal Dyes from Wastewater	Pursuing
10.	Ms. Neha Sharma	Dr. Kailash Singh (Supervisor)	Modeling, Simulation and Control of Chemical Processes	Pursuing
11.	Mr. Sandeep Tomar	Dr. R. K. Vyas (Supervisor) Prof. A. B. Gupta (Co-Supervisor)	Nitrogen Removal from Wastewater	Pursuing
12.	Parul Arora	Prof.Alok Gupta (Supervisor)	Emulsion Polymerization	Pursuing
13.	Ms. Swati Jain	Dr. Prabhat Pandit (Supervisor) Dr.R.K.Vyas (Co-Supervisor)	Studies on Removal of Antiviral Drugs from Water/ Wastewater	Pursuing
14.	Ms.Isha Arya	Dr. S. K.Jana (Supervisor)	Studies on the performance of the foam bed reactor for gas-liquid and gas-liquid-solid system	Pursuing

#### DEPARTMENT OF CHEMISTRY

S. No.	Name of student	Supervisor	Topic	Status
1	Ms. Ritu Saharan	, Dr. Jyoti Joshi Prof. P. S.Verma	Some electrochemical and biocatalytic methods of organic synthesis	Continuing

2	Ms. Dipti Sharma	Prof. P. S. Verma, Co-supervisor Dr. Ragini Gupta	Design and Synthesis of Fluorine Containing Insecticides and Bio-insecticides	Submitted
3	Ms. Anshu Jain	Dr. Ragini Gupta	Synthesis of Novel Bioactive Heterocycles via Eco-friendly Routes	Continuing
4	Yogita Madan	Dr. Ragini Gupta	Catalysis and Nanocatalysis for Green Organic Transformations	Continuing
5	Neha Agarwal	Dr. Ragini Gupta	Click Chemistry and its Applications in Drug Discovery	Continuing
6	Mr. Abhishek Gupta	Dr. Mukesh Jain & Dr. B. S. Joshi	Chemothermal synthesis and Characterization of some transition metal complexes.	Continuing

#### DEPARTMENT OF CIVIL ENGINEERING

S. No.	Name of student	Supervisor	Topic	Status
1	Suja George	Dr. Prabhat Pandit and Prof. A.B. Gupta	Thermodynamic studies for analysis of Alumino-fluoro complexes in drinking water	Awarded
2	Nivedita Kaul	Prof. A.B. Gupta and Dr Jyotirmay Mathur	Particulate pollution in urban indoor environs	Ongoing
3	Lalit Joshi	Prof. A.B. Gupta and Dr Jyotirmay Mathur	Particulate pollution in rural indoor environs	Ongoing
4	Vineet Gupta	Prof. A.B. Gupta and Dr Jyotirmay Mathur	Particulate pollution in air conditioned indoors	Ongoing
5	Rajneesh Jain	Prof. A.B. Gupta and Dr Jyotirmay Mathur	Particulate pollution in urban industrial indoors	Ongoing
6	D.R. Jangid	Prof. A.B. Gupta Dr. R.K. Vyas	Optimization of sewage treatment in the presence of dyes	Ongoing
7	Dipak N. Kongre	Prof. Rohit Goyal	Water Resource Management Study of Proposed Parbati–Kalisindh–Chambal Link Project	Ongoing
8	Vijay Kumar Singhal	Prof. Rohit Goyal	Ground Water Quality Modeling of Pali District	Ongoing

9	Sumit Khandelwal	Prof. Rohit Goyal	Urban Heat Island	Ongoing
10	Mr. Pradeep Agarwal	Prof. Rohit Goyal		Ongoing
11.	S B Patil	Prof. A K Vyas	Application of solidification/stabilization technique - use of imperial smelting furnace slag as a construction material	Submitted
12.	S.M.S.Shashidhara	Prof. A K Vyas	Study on Characterisation of ISF slag as replacement of Fine aggregate in concrete	Ongoing
13.	Shilpa Shrimal	Meena Khwairakpam	Solid waste management using system dynamics	Ongoing
14.	M. N. Pande	Dr. Mahesh K. Jat Dr. Mahender Choudhary	Rainfall-runoff modeling for urbanized watersheds	Ongoing
15	Arun Gaur	Prof. Gunwant Sharma	Cold Mix Design for Indian Roads	Ongoing
16	Ladley Mohan Verma	Prof. Gunwant Sharma	Reservoir Operation using Optimization Techniques	Ongoing
17	J.K. Jain	Prof. Y.P. Mathur and Prof. Gunwant Sharma	Mass Transit System of Jaipur City	Ongoing

### DEPARTMENT OF COMPUTER ENGINEERING

S. No	Name of student	Supervisor	Topic	Status
1.	Vinod P.	V.Laxmi/M.Gaur	Metamorphic Malware	Under Progress
2	K.K.Paliwal	M.S.Gaur	QoS in Network on Chip	Thesis defended (October, 2010)
3	N.Nain	V.Laxmi	Interest Point Detection and its Hardware Implementation	Thesis submitted
4	Jyoti Grover	M.S.Gaur/V.Laxmi	Security Issues in Vehicular Adhoc Network	Under Progress
5.	Preety Singh	M.S.Gaur/V.Laxmi	Audio-Visual Speech Recognition	Under Progress
6	Rajbir Kaur	M.S.Gaur/V.Laxmi	Security Issues in MANETs	Under Progress
7.	Chhagan Lal	V.Laxmi/M.S.Gaur	--	Course Work
8	Reena	M.S.Gaur/K.K.Sha	Digital Water marking	Under Progress

	Gunjan	rma		
9	M.Ahmed	V.Laxmi	Fault Tolerance in NoC	Under Progress
10	N.Mittal	K.C.Jain	Data Mining	Under Progress
11	Naveen Choudhary	M.S.Gaur/V.Singh	Irregular Topology Generation in NoC	Thesis submitted
12	D.Gopalani	K.C.Jain	Aspect Oriented Calculas	Under Progress

### DEPARTMENT OF ELECTRICAL ENGINEERING

S. No.	Name of student	Supervisor	Topic	Status
1.	Mrs. Nikita Jhajharia	Dr. C. M Arora	Power system security assessment and preventive control	Pursuing
2.	V.S Pareek	Dr.C.M Arora	Reduction of losses in power system	Pursuing
3.	Naresh Kumar	Dr.C.M Arora	Reactive power compensation in power system	Pursuing
4.	Amit soni	Dr.C.M Arora and Dr. Vikas Gupta	Investigation of properties of materials used for solar photovoltaic cells and applications of the solar cells.	Pursuing
5.	Ashok kumar Agarwal	Dr.C.M Arora	Power system.	Pursuing
6.	Mrs. Kusum Dangi	Dr. K. R Niazi	On-line Security Assessment of Power System using Artificial Intelligence (AI) Techniques)	Pursuing
7.	RameshKumar Pacher	Dr.H. P Tiwari, Dr. R.C Bansal	Static Transfer Switch application to Power system	Pursuing
8.	Sunil kr. Gupta	Dr.H. P Tiwari	Enhancement in a power system with dynamic voltage Restorer	Pursuing
9.	Sudhanshu Gupta	Dr.H. P Tiwari	Transient Fault Behavior And Power Quality Assiment of Inter Connected DG System	Pursuing
10.	Lata Gidwani	Dr.H. P Tiwari	Wind Energy Integration In Electrical Power Grid: Power Quality Improvement	Pursuing
11.	Akash Saxena	Dr. Vikas Gupta	Facts	Pursuing
12.	Rajive Tiwari	Dr. Vikas Gupta & Prof K.R.Niazi	Voltage stability assessment and preventive control	Pursuing
13.	S.V.Bhangale	Prof. RAGupta & Dr. Rajesh Kumar	High performance direct torque controlled induction motor drive.	Submitted
14.	Manoj Gupta	Prof. RAGupta	Analysis of power quality	Under

		& Dr. Rajesh Kumar	disturbance using AI. Techniques.	progress
15.	Shree Krishna	Prof. RAGupta & Dr. Rajesh Kumar	AI. Based control and estimation of switched reluctance motor drives.	Under progress
16.	Rajesh. S. Surjuse	Prof. RAGupta & Dr. Rajesh Kumar	Artificial-Intelligence based high performance Induction Motor Drive.	Submitted
17.	Ajay Kumar Bansal	Prof. RAGupta & Dr. Rajesh Kumar	AI application on PMBLDC Drive.	Under progress
18.	Virender Swaroop Santani	Prof. RAGupta	Matrix converter fed induction motor drives.	Under Progress.
19.	Mahaveer Prasad Sharma	Prof. Mool Singh	Analysis of Northern Region Indian Power system for restoration after major power failure using analytic tools	Awarded
20.	Mahendra Lalwani	Prof. Mool Singh	Integrated operation of non-conventional sources	Continuing
21.	Javed Khan Bhutto	Prof. Mool Singh	Enhancing energy Efficiency in PV system using Power conditioning unit	Continuing
22.	Pushpendra Singh	Prof. Mool Singh	Smart Grid	Continuing
23.	Sanjay K Bansal	Prof K.R.Niazi	Dynamic performance improvement using FACTS Controller	Submitted
24.	Atul R. Phadke	Prof K.R.Niazi Dr. Fozdar	Voltage Stability Assessment and Margin Enhancement with FACTS devices	Submitted
25.	Nikhil Gupta	Prof K.R.Niazi	Distribution System Performance Improvement	In progress
26.	Anil Swarnkar	Prof K.R.Niazi	Distribution Network Reconfiguration using AI Techniques	In progress
27.	M.Ali	Dr. Fozdar Prof K.R.Niazi	Power Quality Analysis	In progress

#### **DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING**

<b>S. No.</b>	<b>Name of student</b>	<b>Supervisor</b>	<b>Topic</b>	<b>Status</b>
1.	Hitendra Gupta	Dr. K.K.Sharma	Restoration of fog-degraded images	Pursuing

2.	Praveen Gupta	Dr. K.K.Sharma	Modeling of ECG signals	Pursuing
3.	JankiBallabh Sharma	Dr. K.K.Sharma, Dr. Vineet Sahula	Fractional systems and transforms	Pursuing
4.	Deepak Jhanwar	Prof. S.G. Modani, Dr. K.K.Sharma	Speech processing	Pursuing
5.	Ulhas Deshmukh	Dr. Vineet Sahula	On performance evaluation of SoC communication architectures	Completed/awarded
6.	D. Boolchandani	Dr. Vineet Sahula	Macro-modeling Analog sub-systems	submitted
7.	Dhirendra Mathur	Dr. Vineet Sahula, Dr. S. K. Bhatnagar (Ex-scientist, CEERI, Pilani)	Chip scale packaging	Research plan submitted
8.	R. A. Patil	Dr. Vineet Sahula, Dr. A. S> Mandal (Sr. scientist CEERI, Pilani)	Algorithms for Machine Vision and their hardware/software implementation	Research plan submitted
9.	Renu Kumawat	Dr. Vineet Sahula, Dr. M. S. Gaur	Nanoscale reliable memory architectures	Continuing since Jan. 2009
10.	Lokesh Garg	Dr. Vineet Sahula	Variability Aware Sntesis of Analog sstems	Continuing since July 2010
11.	Shri Mahanth Prasad	Dr. Vineet Sahula, Dr. V. K. Khanna (CEERI Pilani), Dr. R. P. Yadav	MEMS devices for sensor applications	Continuing since July 2009
	Sudhhir Kesri	Prof. S. G. Modani		
	MAHABIR PRASAD	Prof. S. G. Modani		
	Shri Sanjay Kumar Singh	Prof. S. G. Modani		
	Shri Sanjeev Kumar Metya	Prof. S. G. Modani		
	Manish Tiwari	Dr. Vijay Janyani		
	Nagesh Janrao	Dr. Vijay Janyani		
	Ritu Sharma (Ms.)	Dr. Vijay Janyani		
	Ms. Parul Pathak (Rawat)	Dr. Vijay Janyani		

## DEPARTMENT OF HUMANITIES

S. No.	Name of student	Supervisor	Topic	Status
1.	Mrs. Niraja Saraswat	Dr.Nupur Tandon	‘Victorian Drama and an Analysis of Women in Shaw’s Plays’	Pursuing
2.	Ms. Apeksha	Dr.Nupur Tandon	‘Whiting-The Dramatist of Existential Absurdity’	Pursuing
3.	Mr.Asif Iqbal	Dr.Nupur Tandon	‘Problematic Speech Sounds of English for Hindi speakers’	Pursuing
4	Ms.Vandita Batra	Dr.Nupur Tandon	‘Socio-political concerns in the works of Howard Brenton and David Hare:An Analysis’	Pursuing
5	Manju Nemad	Dr. Preeti Bhatt	The Dynamic Nature of the Self in the Short Stories of Doris Lessing	Pursuing
6	Kalpna Vijay	Dr. Preeti Bhatt	The Fiction of Angela Carter (Tentative)	Pursuing
7	Ritu Pareek	Dr. Preeti Bhatt	Indian Diasporic Writers (Tentative)	Pursuing
8	Ms. Oum Kumari R.	Dr.Dipti Sharma & Dr. Geetanjali Sharma	‘End Use Pattern of Electricity Consumption in Jaipur City – A Demand Side Management Approach’	Pursuing
9	Ms. Deepika Joshi	Prof. APS Rathore & Dr. Dipti Sharma	‘Determinants of Competitiveness in Auto-Component Industry: A Comparative Study of India & UK Auto ComponentManufactureres.’	Pursuing
10	Ms. Sushila Singh	Dr.Dipti Sharma & Dr. A.K. Solanki	‘Impact of Celebrity Endorsement on a Brand’	Pursuing
11	Ms. Manisha Chaudhary	Dr.Dipti Sharma	‘Effective utilization of electricity and resources in Power Sector: An Analysis of Open Access and Power Trading Process’	Pursuing

## DEPARTMENT OF MECHANICAL ENGINEERING

S. No.	Name of student	Supervisor	Topic	Status
1.	Ugandhar Puli	Dr.A.K.Rajvanshi	Investigation of heat transfer phenomenon in subcooled flow boiling	Awarded
2.	Kunj Bihari Rana	Dr.A.K.Rajvanshi	Investigation of heat transfer characteristics of nano-fluids in subcooled flow boiling	Pursuing
3.	A. D. Sharma	Dr. G. S. Dangayach Prof. S C Pathak	Advanced Manufacturing Technologies: A Multi Sector Study of Indian Manufacturing Companies	Awarded
4.	R. P. Rajoria	Dr. G. S. Dangayach Prof. S. K. Gupta	Failure Analysis of Antifriction Bearings	Awarded
5.	Jinesh Jain	Dr. G. S. Dangayach Prof. G. Agarwal	Supply Chain Management	Pursuing
6.	Ajeet Singh Poonia	Dr. A. Bhardwaj Dr. G. S. Dangayach	Technology Management	Pursuing
7.	Piyush Mishra	Dr. G. S. Dangayach Dr. M. L. Mittal	Project Management	Pursuing
8.	Anupam Krishna	Dr. G. S. Dangayach Prof. Rakesh Jain	Service Failure Management	Pursuing
9.	Alok Mathur	Dr. G. S. Dangayach Dr. M. L. Mittal	Productivity Improvement	Pursuing
10	M. L. Meena	Dr. G. S. Dangayach Dr. A. Bhardwaj	Ergonomics	Pursuing
11	Charan Singh	Dr. G. S. Dangayach	Stress Management in ATC	Pursuing
12	R R Saraf	Prof.P.K.Saxena	Comparative experimental performance analysis of alternate fuels vis a vis conventional fuels in IC engines.	In progress
13	Kamal K. Khatri	Prof. S. L. Soni Dr. Dilip Sharma	Studies on Straight Vegetable Oil (SVO) Diesel Blend Operated Trigenation System	Submitted

14	Jitender Kumar Jain	Prof. S. L. Soni Dr. Dilip Sharma	Development of Software Simulator for Predicting Design Parameters of Gas Guns	Pursuing
15	Priyanka Yadav	Prof. S. L. Soni Dr. Dilip Sharma	Ventilation studies	Pursuing
16	Doraj Kamal Jomwal	Prof. S. L. Soni Dr. Dilip Sharma	Studies on Ethanol substitution in CI engine	Pursuing
17	Ramkumar Agarwal	Prof. D.K. Jain Dr. Dilip Sharma	Energy Distribution	Pursuing

#### DEPARTMENT OF MATHEMATICS

S. No.	Name of student	Supervisor	Topic	Status
1.	Ranjeeta Nahar	Prof. Rashmi Jain	Special Functions	Awarded
2.	Vandana Agrawal	Prof. Kantesh Gupta	Special Functions	Awarded
3.	Ruchi Mathur	Prof. K.C. Jain	Information Theory	Continuing
4.	Ram Naresh	-do-	-do-	Continuing
5.	Beena Bundela	-do-	-do-	Continuing
6.	Alpana	-do-	-do-	Continuing
7.	Vishwas Joshi	Dr. Nilama Gupta	Operation Research	Continuing
8.	Sonia	-do-	-do-	Continuing
9.	Monika Wiseman	Dr. R.C.Soni	Special Functions	Submitted Thesis
10.	Shalini Shekhawat	Dr. Sanjay Bhattar & Prof. Rashmi Jain	Special Functions	Continuing
11.	Pradeep kumar	Dr. Santosh Chaudhary	Fluid Dynamics	Continuing

#### DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

S. No.	Name of student	Supervisor	Topic	Status
1.	Mr. Satish Tailor	Prof. P.R. Soni Dr. V.K. Sharma	“Investigations on plasma sprayed aluminium based	In Progress

			monocomposite coatings”	
2.	Mr. Phool Chand Meena	Prof. Ashok Sharma	Characterization Studies in Grain Refinement of AL and AL-Si Alloys By The Addition Of AL-Ti-AC Master Alloys.	In Progress
3.	Mr. R.K. Duchania	Prof. Ashok Sharma	Study of Corrosion Control by Electroless Ni-P Coating	In Progress
4.	Mr. A.A. Gadhikar	Prof. Ashok Sharma/ Prof. C.P. Sharma	Characterization Study of Steel for Erosion Resistant Application	In Progress
5.	Pramod Kr. Sain	Prof. A.K. Bhargava	Development of Cost Iron for High Temperature Corrosion and oxidation, Resistance Application.	In Progress

#### DEPARTMENT OF PHYSICS

S. No.	Name of student	Supervisor	Topic	Status
1	Shubhra Mathur (Full-Time)	Dr. K.Sachdev Prof. S.K. Sharma	Study of Thermo-chemical Behaviour of Some Metallic Glasses	Synopsis submitted
2	Abhishek Sharma (Full-Time)	Prof. K.C.Swami	Study of Effects of Plasma Nitriding Process on Some Nitridable Materials	Completed course-work
3	Rishi Vyas (Full-Time)	Prof. S.K. Sharma Dr. K.Sachdev	Study of gas sensing behavior of nanostructured ZnO thin films	Completed course-work
4	Kanan Jassal (Part-Time)	Dr. K.Sachdev Dr. A. Choughule	Dosimetric Aspects of a-Si based EPID & its application in Advance Radiotherapy	Completed course-work

#### DEPARTMENT OF STRUCTURAL ENGINEERING

S. No.	Name of student	Supervisor	Topic	Status
1.	S.M. Dumne	Dr. M.K. Shrimali	Semi-active Hybrid Control for Seismically Excited Coupled Buikling Involving Base Isolation	Completed

## DEPARTMENT OF MANAGEMENT STUDIES

S. No.	Name of student	Supervisor	Topic	Status
1.	Miss. Deepika Joshi	Prof. APS Rathore	Strategic Management	Pursuing
2.	Mrs Khusbho Jain	Dr. Geetanjali Sharma	Performance Appraisal	Pursuing
3.	Mrs Sushila Singh	Dr. Deepti Sharma	Brand Management	Pursuing
4	Mr. Sanjay Gaur	Dr. A. Bhardwaj	Quality in HR	Pursuing
5	Mr. 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.	Ms. Manisha Chaudhary	Dr. Deepti Sharma	Effective utilization of electricity and resources in Power Sector: An Analysis of Open Access and Power Trading Process'	Pursuing

## CENTER OF ENERGY AND ENVIRONMENT

S. No.	Name of student	Supervisor	Topic	Status
1	Ms Suja George	Dr. Prabhat Pandit Prof. A.B. Gupta	Thermodynamic studies for analysis of Alumino-fluoro complexes in drinking water	Thesis awarded
2	Ms Nivedita Kaul	Prof. A.B. Gupta and Dr Jyotirmay Mathur	Particulate pollution in urban indoor environs	Work in progress
3	Mr. Lalit Joshi	Prof. A.B. Gupta and Dr Jyotirmay Mathur	Particulate pollution in rural indoor environs	Work in progress
4	Mr Vineet Gupta	Prof. A.B. Gupta and Dr Jyotirmay Mathur	Particulate pollution in air conditioned indoors	Work in progress
5	Mr. Rajneesh Jain	Prof. A.B. Gupta and Dr Jyotirmay Mathur	Particulate pollution in urban industrial indoors	Work in progress
6	Mr. D.R. Jangid	Prof. A.B. Gupta Dr. R.K. Vyas	Optimization of sewage treatment in the presence of dyes	Work in progress

**CENTRAL COMPUTER CENTER**

<b>S. No.</b>	<b>Name of student</b>	<b>Supervisor</b>	<b>Topic</b>	<b>Status</b>
1.	Ms. Khusboo Jain	Dr. Geetanjali Sharma & Dr. A.K. Solanki		Working
2.	Ms. Sushila Singh	Dr. Dipti Sharma and Dr. A.K.Solanki		Working

**List of Candidates Awarded M. Tech. Degree****DEPARTMENT OF CHEMICAL ENGINEERING**

<b>S. No.</b>	<b>Name of student</b>	<b>Supervisor</b>	<b>Title of thesis</b>	<b>Status</b>
1.	Aditi Sharma	Prof. S.P. Chaurasia	Studies on synthesis of DHA rich glycerides from fish oil	Awarded
2.	Piyush Paliwal	Dr. Kailash Singh	Control of reactive distillation column	Awarded
3.	Sandip Kumar Patel	Dr. Kailash Singh	Modelling, simulation, and control of Fischer-Tropsch reactor	Awarded
4.	Ms. Poonam Motwani	Dr. R. K. Vyas	Studies on Sulphamethoxazole Removal from Water by Adsorption and AOP	Awarded
5.	Ajendra Kumar	Dr. R. K. Vyas	Studies on Removal of Dyes from Wastewater	Awarded
6.	Mradula Khandelwal	Dr. S.K. Jana	Studies on Foam-bed Reactor for Carbonation of Hydrated Lime Slurry using Lean Carbon-dioxide Gas	Awarded
7.	Garima Chauhan	Mrs. Madhu Agarwal	Comparative Study of Homogeneous and Hetrogeneous catalyst for Biodiesel Production	Awarded
8.	Meena Krishania	Prof. S.P. Chaurasia	Bioethanol Production from Lignocellulosic Materials	Awarded
9.	Ashok Kumar Yadav	Dr. S.K. Jana	Studies on Foam-bed Reactor for Carbonation of Hydrated Lime Slurry using Pure Carbon-dioxide Gas	Awarded

## DEPARTMENT OF CIVIL ENGINEERING

S. NO.	Investigator	Supervisor	Title of thesis	Status
1	Savita	Prof. A.B. Gupta and Dr Suja George	Effect on activated alumina adsorption capacities in presence of sulphate and chloride	Awarded
2	Shilpa Shrimal	Meena Khwairakpam, Sudhir Kumar	Effect of C/N ratio on vermicomposting of kitchen waste	Awarded
3	Mr. Rahul Sharma	Prof. Rohit Goyal	Spectral Analysis of Multi-Date MODIS Data for Jaipur District	Awarded
4	Pratap Singh	Pawan Kalla	Traffic Studies For Proposed Ring Road.	Awarded
5	Shiv Narayan Mishra	Pawan Kalla	Soil Stabilization Using Flyash and Stone Dust	Awarded
6	Priyansha Mehra	Pawan Kalla	Strength, Abrasion and Absorption Characteristics of Jarosite Added Concrete.	Awarded
7	Nitin Kumar Pathak	Arun Gaur	Cold Mix designs for Dense Bitumen Mixes	Awarded
8	Kailash Chand Maeena	Arun Gaur	Development of Parking Standards for shopping centres and Educational institution	Awarded
9	Sachin Gupta	Arun Gaur	Cold Mix designs for Semi Dense Mixes	Awarded
10	Sujata Sharma	Meena Khwairakpam	Effect of stocking density on biomass, growth and reproduction of <i>Eudrilus eugeniae</i>	Ongoing
11	Sheetal Singh	Meena Khwairakpam and Y.P. Mathur	Comparison of physical properties of vermicomposting and composting matrix	Ongoing
12	Yashwant Laxkar	Meena Khwairakpam and Sanjay Mathur	Stability analysis of vermicompost	Ongoing
13	Yog Bahadur Chad	Pawan Kalla	Strength, Carbonation and Permeability Studies on Wollastonite Added Concrete	Ongoing
14	Ankur Singh	Pawan Kalla	A Study on Design, Performance Analysis & Cost Effectiveness of Pothole Repair By Cold Patching Mix.	Ongoing
15	Priyanka Manat	Pawan Kalla	Modern Toll Collection Systems	Ongoing
16	Anita Kumari	Arun Gaur	Widening and strengthening of nh-8 km 245 to 246	Ongoing
17	Parvinder Kumar	Arun Gaur	Development of CC Road software for High Density Corridor	Ongoing
18.	Satendra Mamodia	Arun Gaur	Drainage Problems of Multi Lane Highways in Suburban Areas and Solution	Ongoing

## DEPARTMENT OF COMPUTER ENGINEERING

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 Rotuing 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.	Mahboob Alam	Vijay Laxmi	Linear Canonical Transform and its Applications in Image Processing	Completed
10.	Maninder Singh Nehra	Vijay Laxmi	Development of RST Invariant Digital Watermarking Techniques	Completed
11.	Anupama	Vijay Laxmi M.S.Gaur	Circuit Partitioning Algorithms for Parallel Logic Simulation	Completed
12.	Monica Bhandari	Vijay Laxmi M.S.Gaur	Multi-Core EDA	Completed
13.	Bhupendra Singh Sankhla	M.S.Gaur Vijay Laxmi	Metamorph: Code Morpher and Metamorphic Malware Analysis	Completed
14.	Ravi Raj Choudhary	Vijay Laxmi M.S.Gaur	Malware Detection through Data Mining	Completed
15.	Shilpa Gupta	Vijay Laxmi	Visual Cryptography Scheme and Vote Verifiability in e-voting	Completed

## DEPARTMENT OF ELECTRICAL ENGINEERING

S. NO.	Name of student	Supervisor	Title of thesis	Status
1)	Amrat Kumar	Anil Swarankar	A Comparison of Electric Power Tracing Methods used in Deregulated Power System	Awarded
2)	Suman D Sharma	Dr. H.P.Tiwari	Speed control of induction motor using fuzzy logic based controller	Awarded
3)	Vimal Kumar	Dr. H.P.Tiwari	Automatic Generation Control of An Interconnected Multilevel Area Thermal-Thermal System in Deregulated.	Awarded
4)	Ashok Bishnoi	Dr. H.P.Tiwari Dr. Manoj Fauzdar	Performance Investigation of Cascade Multilevel Inverter Based DSTATCOM	Awarded
5)	Shivraj Sharma	Kusum Dangi	Simulation and Analysis of DFIG System with Wind Turbine Implementing Fuzzy Logic Controller	Awarded
6)	Archana Singh	V.S Pareek	Fuzzy controller to minimize the effect of HVDC commutation failure	Awarded
7)	Parmeshwar	A.K Agarwal	A very fast and effective non-iterative lambda logic based algorithm for economic load dispatch	Awarded
8)	Pradeep Jakhar	M.K Shah	Application of particle swarm optimization for economic load dispatch problem	Awarded
9)	Parul Mathuria	V.K Jain	Mathematical modeling of stand alone photovoltaic system	Awarded
10)	Vipul Sharma	C.M Arora	Generation of electrical power from wastewater by microbial fuel cell	Awarded
11)	Supriya	Nikita Jhaharia	Impact of capacitor bank and OLTC operation on energy savings and other technical parameters	Awarded
12)	Kamlesh kr. Khedar	Dr. Manoj Fozdar	Reactive power management and voltage control by using STATcom	Awarded
13)	Chhatar Singh Bhati	Dr. K.R Niazi	Optimal placement of TCSC using Genetic Algorithm	Awarded
14)	Gaurav Kumar	Dr. Vikas Gupta	Simulation of a wind turbine with permanent magnet synch. Generator	Awarded
15)	Pushpendra singh	V.S Pareek	Voltage control in distribution network having DG by using UPFC	Awarded

## DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING

S. NO.	Name of student	Supervisor	Title of thesis	Status
1.	Vijay Kr. Arya	Ghanshyam Singh	Characterization of titanium diffused lithium niobate Mach-Zehnder Interferometric all optical switches.	Completed
2.	Shruti kalra	Ghanshyam Singh	Digital optical switches: Design and analysis of their switching behaviour.	Completed
	Sudhir Kesri	Dr. K. K. Sharma	Comparison of different phase masks in color image encryption/decryption on fractional Fourier transform domains	Completed
	Jyoti Sharma	Dr. K. K. Sharma	Power quality analysis using time and thresholding technique	Completed
	Krishna Singh	Dr. K. K. Sharma	Generalized homomorphic and root filtering using fractional Fourier transform	Completed
	Ankur Agarwal	Dr. K. K. Sharma	Signal reconstruction in fractional domains using nonuniform sampling	Completed
	<i>Pankaj Jha</i>	Dr. Vineet Sahula	Nanoscale devices for digital logic	Completed
	<i>Namita Sharma</i>	Dr. Vineet Sahula	Power estimation technique for embedded systems	Completed
	<i>Lokesh Garg</i>	Dr. Vineet Sahula & Mr. D. Boolchandani	Exploring variability aware sizing of Analog circuits: A case study using Cascode opamp in 90nm	Completed
	<i>Sapna Khandelwal</i>	Dr. Vineet Sahula & Mr. D. Boolchandani	Exploring variability aware sizing of Analog circuits: A case study using VCO in 90nm	Completed

## DEPARTMENT OF MECHANICAL ENGINEERING

S. NO.	Name of student	Supervisor	Title of thesis	Status
1.	Hamiduddin Ahmed	Dr.A.K.Rajvanshi	Effect of pressure on nucleate pool boiling in high heat flux region	Awarded
2.	Moti Lal Rinawa	Dr.A.K.Rajvanshi	Heat transfer correlation in nucleate pool boiling	Awarded
3.	Sumit Gupta	Dr. G. S. Dangayach	Implementation of Shainin DOE Technique in an Automotive Industry	Submitted
4.	Kunal Sharma	Dr. G. S. Dangayach	Performance Measurement in a Process sector industry	Submitted

5.	Vikas Shringi	Dr. H. Chaudhary & Dr. M.L. Mittal	Design Improvements in Tricycle used for Physically Challenged People	Submitted
----	---------------	------------------------------------	---	-----------

### DEPARTMENT OF STRUCTURAL ENGINEERING

S. No.	Name of student	Supervisor	Title of thesis	Status
1.	Aniket Sharma 2008/PST/114	Dr. Vinay Agrawal	Prediction of Slump in Concrete using Artificial Neural Networks	Completed
2.	Nishant Khandelwal 2008/PST/106	Dr. Vinay Agrawal	Shear Strength Characteristics of Stabilized Fly Ash	
3.	Mahendra Kumar Verma 2007PST112	Dr. Vinay Agrawal	Prediction of Moments in RCC Continuous Beam using Artificial Neural Network	
4.	Vishal Srivastava 2007PST110	Dr. Ravindra Nagar	A Study of Shear Wall Configuration on Building Performance	
5	Ankit Gupta 2007PST101	Dr. S.K. Tiwari	Study on Behaviour of Reinforced Expansive Soil	
6	Amit Singh 2008PST127	Dr. Anurag Misra	Durability Studies on Concrete Prepared with MgO Base	
7	Amit Garg 2008PST108	Dr. Anurag Misra	Study of Utilization of Marble Powder in Structural Concrete	
8	Ms. Sonal Bafna 2008PST120	Dr. Ravindra Nagar	Artificial Neural Networks and its Application to Structural Engg.	
9	Indra Prakash Chaudhary 2008PST128	Dr. Sandeep Chaudhary	Experimental Evaluation of Interlocking Concrete Blocks	
10	Rahul Kumar Garg 2008PST103	Dr. Ravindra Nagar	Differential Study Difflection Among Framed, Shear Wall Framed and Coupled Shear Wall Framed Structures	
11	Nishant Khandelwal 2008PST106	Dr. S.K. Tiwari	Experimental Study on Shear Strength of Stabilized Fly Ash	
12	Tarun Singhal 2008PST109	Dr. S.K. Tiwari	Experimental Study on Permeability and Compaction Characteristics of Stabilized Fly Ash	
13	Ankush Ganda 2008PST110	Dr. Vinay Agrawal	Suitability & Concrete Containing ISF Slag as Construction Material	

14	Nikhil Sharma 2008PST102	Dr. R.C. Gupta	A Study on Jarosite Added Concrete	
15	Gaurav Saraswat 2008PST113	Dr. Sandeep Chaudhary	Analysis of Interlocking Concrete Masonary Using FEM	
16	Girish Kumar Sharma 2008PST101	Dr. M.K. Shrimali & Dr. S.D. Bharti	Dynamic Analysis of Box Girder Bridges	
17	Kamlesh Mangal 2008PST104	Dr. M.K. Shrimali & Dr. S.D. Bharti	Seismic Response of R.C. Building with Masonry In-fill	
18	Arun Singh Chauhan 2008PST107	Dr. M.K. Shrimali & Dr. S.D. Bharti	Seismic Analysis of Pressure Vessel	
19	Ruchi Gupta (Ms) 2008PST105	Dr. M.K. Shrimali & Dr. S.D. Bharti	Seismic Analysis of Silos	
20	BABU LAL JAT 2007/PST/108	Dr. R.C. Gupta	Strength and absorption characteristic of concrete prepared with magnesium oxide cement	
21	ABU BAKKAR 2007/PST/109	Dr. Ravindra Nagar	A study of post tensioned flat slabs with and without drop panels	
22	Sunil Sharma 0661813	Dr. Anurag Misra	Strength, abrasion and absorption characteristics of fly ash based geopolymers concrete	

## 11.8 HONOURS AND AWARDS TO FACULTY MEMBERS

### DEPARTMENT OF CHEMICAL ENGINEERING

S.No	Faculty	Awards/Honours	Date
1.	Prof. S. P. Chaurasia	<b>Certificate of appreciation</b> from the Director of MNIT Jaipur for working as Nodal Officer (Finance) of TEQIP	January 26, 2010
2.	Dr. R. K. Vyas	<b>Awarded Plaque</b> for the Contribution in the field of Chemical Engineering, by Poddar International College, Mansarovar, Jaipur	January 30, 2010
3.	Dr. R. K. Vyas	Invited presentation as <b>Eminent Speaker</b> on "Trends in Wastewater and Greywater Treatment and Reuse" at National Symposium on Emerging Trends and Opportunities in Basic and Applied Sciences held at Poddar International College, Mansarovar, Jaipur	January 30, 2010

4.	Dr. R. K. Vyas	Delivered <b>Invited Expert Lecture</b> entitled, “Wastewater Treatment Technology” 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	November 14, 2009
5.	Prof. S. P. Chaurasia	<b>Expert member</b> of the selection committee for Faculty selection of MITS Gwalior	January 30, 2010
6.	Prof. S. P. Chaurasia	<b>Expert member</b> of the selection committee for Faculty selection of NIT Jalandhar	February 14, 2010
7.	Sushant Upadhyaya	<b>Shikshak Shree</b> at Krishna Menan Bhawan, Supreme Court New Delhi	September 14, 2009

#### DEPARTMENT OF CHEMISTRY

##### **Dr. Jyoti Joshi:**

1. Member BOG, MNIT, Jaipur
2. Member of NIT vision document committee, MNIT, Jaipur.
3. Member of Advisory committee of National Symposium on New & Renewable energy, 30-31 March, 2010 organized by MITRC, Alwar (Rajasthan).

##### **Dr. Mukesh Jain**

1. Working as Assistant Editor in an internal journal “Heterocyclic Communications” Published by Freund Publishing House , England .

#### DEPARTMENT OF CIVIL ENGINEERING

##### **Prof. A.B. Gupta**

1. Special invitee for the meeting of Programme Advisory Committee for Civil Engineering of the Department of Science & Technology, GOI on May 9, 2009 held at LNMIIT, Jaipur.
2. Nominated as a member of the Academic Council of ICG Jaipur in 2009 for 2 years.
3. Delivered a special lecture titled “Environmental Considerations in PMGSY”, in the PMGSY training course at IGPRS Jaipur on June 9, 2009.
4. Attended one day workshop on “Environmental flow in rivers” as an invited member at NEERI Nagpur on June 5, 2009.
5. Attended one day workshop on “Revision of guidance manual on drinking water quality monitoring and assessment” as an invited member at NEERI Nagpur on June 19, 2009.
6. Became lifetime fellow of the Institution of Engineers.

7. Elected as a Member of high power committee on Environmental safeguard in Aravalli hills constituted under the chairmanship of the Chief Secretary of Rajasthan.
8. Member of selection committees of UPSC and RPSC for various engineering posts.
9. Was member of the experts' committee for DST sponsored Brainstorming and Project formulation workshop on "Development of schedule caste community in arid zone", held at BISR, Jaipur, August 2-3, 2009.
10. Member of the committee constituted by the Chief minister of the state for assessing the environmental impact of fire in the IOC Depot, Sitapura, Jaipur and suggesting precautionary/corrective measures, November 2009.
11. A. B. Gupta, Key note address titled "Energy analysis of sewage treatment plants and its relation to process performance- How much to conserve?", delivered at ISTE Faculty convention and National Conference on "Energy & Environment Conservation: Challenges and opportunities & Solutions", December 6, 2009, JEC Kukas, Jaipur.
12. A. B. Gupta. Delivered an invited talk titled " Pollution from Automobiles and human health with special emphasis on PM" at the International Workshop on "Advances in Combustion and Transportation", IIT Kanpur, Jan 10-12, 2009.
13. Member of the selection committee for recruitment of scientists at NEERI Nagpur.
14. A. B. Gupta. Make noise but silently. Key note address at all India seminar of environmental engineers on "Noise Pollution" organized jointly by IE(I) and VIT, Jaipur, March 6, 2010.
15. A. B. Gupta. Delivered an invited talk titled "Presence of fluorides and nitrates in drinking water and human health – a case study of Rajasthan", at the International Conference on Environmental Health and Technology, March 15-17, 2010, IIT Kanpur.
16. A.B Gupta Delivered an invited talk titled "Biological Processes for wastewater treatment- The changing scenario" at 2010 ITT China & India Forum on Accelerated Growth - Strategic Collaboration - Talent Development, at Hotel Ummed Palace, Jodhpur on April 8, 2010.
17. A.B. Gupta Delivered a Key note address "Problem of fluorides and nitrates in Rajasthan– time for rethinking?" at all India seminar on "Water awareness and management for rural area", April 28-29, 2010, IE(I), Jaipur. Also chaired a technical session and was the chief guest of the valedictory function.
18. G.M. Nawathe Puraskar for best paper in the National conference on "Hydraulics, Water resources and Environment HYDRO 2008, 15-16 Dec, Jaipur, India

## **DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING**

### **Ghanshyam Choudhary,**

(i) Receptient of CIMO Fellowship, Government of Finland (with maximum allowed grant @ Euro 1200/pm) to carry out research work with photonics groups associated with Nano Fabrication Facilities @ Department of Physics and Mathematics, Univeristy of Eastern Finalnd, Joensuu Campus, Finland for a period of six month (Janaury 1<sup>st</sup>, 2010 to June 30<sup>th</sup>, 2010).

(ii) Reviewing work

- The Journal of Optics A: Pure and Applied Optics, Institute of Physics, USA, IOP Publishing Limited for the year 2008, 2009, 2010.

- Optics and Photonics Letters. The World Scientific and Engineering Academy and Society.
- Optical fiber communication authored by Gerd Keiser 4<sup>th</sup> edition, Tata McGraw-Hill Publication, New Delhi, India, Jan. 2010.
- IEEE conference ICIS 2010, IJRC Conference 2009-10, NITK, Surathkal, July-Aug. 2010.

**Dr. Vineet Sahula**

- Member, Board of Studies, Banasthali University (Women's university), Banasthali
- Member, Board of studies, SGSITS, Indore
- Member, Board of studies (Engg.), Jayoti Vidyapeeth (Women's university), Jaipur
- Member of faculty group who visited North Dakota State University, Fargo for academic & research collaboration, 23<sup>rd</sup> -27<sup>th</sup> March 2009
- Member, Technical programme committee
  1. IEEE VLSI Design & Test Symposiums, Aug. 2009
  2. DATICS conferences 2010

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Dr. G. S. Dangayach**

**Editorship**

- Recently appointed Guest Editor of International Journal "Production Planning & Control"
- Guest Editor of International Journal of Manufacturing Technology & Management (IJMTM) for Special Issue on "Manufacturing Strategy"
- Guest Editor of International Journal of Business Performance Management (IJBPM) for Special Issue on "Manufacturing Strategy"
- Editor of Journal of Entrepreneurship
- Edited Proceeding of All India Seminar on "New Vistas in Manufacturing"

**Reviewer**

Reviewer of Fifteen International Journals

- International Journal of Operations and Production Management (IJOPM)
- Journal of Management Studies (JMS)
- International Journal of Production Economics (IJPE)
- West Indian Journal of Engineering (WIJE)
- Journal of Manufacturing Technology Management (JMTM)
- International Journal of Manufacturing Technology and Management (IJMTM)
- International Journal of Business Performance and Management (IJBPM)
- Technology Analysis and Strategic Management
- Information Sciences

- Management Research News (MRN)
- International Journal of Simulation and Process Modelling (IJSPM)
- International Journal of Globalization and Small Business (IJGSB)
- International Journal of Product Development (IJPD)

## **DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING**

1. **Prof. P.R. Soni**, Chaired one Technical session at “International Conference & exhibition on powder metallurgy & 36<sup>th</sup> Annual meetings”, PM-10 held at Rajputana Sareton Hotel, Jaipur on 28<sup>th</sup> Feb. 2010.
2. **Dr. N.C. Upadhyay**, received Shikha Rattan Puruskar and Certificate of excellence from Indian International Friendship Society for Meritius Service, outstanding performance and remarkable role, contributions in Metallurgical & Materials Engg., during the seminar on role of education in modern India on 7-1-2010 at India Habitat Centre, New Delhi.

## **DEPARTMENT OF MANAGEMENT STUDIES**

- Dr. Awadhjesh Bhardwaj appointed as Member on the panel of Technical Training and Interaction of CII.
- Dr. Awadhjesh Bhardwaj appointed as Member Expert Committee, National Science and Technology Entrepreneurship Development Board, DST, Govt. of India.
- Dr. Awadhesh Bhardwaj appointed Member ED Cell Advisory Committee, Govt. Women Engg. College Ajmer

## **EDC**

- Dr. Awadhesh Bhardwaj, Coordinator appointed as Member on the panel of Technical Training and Interaction of Confederation of Indian Industry.
- Dr. Awadhjesh Bhardwaj, Coordinator appointed as Member Expert Committee, National Science and Technology Entrepreneurship Development Board, DST, Govt. of India.
- Dr. Awadhjesh Bhardwaj chaired one session in International Conference on Technology, Education and development at Valencia Spain.
- ED Cell MNIT became the member of NEN network

# **11.9 RESEARCH PAPERS AND PUBLICATIONS**

## **DEPARTMENT OF ARCHITECTURE**

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

1. Pandit Kalpana, “Futuristic Architecture”, 25<sup>th</sup> March 2010, Department of Architecture, in National Seminar on New Trends in Architecture and Structure at MBM Engineering College, JNV University Jodhpur

2. Shringi Rajeev, “Integrated Development on National Highways” , Institution of Engineers Jaipur on 18<sup>th</sup> April 2010
3. Shringi Rajeev, ‘Noise Reduction in Buildings’, on 3<sup>rd</sup> April 2010, VIT Jaipur

**Any Other Information:**

- The Department of Architecture was awarded a Special Award for third highest entries for Birla Yuva Ratna Design competitions 2010. Two students got prizes upto zonal level for their Designs.
- Inspection of department was done by B O G members of the institute on 28<sup>th</sup> June 2009.
- Expert committee nominated by Council of Architecture inspected the department on 21<sup>st</sup> and 22<sup>nd</sup> April 2009 for the recognition of B.Arch course for academic session 2009-2010 and onwards. Dr Monsingh D Devadas , Dean ,School of Planning and Architecture, Anna University, Chennai and Dr Vijay Kishore, Principal , School of Planning and Architecture ,JNAFAU, Hyderabad visited the department. The approval of recognition of B.Arch course was granted by Council of Architecture for three years from academic session 2009-2010 onwards.
- An architectural tour was done to Chandigarh and various salient aspects of the city were documented by the students of III year. They documented Secretariat, Sector 17, CCA, High Court complex, Museum and other buildings.
- Measured Drawing was done on Chittorgarh and Jaigarh fort complex for the study of vernacular architecture.
- Vidhyadhar ji ka bhag , Amer ,Jantar mantar , Govind Ji temple , Badi chaupar, Hawa mahal, Sanganeri gate, Jauhari bazaar and Jaleb Chowk were documented in various groups to study various aspects of traditional styles and vernacular architecture of Jaipur city by NDSU and MNIT students.
- In the Zonal NASA convention held at Jammu, Department of Architecture got first prize for its outstanding performance in the overall events.
- Students of the department organized 3 days techno cultural fest in the department with joint venture of national level techfest NEURON and Blichslag.

**Interaction with the Students and Faculty Members of Department of Architecture and Landscape Architecture, NDSU, Fargo, USA**

With reference to general agreement on academic exchanges between North Dakota State University, Fargo, USA and Malaviya National Institute of Technology Jaipur, a MOU was signed between Department of Architecture and Landscape Architecture, NDSU and Department of Architecture, MNIT. Under this agreement 15 students and 2 faculty members of Department of Architecture and Landscape Architecture, NDSU came for academic interaction with the students and faculty of Department of Architecture, MNIT Jaipur. Prof Mike Christenson and Prof David Crutchfield accompanied these students in succession from 15<sup>th</sup> January 2010 to 20<sup>th</sup> April 2010. During their stay, the classes were held for the subjects ARCH727 Vernacular Traditions, ARCH 472 Community Design Studio and ARCH 722 Urbanism Seminar. The above courses were jointly taught by faculty members of Department of Architecture MNIT and faculty members

from NDSU. The thrust area of study in above courses was vernacular architectural traditions and planning principles of walled city of Jaipur. To explore the contemporary architecture of India they visited Delhi, Agra, Chandigarh, Ahmadabad and Pondicherry and documented their studies. Prof Mike Christenson delivered lecture in YAF held at JKK organized by IAA Rajasthan Chapter.

### **List of Special lectures / Seminars Presented:**

Faculty members of department delivered special lectures in courses under NPCBAERM, sponsored by NIDM, Govt of India . for details refer to annexure I

1. Shringi Rajeev, “Architectural design incorporating salient features with respect to earthquake resistance for Civil Engineers ” on 27<sup>th</sup> June 2009, MNIT Jaipur
2. Pandit Kalpana, “ Building safety from Natural Hazards: an Introduction”, on 13<sup>th</sup> July 2009, MNIT Jaipur
3. Pipralia Satish, “Elementary Seismology”, on 13<sup>th</sup> July 2009, MNIT Jaipur
4. Varshney Meenu, “Performance of ground in past earthquakes” , on 13<sup>th</sup> July 2009, MNIT Jaipur
5. Shringi Rajeev, “Site planning & bldg. form for Earthquake resistance”, on 14<sup>th</sup> July 2009, MNIT Jaipur
6. Pandit Kalpana, “EQ Resistant bldg. form & architectural design” , on 15<sup>th</sup> July 2009, MNIT Jaipur
7. Varshney Meenu, “Earthquake resistant construction details” on 15<sup>th</sup> and 16<sup>th</sup> July 2009, MNIT Jaipur
8. Ranjan Alok, “Construction Quality Control” on 16<sup>th</sup> July 2009, MNIT Jaipur
9. Shringi Rajeev, “ Techno Legal Aspects in building Projects” on 17<sup>th</sup> July 2009, MNIT Jaipur
10. Ranjan Alok, “Repair, restoration & retrofitting” on 17<sup>th</sup> July 2009, MNIT Jaipur
11. Pipralia Satish, “ Techno Financial Aspects” on 17<sup>th</sup> July 2009
12. Pandit Kalpana, “ Building safety from Natural Hazards: an Introduction”, on 22<sup>nd</sup> March 2010
13. Varshney Meenu, “Elementary Seismology”, on 22<sup>nd</sup> March 2010, MNIT Jaipur
14. Pandit Kalpana, “Performance of ground in past earthquakes” , on 22<sup>nd</sup> March 2010, MNIT Jaipur
15. Shringi Rajeev, “Site planning & bldg. form for Earthquake resistance”, on 23<sup>rd</sup> March 2010, MNIT Jaipur
16. Pandit Kalpana, “EQ Resistant bldg. form & architectural design” , on 23<sup>rd</sup> March 2010, MNIT Jaipur
17. Varshney Meenu, “Earthquake resistant construction details” on 24<sup>th</sup> and 25<sup>th</sup> March 2010, MNIT Jaipur
18. Ranjan Alok, “Construction Quality Control” on 25<sup>th</sup> March 2010, MNIT Jaipur
19. Shringi Rajeev, “ Techno Legal Aspects in building Projects” on 26<sup>th</sup> March 2010, MNIT Jaipur
20. Ranjan Alok, “Repair, restoration & retrofitting” on 27<sup>th</sup> March 2010, MNIT Jaipur
21. Chandra Tarush, “ Techno Financial Aspects” on 27<sup>th</sup> March 2010, MNIT Jaipur

## DEPARTMENT OF CHEMICAL ENGINEERING

### Research Papers Published In International Journals:

- 1) 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.
- 2) Suja George, Prabhat Pandit, A.B. Gupta, “Modeling and Simulation studies for Aluminium - Fluoride Interactions in Nalgonda Defluoridation Process”*Journal of Chemical Product and Process Modeling*, Volume 4, Issue 1, 2009 Article 27.
- 3) Beeyani, A. K., Singh, K., Vyas, R.K., Kumar Shashi, and Kumar, Surendra “Parametric Studies and Simulation of PSA Process for Oxygen Production from Air,” *Polish J. Chem. Tech.* **12** (2), pp. 18-28, 2010, **ISSN:** 1509-8117, 1899-4741.
- 4) Pachauri, P., Falwariya, R., Vyas, Sangeeta, Maheshwari, Monika, Vyas, R. K., and Gupta, A.B., “Removal of Amoxicillin in wastewater by using Adsorption by Powdered and Granular Activated Carbon and Oxidation using H<sub>2</sub>O<sub>2</sub>,” *Nature, Environment & Pollution Technology*, **8**(3), pp. 481-488, 2009. **ISSN:** 0972-6268.

### Research Papers Published In National Journals:

1. Aditi Sharma, S. P. Chaurasia, Madhu Agarwal and A. B. Gupta “Arsenic Removal from Drinking water by Adsorption on activated alumina”, *Indian Journal of Environmental Protection*, Vol. 29 (11), 2009.
2. M. Agarwal, Isha Arya, S. P. Chaurasia , K. Singh and S. George, “Synthesis and Characterization of Biodiesel”, *Indian Chemical Engineer*, Vol. 51(4), 2009.
3. Madhu Agarwal, Garima Chauhan, Ashok Yadav, Kailash Singh & S. P. Chaurasia , “Optimization of Process Parameters for Biodiesel Production from Jatropha Oil”, *Journal of Lipid Science and Technology*, April-June 2009.
4. Rohini Gupta , D. Goswami and S. P. Chaurasia, “ Ultrafiltration- a Reliable Pre-treatment Process for Reverse Osmosis Desalination” **accepted for publication in *Indian Journal of Environmental Protection*.**

### List of Papers Presented At International Conferences

1. Anjali Jain, Kriti Bhandari and S. P. Chaurasia, “*Rhizopus oryzae* Lipase Catalysed Esterification of Oleic Acid with Butanol in a Biphasic System”, International Conference on Oils, Fats, Fuels and Surfactants (ICOFFS) Proceedings, New Delhi, India, Dec.2009.
2. Ravi Dhabhai, Anjali Jain, Meena Krishania and S. P. Chaurasia, “ Effect of Delignification of Lignocellulosic Substrates on Saccharification with *Trichoderma reesei* Cellulase”, International Conference on Oils, Fats, Fuels and Surfactants (ICOFFS) Proceedings, New Delhi, India, Dec.2009.

### List of Papers Presented At National Conferences

1. Kumar, A., Singh, K., Agarwal, M., Saakshy, Sharma, A.K., Hussain, “ Color removal of effluent of Sanganer region of Jaipur”, International Conference on Emerging Technologies in Environmental Science and Engineering, Aligarh Muslim University, Aligarh, India, October 26-28, **2009**.
2. 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**.
3. 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**.
4. Jana, S. K., Arya, I. and Khandelwal, M., Studies on the Performances of Bubble Column and Foam-bed Slurry Reactors for Carbonation of Hydrated Lime Using Lean Carbon-dioxide Gas, *CHEMCON 2009*, Andhra University, Visakhapatnam, Dec. 27-30, **2009**, pp. 207-208.
5. Suja George, Prabhat Pandit, A.B.Gupta, “Application of mathematical model NALD for Nalgonda process of Defluoridation”, International Symposium on Environmental Pollution, ecology and Human health, ISEPEHH-2009, Tirupati, 25<sup>th</sup>-27<sup>th</sup> July, **2009**.
6. Kriti Bhandari, Anjali Jain, Alok Gupta and S. P. Chaurasia, “Enzymatic Esterification of Oleic Acid with Lauryl Alcohol”, *CHEMCON Proceedings*, Vishakhapatnam, India, Dec.**2009**.
7. Aditi Sharma, Kriti Bhandari and S. P. Chaurasia, “Synthesis of DHA Rich PUFA from Cod Liver Fish Oil”, *CHEMCON-09 Proceedings*, Vishakhapatnam, India, Dec.**2009**.
8. Kriti Bhandari, Alok Gupta and S. P. Chaurasia, “Synthesis of Docosahexaenoic Acid Rich Triglyceride from Fish Oil”, National Symposium on Emerging Trends and opportunities in Basic and Applied Sciences, Poddar International College, Jaipur, India, Jan. **2010**.
9. Anjali Jain, Ravi Dhabhai and S. P. Chaurasia, “Lignocellulose to Bioethanol”, National Symposium on Emerging Trends and opportunities in Basic and Applied Sciences, Poddar International College, Jaipur, India, Jan. **2010**.
10. Bhatt, Parul, Pandit, P. and Vyas, R. K., “Removal Technologies for Textile Dyes from Wastewater: A Review,” Accepted for Presentation at Conference on Advances in Chemical Engineering 2009 (AChemE 2009) Organised by Department of Chemical Engineering, Thapar University, Patiala during February 27-28, **2009**, Macmillan, New Delhi, pp. 109-115.

### Books Published

S. No.	Title	Author (s)	Publisher
1.	Environmental Engineering & Disaster Management 3 <sup>rd</sup> Edition Year: 2010 ISBN: 978-81-88870-39-4	R. K. Vyas, Sunita Goyal, Sangeeta Vyas, and Gaytri Sharma	Genius Publications (India), Jaipur.

### DEPARTMENT OF CHEMISTRY

#### Research Papers Published In International Journals:

- 1) Joshi J., Joshi Bidya S.,(Late) Joshi B.C.” Triazolo Derivatives of Dibenzodiazepines as Potential C.N.S. Active Drug”, Heterocyclic Communications, Vol 2, 2009, pp141-145.
- 2) Gupta, R., Sharma, D. and Verma, P.S., ‘Indium Trichloride-Catalyzed Synthesis of Some Novel 2,2’-(N,N’-Diarylamino)-4,4’-diaryl-5,5’-arylidenebisthiazoles and Their Insecticidal Activity, Heteroatom Chemistry, Vol 20, No 4, 2009, pp. 224-231.
- 3) Gupta, R., Gupta, N. and Jain A., ‘Eco-friendly Synthesis and Insecticidal Activity of Some Fluorinated 2-(N-Arylamino)-4-arylthiazoles, Phosphorus, Sulfur, and Silicon and the Related Elements, 2009, Accepted.

#### Research Papers Published In National Journals:

- 1) Gupta, R., Gupta, N. and Jain A., Improved Synthesis of Chalcones and Pyrazolines and Ultrasonic Irradiation, Indian Journal of Chemistry, Section B, 2010, pp. 351-355.

#### List of Papers Presented At International Conferences

- 1) R. Saharan, J. Joshi, P.S. Verma and I.K. Sharma, A green method for the bioreduction of substituted cyclic ketones, At International conference on green technology for greener environment, 27-30<sup>th</sup> January, 2010, Ch. Charan Singh University, Meerut (UP), India

#### List of Papers Presented At National Conferences

- 1) R. Saharan, J. Joshi, P.S. Verma and I.K. Sharma, Ecofriendly method for the bioreduction of cyclic ketones, National Conference on “Green and Sustainable Chemistry”, BITS, Pilani, Rajasthan, 19<sup>th</sup> to 21<sup>st</sup> Feb, 2010
- 2) M.D. Tiwari & Jyoti Joshi, Study of ground water quality for irrigation in Sanganer Tehsil of Jaipur District (Rajasthan), India, National Symposium on New Frontiers in Chemical Sciences (NFCS-10), Department of Chemistry, University of Rajasthan, Jaipur, February 25, 2010.
- 3) R.Gupta, A. Jain, Y. Madan, N. Agarwal, Eco friendly synthesis of 5-indolylpyrimido[4,5-d]pyrimidines, National Conference of Green and Sustainable Chemistry, held at BITS, Pilani. 19-21 Feb., 2010, pp 7.
- 4) Abhishek Gupta, Anju Sharma, Dr. Mukesh Jain and Dr. B.S. Joshi, Metal  $\mu$ -Oxoisopropoxide Precursor For Synthesis Of Nano-Oxide, National Symposium on New Frontiers in Chemical Sciences (NFCS-10), Department of Chemistry, University of Rajasthan, Jaipur, February 25, 2010

### Books Published

S. No.	Title	Author	Publisher
1.	C-13 NMR of heterocyclic compounds	Dr. Mukesh Jain	Landolt Bornstein, Springer Verlag, Germany
2	Proton NMR of heterocyclic compounds	Dr. Mukesh Jain	Landolt Bornstein, Springer Verlag, Germany

### DEPARTMENT OF CIVIL ENGINEERING

#### Research Papers Published In International Journals:

- 5) Suja George, Prabhat Pandit, A.B. Gupta and Madhu Agarwal. Modeling and Simulation studies for Aluminium - Fluoride Interactions in Nalgonda Defluoridation Process, Chemical Product and Process Modeling, 4(1), 2009.
- 6) Sheetal Agarwal, B.L. Swami and A.B. Gupta, Development of Noise Prediction Model under Interrupted Traffic Flow Conditions-a case study for Jaipur city, Noise and Health, UK, Oct-Dec, 11, 189-193, 2009.
- 7) Aditi Sharma, S. P. Chaurasia, Madhu Agarwal and A. B. Gupta. Arsenic removal from Drinking Water by adsorption on activated alumina. IJEP 29(11), 937-944, 2009.
- 8) Mathur, Y.P., Sharma, Gunwant and Pawde, A.W. (2009). "Optimal Operation Scheduling of Irrigation Canals Using Genetic Algorithm", International Journal of Recent Trends in Engineering, Issue 1, Vol. 1, May, 2009 pp. 11-15.
- 9) Khwairakpam, M., Bhargava, R., "Vermitechnology for sewage sludge recycling", Journal of Hazardous materials, Vol. 161 No.2/3, 2009, pp. 948-954.
- 10) Khwairakpam, M., Bhargava, R., "Bioconversion of filter mud using vermicomposting employing two exotic and one local earthworm species", Bioresource Technology, Vol. 100 No. 23, 2009, pp. 5846-5852.
- 11) Kalamdhad, A.S., Ali, M., Singh, Y.K., Khwairakpam, M., Kazmi, A.A., "Rotary drum composting of vegetable waste and tree leaves", Bioresource Technology, Vol. 100 No. 24, 2009, pp. 6442-6450.
- 12) Kalamdhad, A.S., Ali, M., Khwairakpam, M., Kazmi, A.A., "Organic matter transformation during rotary drum composting" Dynamic Soil & Dynamic Plants, Vol. 3 No. SI1, 2009, pp. 93-98.
- 13) Santosh Pingale, Deepak Khare, H. C. Sharma & Mahesh K Jat (2009) "Design of Water Harvesting Structure based on Supply and Demand of Water in a Hilly Watershed". Journal of Environmental Research and Development, Vol. 3, No. 3, 645-653.
- 14) Jat, Mahesh Kumar, Khare, D., and Garg, P. K., (2009), Degradation of watershed health due to urbanisation: a remote sensing and GIS based assessment, Urban Water Journal, Volume 6, Issue 3, 251-263

#### Research Papers Published In National Journals:

1. K. Shandilya Kaushik, Mukesh Khare and A.B. Gupta. Defining aerosols by physical and chemical characteristics, Indian Journal of Air Pollution Control, Vol IX, No. 1, pp. 107-126, March, 2009.
2. Sunil K. Gupta, R.C. Gupta, and A.B. Gupta, Is There a Need of Extra Fluoride in Children? INDIAN PEDIATRICS, 46, pp. 755-759, 2009.

3. J.K. Bassin, M.R. Sharma, and A.B. Gupta, Water quality modelling of rivers in hilly region, *ISH J Hydraulic Engineering*, 15(3), pp. 1-10, 2009.
4. M. Bhaduri, R. Goyal and A. B. Gupta, Ground water quality in Sanganer area of Rajasthan, *ISH J Hydraulic Engineering*, 15(3), pp. 65-74, 2009.
5. Kushwaha, R.K., Pandit, M.K. and Goyal, Rohit (2009), "MODFLOW Based Groundwater Resource Evaluation and Prediction in Mendha Sub-Basin, NE Rajasthan", *J. Geological Society of India*, Vol.74, October, pp. 449-458.
6. Anurag Misra, C.B. Mathur, Pawan Kalla & Govind Sahay Meena, "Strength and Absorption Studies on Concrete Containing Wollastonite", *IRC Vol.37 (3) Indian Highways*, pp. 33-38 2009.

#### **List of Papers Presented At International Conferences**

1. Suja George, Prabhat Pandit and A.B. Gupta. Application of mathematical model NALD for Nalgonda process of defluoridation, International symposium on Environmental Pollution, Ecology and Human Health ISEPEHH 2009, July 25-27, 2009. The paper of presented by me and its abstract has been published in the proceedings.
2. A. B. Gupta. Delivered an invited talk titled "Pollution from Automobiles and human health with special emphasis on PM" at the International Workshop on "Advances in Combustion and Transportation", IIT Kanpur, Jan 10-12, 2010.
3. A.B. Gupta, J.K. Bassin, M. R. Sharma, "Some Issues Concerning Water Quality Modelling of Lower Himalayan Rivers", ETWMT-09L Indo-Italian conference on Emerging trends in waste management technologies, MIT College of Engineering, Pune, Dec. 3-4, 09, pg. 77-82.
4. A. B. Gupta. Delivered an invited talk titled "Presence of fluorides and nitrates in drinking water and human health – a case study of Rajasthan", at the International Conference on Environmental Health and Technology, March 15-17, 2010, IIT Kanpur.
5. Anurag Yadav, Gaurav Singh, Nishant Sharma, Saurav Chakraborty, N Kaul and A B Gupta INDOOR AIR QUALITY USING BIOMASS FUELS AND ITS IMPACT ON HUMAN RESPIRATORY HEALTH – A CASE STUDY, displayed in the poster session at the International Conference on Environmental Health and Technology, March 15-17, 2010, IIT Kanpur.
6. Khandelwal, S. and Goyal, Rohit (2010). "Analysis of Land Surface Temperature Variations due to Fire at Oil Terminal, Jaipur, India", 30<sup>th</sup> EARSeL Symposium "Remote Sensing for Science, Education and Natural and Cultural Heritage", Paris, France, 31<sup>st</sup> May – 3<sup>rd</sup> June.
7. Khandelwal, S. and Goyal, Rohit (2010). "Effect of Vegetation and Urbanization over Land Surface Temperature: Case Study of Jaipur City", 30<sup>th</sup> EARSeL Symposium "Remote Sensing for Science, Education and Natural and Cultural Heritage", Paris, France, 31<sup>st</sup> May – 3<sup>rd</sup> June.
8. Khandelwal, S., Goyal, Rohit and Kaul, N. (2010). "Study of Seasonal and Spatial pattern of Urban Heat Island of Jaipur City and its Relationship with Enhanced Vegetation Index", International Conference Map India 2010, Jan. 19-21.
9. Goyal, Rohit, Khandelwal, S. and Kaul, N. (2010). "Study on Effect of Land Use and Elevation over Land Surface Temperature", International Conference Map India 2010, Jan. 19-21.
10. Santosh M Pingale, Mahesh K Jat and Deepak Khare (2009) "Perspective of Urban Water Demand Management in Changing Climate" Proceeding of Seminar on Integrated Water Resources Management: Demand Assessment and Management organized by Water

Resource Department, Bureau of Indian Standard (BIS), New Delhi, March 20, 2009, pp16-26.

#### List of Papers Presented At National Conferences

- 1 A. B. Gupta, Energy analysis of sewage treatment plants and its relation to process performance- How much to conserve?, ISTE Faculty convention and National Conference on “Energy & Environment Conservation: Challenges and opportunities & Solutions”, December 5-6, 2009, JEC Kukas, Jaipur.
- 2 Payal Pancholi, Shilpi Sharma, Rahul Sharma, R. Chaudhary and A. B. Gupta. Analysis of process performance, microbiological composition and energy consumption at 62.5 MLD STP, Delawas, Jaipur. Presented by Payal at Indian Science Congress, Indore Dec 2009. Received the best paper award.
- 3 Ajendra, Kailash Singh, A.B Gupta, Saakshy, A. K Sharma & G. Hussain. Optimization of Color Removal of Effluent of Handmade Paper Unit by Ozonation Method, Proc 97th Indian Science Congress, Thiruvananthapuram January 3-7, 2010.
- 4 A. B. Gupta. Make noise but silently. Presented at all India seminar of environmental engineers on “Noise Pollution” organized jointly by IE(I) and VIT, Jaipur, March 6-7, 2010.
- 5 Dheeraj Bhatt, A. B. Gupta, “Application and modification of FHWA model for noise prediction”, Presented by the co-author at all India seminar of environmental engineers on “Noise Pollution” organized jointly by IE(I) and VIT, Jaipur, March 6-7, 2010.
- 6 Singhal, Vijai, Agarwal, P. and Goyal, Rohit (2010), “Development of Conceptual Ground Water Flow Model of Pali Area”, National Seminar on Water Auditing, University of Rajasthan, Jaipur, India, 18<sup>th</sup> to 20<sup>th</sup> May.
- 7 Goyal, Rohit, Kongre D.N. and Singhal, Vijai (2010). “Estimation of Recharge Factors of Different Landuse-Landcover Categories”, National Workshop on Dugwell Recharge: Efficiency and Efficacy, CGWB, Jaipur, March 18<sup>th</sup>.
- 8 Singhal, Vijai, Kongre D.N. and Goyal, Rohit (2009). “Estimating Spatial Variation in Recharge/Extraction Using GIS: Case Study of Bandi River in District Pali”, National Seminar on Changing Geohydrological Scenario and it’s Environmental Impact, Geological Society of India, Bhikampura, Alwar, 6<sup>th</sup>-8<sup>th</sup> July.
- 9 Gahlot V K, Swami B L and Kalla P “BRTS: A Sustainable Transportation System, Nov.20-21, 2009”, National Conference on Energy Management, NCEM-09, Engineering College Bikaner, Bikaner 2009.
- 10 Mishra, A., Kalla, P., Gahlot, V. K., “Properties of Concrete Containing Wollastonite”, Nov.20-21, 2009, National Conference on Energy Management , NCEM-09, Engineering College Bikaner, 2009.

#### Books Published

S. No.	Title	Authors	Publisher
1	Integrated water resource management	Hemant Joshi, A.B. Gupta, Anil Kumar and Mridul Ratnu	CCDU, State Water and Sanitation Mission, IHMR, Rajasthan
2.	High rate composting of Institutional organic wastes	Kalamdhad, A.S., Singh, Y.K., Ali, M., Khwairakpam, M., Kazmi, A.A.	Allied publishers, India

**Any Other Information:**

1. Prof. Rohit Goyal is Member, State Level Expert Appraisal Committee (SEAC) for Rajasthan State, Gazette Notification No. S.O. 1887(E) dated 30<sup>th</sup> July 2008, Government of India.
2. Prof. Rohit Goyal was Nodal Officer, Civil Works, TEQIP. Many refurbishment activities were completed during the year 2009-10 like refurbishment of toilets, labs etc.
3. Prof. Rohit Goyal delivered expert talk on “Groundwater Flow Modelling and the Role of GIS” in training course on “Application of Remote Sensing & GIS in Integrated Ground Water Resource Management” organized by RRSSC, Dept. of Space, Jodhpur from 29<sup>th</sup> March-4<sup>th</sup> April 2010.
4. Prof. Rohit Goyal chaired a session in All India Seminar of Environmental Engineers on “Noise Pollution”, organized by VIT Campus & Institution of Engineers (India) at VIT, Jaipur, 6-7<sup>th</sup> March 2010.
5. Prof. Rohit Goyal visited North Dakota State University (NDSU), Fargo, ND, USA to evolve further research collaboration, development of courses, laboratory strengthening and curriculum development from 23<sup>rd</sup> to 27<sup>th</sup> March 2009.

**DEPARTMENT OF COMPUTER ENGINEERING****Research Papers Published in International Journals:**

1. Krishan Kumar Paliwal, Jinesh Shaji George, Navaneeth Rameshan, Vijay Laxmi, M.S.Gaur, Vijay Janyani, and R.Narasimhan. “Implementation of QoS Aware Q-Routing Algorithm for Network-on-Chip”, Published by Springer, "Communications in Computer and Information Science" ISSN: 1865-0929, vol 40, pp:370-380.

**Paper Published in National and International Conferences**

1. Vinod P., V.Laxmi , M.S.Gaur, G.V.S.S.Phani Kumar, Y.S.Chundawat . “Static CFG Analyzer for Metamorphic Malware Code ”, International Conference on Security of Information and Networks (SIN 2009), Gazimagusa, North Cyprus, Turkey, October 6-10, 2009.
2. Vijay Laxmi, Mudassar N Khan, S Sarath, Manoj S Gaur. “Buyer Seller Watermarking Protocol for Digital Rights Management”, International Conference on Security of Information and Networks (SIN 2009), Gazimagusa, North Cyprus, Turkey, October 6-10, 2009.
3. S Sarath, Mudassar N Khan, Vijay Laxmi, Manoj S Gaur, Soumya Sharma. “Modified Buyer Seller Watermarking Protocol”, Indo-US Joint Conference and Workshop on Cyber Security Cyber Crime and Cyber Forensics (ICSCF'09), Kochi, August 19-21, 2009.
4. Vinod P., V.Laxmi, M.S.Gaur, GVSS.Phani Kumar , Y.S.Chundawat. “Metamorphic Virus Detections through Static Code Analysis ”, Indo-US Joint Conference and Workshop on Cyber Security Cyber Crime and Cyber Forensics (ICSCF'09), Kochi, August 19-21, 2009.

5. V. Singh, M.S.Gaur et. al. "An Even-Odd DFD Technique for Scan Chain Diagnosis" IEEE WRTL, November, 2009, Hong Kong, PRC.
6. Jyoti Grover, Deepak Kumar, Sargurunathan M, M.S.Gaur, V.Laxmi. "Performance Evaluation and Detection of Sybil Attacks in Vehicular Ad-Hoc Networks", First International Workshop on Trust Management in P2P Systems (IWTMP2PS 2010), Chennai, India, 23-25 July 2010.
7. Navaneeth Rameshan, Mushtaq Ahmed, M.S.Gaur, Vijay Laxmi and Anurag Biyani. "QoS Aware Minimally Adaptive X-Y routing for NoC", International Conference on Advanced Computing and Communications (ADCOM 2009), Indian Institute of Science, Bangalore, 14 -17 Dec. 2009.
8. Naveen Choudhary, M.S. Gaur, V. Laxmi and Virendra Singh. "Designing Application Specific Irregular Topology for Network-on-Chip", International Conference on Advanced Computing and Communications (ADCOM 2009), Indian Institute of Science, Bangalore, 14 -17 December 2009.
9. Krishan Kumar Paliwal, Jinesh Shaji George, Navaneeth Rameshan, Vijay Laxmi, M.S.Gaur, Vijay Janyani, and R.Narasimhan. "Implementation of QoS Aware Q-Routing Algorithm for Network-on-Chip", Published by Springer, "Communications in Computer and Information Science" ISSN: 1865-0929, vol 40, pp:370-380.
10. Navaneeth Rameshan., M.Ahmed, M.S.Gaur, V. Laxmi, Krishan Kumar Paliwal. "Minimal path, Fault Tolerant, QoS aware Routing in 2-D Mesh NoC", IEEE International Workshop on Reliability Aware System Design and Test (RASDAT 2010).
11. Lalith Suresh P. , Navaneeth Rameshan , Ashwin Narayan , Mark Zwolinski , M.S.Gaur , V. Laxmi , Virendra Singh. "EDA Design Flow Acceleration using GPGPUs", DATE 2010, March 8-12, 2010, Dresden, Germany (Friday workshop on Designing for Embedded Parallel Computing Platforms: Architectures, Design tools and Applications)
12. M. S. Gaur , B. M. Al-Hashimi , V. Laxmi , Navaneeth R. , Naveen Choudhary, L. Jain , M. Ahmed , K. K. Paliwal , Varsha , Rekha , Vineetha , Roopesh , Pankaj , Prateek "NIRGAM: NoC Interconnect Routing & Applications' Modelling simulator", DATE 2010, March 8-12, 2010, Dresden, Germany (Tuesday workshop - System Analysis, Simulation and verification).
13. Navaneeth Rameshan, Mushtaq Ahmed, M.S.Gaur, and V. Laxmi "Minimal path, Fault Tolerant Routing in 2-D Mesh NoC", VDAT2010, the 14th IEEE VLSI Design And Test Symposium, Chandigarh, India.
14. 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.
15. Naveen Choudhary, MS Gaur, V. Laxmi, Virendra Singh. "Fast Energy Aware Application Specific Network On Chip Topology Generator", IEEE 2nd International Advance Computing Conference (IACC 2010) to be held on 19-20th February, 2010 at Thapar University, Patiala.

16. Renu Kumawat, MS Gaur, V Sahula, V. Laxmi. Modeling and Reliability Evaluation of logic Circuits at Nanoscale, IEEE International Workshop on Reliability Aware System Design and Test (RASDAT), Bangalore, India, January 7-8, 2010.
17. 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.

### List of Papers Presented at National Conferences

1. Rajbir Kaur, M.S.Gaur, Lalith Suresh and V. Laxmi. “Attacks in Destination Sequence Distance Vector (DSDV) Routing Protocol”, National Conference on New Advances in Core Computing and Their Challenges, Jodhpur.
2. Lalith Suresh P., Navaneeth Rameshan, Ashwin Narayan, M.S.Gaur, V.Laxmi. “Emerging EDA Applications in GPGPU’s and Multi-Core Architectures”, IBM-India Research Labs Collaborative Academia Research Exchange (I-CARE), October 2009.
3. Reena Gunjan, MS Gaur. “Trusted Buyer Seller protocol for Digital Watermarking” in National Conference on “Emerging Technologies and Applications” organized by Baldev Ram Mirdha Institute of Technology, Jaipur on February 6, 2010.
4. Reena Gunjan, MS Gaur. “A Taxonomy for Digital Watermarking”, UGC National Conference on New Advances in Core Computing and their Challenges" organized by M.B.M. Engineering College, J. N. V. University, Jodhpur on March 20, 2010.
5. Vinod P., V. Laxmi and M.S.Gaur. “Malware Detection using Datamining Methods”, UGC National Conference on New Advances in Core Computing and Their Challenges (NACTTC2010), Jodhpur, 20-21 March 2010.
6. Roopali Goyal, Sakshi Vijay, V.Laxmi, M. S. Gaur. “Difference Analysis of LSB Steganographic Images”, , UGC National Conference on New Advances in Core Computing and Their Challenges (NACTTC2010), Jodhpur, 20-21 March 2010.
7. Preety Singh. "Audio-visual Speech Recognition using Hidden Markov Models", New Advances in Core Computing and their Challenges, MBM Engineering College, Jodhpur, 20-21 Mar. 2010.
8. Naveen Choudhary, MS Gaur, Vijay Laxmi. “Conjoined Irregular Topology and Routing Table Generation for Network-on-Chip”, INDICON 2009, DA-IICT, Gandhinagar, 18-20 Dec, 2009.

### Books/Book Chapters Published

S. No	Title	Author	Publisher
1.	“Sybil Attack in VANET: Detection and Prevention”, Book Chapter: "Security of Self-Organizing Networks: MANET, WSN, WMN,	Jyoti Grover, M.S.Gaur, V.Laxmi	Auerbach Publications, CRC Press, Taylor &

	VANET”		Francis Group, USA
2.	“Metamorphic Malware Analysis and Detection Methods”, Book Chapter in “Cyber Security, Cyber crime, Cyber Forensics: Applications and Perspective”	Vinod P., V. Laxmi M.S.Gaur	IGI Global
3.	“DoS Attacks in MANETs: Detection and Countermeasures”, Book Chapter in IGI Global edited Volume on “Cyber Security, Cyber crime, Cyber Forensics: Applications and Perspective”	Rajbir Kaur, M.S.Gaur, Lalith Suresh and V. Laxmi	IGI Global

## DEPARTMENT OF ELECTRICAL ENGINEERING

### Research Papers Published In International Journals:

1. Rohit Bhakar, N.P. Padhy, H.O. Gupta, “Network Pricing in India: Policies and Practices,” to be published in *Energy Sources, Part B: Economics, Planning, and Policy*, Taylor and Francis.
2. Rohit Bhakar, V.S. Sriram, N.P. Padhy, H.O. Gupta, “Probabilistic game approaches for network cost allocation,” *IEEE Transactions on Power Systems*, vol. 25, no. 1, pp. 51-58, Feb. 2010.
3. Rohit Bhakar, V.S. Sriram, N.P. Padhy, H.O. Gupta, “Game solutions for distribution network cost allocation,” *International Journal of Distributed Energy Resources*, vol. 5, no. 4, Oct. 2009, pp. 257-267, Technology and Science Publishers, Germany.
4. Rohit Bhakar, V.S. Sriram, N.P. Padhy, H.O. Gupta, “Transmission embedded cost allocation in restructured environment: A game-theoretic approach,” *Electric Power Components and Systems*, Taylor and Francis, vol. 37, no. 9, pp. 970-981, Sept. 2009.
5. Lata Gidwani, H.P. Tiwari, Rajesh Kumar “Wind Energy Integration in Electrical Power Grid: Simulation of Transient Fault Behavior and Analysis” *Journal Electrical Engineering*, ISSN 1582-4594, Volume 9, Page-77-84. Edition: 3, 2009.
6. Sunil Kumar Gupta, H.P. Tiwari, Ramesh Pachar, “Estimation of DC Voltage Storage Requirements for Dynamic Voltage Compensation on Distribution Network using DVR” *International Journal of Engineering and Technology (IJET)*, Vol.2, No.1, Feb 2010. ISSN Print: 1793-8236, ISSN Online: 1793-8244.
7. Sunil Kumar Gupta, H.P. Tiwari, Ramesh Pachar, “Study of major issues and their Impact DVR system performance” to be published in *International Journal of Computer and Electrical Engineering (IJCEE)*, Vol.2.No.1, February, 2010. ISSN Print: 1793-8163, ISSN Online: 1793-8198.
8. Sunil Kumar Gupta, H.P. Tiwari “Suitable Capacitor Requirements for Dynamic Desired Voltage Sag Compensation on Distribution Network using DVR” to be published in *International Journal of Engineering and Technology (IJET)*, IJET Vol. 2 No. 1 February 2010. ISSN Print: 1793-8236, ISSN Online: 1793-8244.

9. H.P. Tiwari, Sunil Kumar Gupta, "DC Energy Storage Scheme for DVR Voltage sag Mitigation System" to be published in International Journal of Computer Theory and Engineering (IJCTE), Vol. 2, No. 3, June, 2010. ISSN Print: 1793-8201, ISSN Online: 1793-821X.
10. Sunil Kumar Gupta, H.P. Tiwari, Rajesh Kumar "Analysis of Total Harmonics Distortion In DVR Compensated system, "Journal Of Electrical Engineering (JEE)" Vol10,Edition1, Pages 27-33, 2010.
11. H.P. Tiwari, Sunil Kumar Gupta, "Dynamic voltage restorer based on load condition" International Journal of Innovation, Management and Technology accepted in 2010, ISSN: 2010-0248.
12. H.P. Tiwari, Sunil Kumar Gupta, "DVR based on fuel cell an innovative back -up system" International Journal of Environmental Science and Development (IJESD)" accepted in 2010. ISSN: 2010-0264.
13. H.P. Tiwari, Sunil Kumar Gupta," Dynamic voltage restorer against voltage sag, "International Journal of Innovation, Management and Technology (IJIMT)" accepted in 2010. ISSN: 2010-0248.
14. H.P. Tiwari, Sunil Kumar Gupta, " Control strategies for voltage sag compensation in DVR" International Journal On Electronic and Electrical Engineering, (IJEEE) ISSN 0974-2042, Acceptance Code: SERC-IJEEE-S10-03-10.
15. Lata Gidwani, H.P. Tiwari, "Improving Power System Dynamic Behavior through control strategies in wind energy conversion system," accepted in International Journal of Electrical Energy System (IJEES) Serial publication 25th March 2010.
16. Rajesh Kumar, R. A. Gupta, S.V. Bhangale. "Vector Control Techniques for Induction Motor Drive: A Review" International Journal of Automation and Control , Inder Science Publishers (IJAAC) Vol. 3, no: 4, pp.284-306, 2009.
17. Rajesh Kumar, R. A. Gupta, Rajesh S. Surjuse. "Adaptive Neuro-Fuzzy Speed Controller for Vector Controlled Induction Motor Drive" Asian Power Electronics Journal (APEJ), Vol. 3, No. 1, Sept. 2009, pp.8-14.
18. 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. (Accepted)
19. A. R. Phadke, Manoj Fozdar K. R. Niazi, " A new multi-objective formulation for optimal placement of shunt FACTS controller" Electric Power Components and Systems, 37:1386–1402, 2009
20. A. 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," Electric Power Components and system, vol. 38, No. 8, pp. 974-995, 2010.
21. A. 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).
22. A. 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).
  23. K. Dangi, K.R.Niazi, R.C.Bansal, :“Application of Neural Networks for Power System Security Evaluation” ,*International Journal of Electrical Energy Systems*, (Accepted for publication).
  24. N. Gupta, A. Swarnkar, K.R.Niazi, R.C.Bansal, “Multi-objective reconfiguration of distribution systems using adaptive genetic algorithm in fuzzy framework”, *IET Gen. Trans. Dist.* (Accepted for publication).
  25. Nikhil Gupta, Anil Swarnkar, K. R. Niazi “Reconfiguration of Distribution Systems for Real Power Loss Minimisation using Adaptive Particle Swarm Optimisation” , *Electric Power Components and Systems* (Accepted for publication)

#### **List of Papers Presented At International Conferences**

1. Rohit Bhakar, V.S. Sriram, N.P. Padhy, H.O. Gupta, “Cost allocation of DG embedded distribution system by game theoretic models,” *IEEE Power Engineering Society General Meeting*, July 2009, Calgary, Canada.
2. A. Swarnkar, N.Gupta, K.R.Niazi, “Reconfiguration of Radial Distribution Systems with Fuzzy Multi-objective Approach using Adaptive Particle Swarm Optimization” *PES GM2010*, (Accepted).
3. Ramesh Pachar, H.P. Tiwari, Ramesh .C. Bansal “STS Based Protection Of Sensitive Equipments During Starting Of Induction Motor” has been selected in the *WSEAS Conference* in the university of Harvard, USA, January 27-29,2010.
4. Lata Gidwani, H.P.Tiwari, “Wind Power Impact on Transient Fault Behaviour in Electrical Power Grid Using Doubly Fed Induction Generator”, Published in proceeding of *International Conference On Electrical Engineering Hongkong*, 17-19 March, 2010.
5. R. A. Gupta, Rajesh Kumar, and Rajesh S. Surjuse “An Adaptive Neuro-Fuzzy Based Stator Current MRAS Observer for Speed Sensorless Induction Motor Drives” In the *Proceeding of Indian 4th International Conference on Artificial Intelligence (IICAI-09)*, SIT Tumkur, Bangalore, 16-18 Dec. 2009, pp 862-878.
6. R. A. Gupta, Rajesh Kumar, and Rajesh S. Surjuse “ANFIS Based Intelligent Control of Vector Controlled Induction Motor Drive” In the *Proceeding of 2nd International Conference on Emerging Trends in Engineering and Technology (ICETET-09)*, GHRCE Nagpur, 16-18 Dec. 2009, pp 674-680. (Won Best Paper Award)
7. R. A. Gupta, Rajesh Kumar, and Rajesh S. Surjuse “An Adaptive Neuro-Fuzzy Based Speed Sensorless Induction Motor Drives” In the *Proceeding of World Congress on Nature and Biologically Inspired Computing (NABIC’09)*, Coimbatore, 08-11 Dec. 2009, pp 397-402.

8. R.A. Gupta, Rajesh Kumar, Rajesh S. Surjuse, "An Adaptive Neural Integrator for Improving Flux Estimation in Field-Orientation Control of Induction Motor Drives", International Conference on Electrical Energy Systems & Power Electronics in Emerging Economies (ICEESPEEE-09), Chennai, INDIA, pp.810-815, April 2009.
9. R.A. Gupta, Rajesh Kumar, S.V. Bhangale, "18-Sector Switching Strategy for Torque Ripple Reduction of Direct Torque Controlled Induction Motor Drive", International Conference on Electrical Energy Systems & Power Electronics in Emerging Economies (ICEESPEEE-09), Chennai, INDIA, pp.797-803, April 2009.(Won Best Paper Award)
10. R.A. Gupta, Rajesh Kumar, Ajay Kr. Bansal, "Speed Controller for PM Brushless DC Motor Drive Based on Fuzzy Logic" International Conference on Electrical Energy Systems & Power Electronics in Emerging Economies (ICEESPEEE-09), Chennai, INDIA, pp.797-803, April 2009.
11. R.A. Gupta, Rajesh Kumar, S.K. Bishnoi, "Laboratory Verification of Modeling for A DSP Controlled 8/6 Switched Reluctance Motor Drive", International Conference on Electrical Energy Systems & Power Electronics in Emerging Economies (ICEESPEEE-09), Chennai, INDIA, pp.295-302, April 2009.

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

1. Rohit Bhakar, N.P. Padhy, H.O. Gupta, "Distribution network pricing in India: Models and issues," *3<sup>rd</sup> National Conference on Advances in Energy Conversion Technologies*, April 2009, Manipal Institute of Technology, Manipal.
2. Rohit Bhakar, N.P. Padhy, H.O. Gupta, "Reference network development for Jodhpur distribution network," 25th National Convention of Electrical Engineers and National Seminar on Indian Electrical Equipment and Components Manufacturing Industry Destination – 2012, Nov. 2009, Jaipur.
3. Amit Soni, Vikas Gupta, C M Arora, Alpa Dashora, B L Ahuja," On the use of CuGaS<sub>2</sub> and CuInS<sub>2</sub> in the solar cell" Proc. of 18th National Physics Symposium on Radiation Physics( NSRP 18), Pg 348, Nov 19-21,2009.
4. H.P.Tiwari, Sunil Kumar Gupta, Jeetendra Sharma, Neha Tiwari," Voltage Sag Compensation Techniques In Dynamic Voltage Restorer System" ALL INDIA SEMINAR on INNOVATION AND RECENT TRENDS IN POWER SYSTEMS & POWER ELECTRONICS "IRT-PSPE -2010" (ACEIT) 24th & 25th April 2010.
5. H.P.Tiwari, Sunil Kumar Gupta, Jeetendra Sharma, "Protection Scheme of Dynamic Voltage Restorer" National Conference on Electricity crisis in Rajasthan and its solutions (EE Conference-2010),(Baldev Ram Mirdha Institute Of Technology, Jaipur) on Dated 23rd March 2010.
6. H.P.Tiwari, Sunil Kumar Gupta, Jeetendra Sharma, "Comparison of Compensation Techniques in Dynamic Voltage Restorer System" National Conference on Electricity crisis in Rajasthan and its solutions (EE Conference-2010),(Baldev Ram Mirdha Institute Of Technology, Jaipur) on Dated 23rd March 2010.
7. Sunil Kumar Gupta, H.P. Tiwari, Jeetendra Sharma, Neha Tiwari, Vikas Kumar Sharma, "Silicon Oxide Fuel Cell Energy Based Dynamic Voltage Restorer for 13.2 kV Feeders" 2nd National Conference on Energy [MITSNCE 09] 'Renewable

Energy' at Modi Institute of Technology and Science, Laxmangarh Rajasthan INDIA, 31st Oct. -1st Nov., 2009.

8. H.P. Tiwari, Sunil Kumar Gupta, Jeetendra Sharma, Neha Tiwari, Vikas Kumar Sharma, "Impact of Power Factor Variation In DC Storage Capacity of Dynamic Voltage Restorer" 25th National Convention of Electrical Engineering and National Seminar on 'Indian Electrical Equipment and Components Manufacturing Industry Destination -2012' at The Institution of Engineer (India), Rajasthan State Centre Gandhi Nagar Jaipur, 14th -15th November, 2009.
9. R. A. Gupta, Rajesh Kumar and Rajesh S. Surjuse, "A Survey on: Application of Model Reference Adaptive System (MRAS) to Induction Motor Drives", In the Proceeding of National conference on Recent Advances in Electrical and Electronics Engineering (RAEEE-2009), NIT Hamirpur, 23-24 Dec. 2009, pp 247-255.
10. R. A. Gupta, Rajesh Kumar and Manoj Gupta, "A Literature Survey of power Quality disturbances", In the Proceeding of National conference on Recent Advances in Electrical and Electronics Engineering (RAEEE-2009), NIT Hamirpur, 23-24 Dec. 2009, pp 12-23.
11. R. A. Gupta, Rajesh Kumar and Ajay Kumar Bansal, "A new methodology for optimizing the size of hybrid PV/wind system using Genetic Algorithms", In the Proceeding of National conference on Recent Advances in Electrical and Electronics Engineering (RAEEE-2009), NIT Hamirpur, 23-24 Dec. 2009, pp 133-139.
12. R. A. Gupta, Rajesh Kumar and S.K. Bishnoi, "Fuzzy controlled nonlinear high performance switched reluctance motor drive", In the Proceeding of National conference on Recent Advances in Electrical and Electronics Engineering (RAEEE-2009), NIT Hamirpur, 23-24 Dec. 2009, pp 149-156.
13. V.K Jain, Ashwani Sharma and Neeraj Garg ," A Device for monitoring electric power line networks", 25th National Convention of Electric Engineers & National Seminar,14-15 November 2009, Jaipur ,pg. 162-171,Organized the Institution of Engineers (India)
14. V.K Jain and Neeraj Garg," Hydro Energy Scenario : An update", National conference on Modern Trends in Power Engineering and Power Plants , 8-9 october 2009, Trivandrum, Kerla, organized by KSEB Post Graduate Engineer association and college of engineering, Trivandrum, title no. 39,pg no. 286-291.
15. Girraj Prasad,Prashant Dadheech, Vinay Kr. Jadoun, K.R Niazi and V.K Jain,"Application of artificial Neural network in power system" in National Conference on advances in knowledge Management held on 8-9 march-2010 at Deptt of Computer Science and Engineering and Library science Centre,Lingaya's University(Deemed to be Unersivity ),Nachauli,old Faridabad-Jasane Road,Faridabad-121002,Haryana.
16. Girraj Prasad,Prashant Dadheech, K.R Niazi and V.K Jain," Short Term Load Forecasting by using Artificial Neural Network" In National conference on emerging Technological trends at VNS Institute of Technology, Bhopal on March 19-20 ,2010
17. Girraj Prasad,Prashant Dadheech, K.R Niazi and V.K Jain, Mahendra Bhadu and Kailash Sharma "Application and Factor affecting elements of load forecasting and

short term load forecasting based on MLR”, In the Proceeding of National conference on Recent Advances in Electrical and Electronics Engineering (RAEEE-2009), NIT Hamirpur, 23-24 Dec. 2009

#### Books Published

S. No.	Title	Author	Publisher
1.	Control System Engineering- Edition 5,2010	V.K Jain and Smitha Pareek	Genius Publications(India)
2.	Modern Control Theory-Edition first,2010	V.K Jain and Smitha Pareek	Genius Publications(India)
3.	Electrical & Electronics Engineering	K.R.Niazi	Genius Publications(India)
4.	Electronic devices and circuits	Rajiv Tiwari(vol.- I&II)	Genius Publications(India)
5.	8085 Microprocessors	Anil Swarnkar	Genius Publications(India)
6.	8086 Microprocessors	Anil Swarnkar	Genius Publications(India)

#### DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING

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

1. .K. Sharma, “The fractional Laplace Transform,” Signal, video, and image processing DOI 10.1007/s11760-009-0127-2
2. K.K. Sharma, “New inequalities for signal spreads in Linear Canonical Transform Domains,” Signal processing vol. 90 pp. 880–884, 2010.
3. G. Singh, R.P.Yadav, V. Janyani “Multimode Interference (MMI) coupler based all optical switch: Design, applications & performance analysis” Int. journal of recent trends in engg , ISSN 1797-9617, Vol. 1, No. 3, 115-119, June-2009.
4. G. Singh, R.P.Yadav, V. Janyani “A review of Ti-indiffused lithium niobate: A perfect material to design all optical MZI switches” Int. Journal of Advances in Comm. Engg, ISSN: 0975-6094, **Vol. 1, No. 2, p.p 67-72, Dec.-2009.**
5. G. Singh, R.P.Yadav, V. Janyani “Integrated MMI couplers based 4×4 all optical switch with absolute loss uniformity” Photonics Lett. of Poland, ISSN 094, vol. 1 (4), 187-189, Dec. 31st, 2009.
6. G. Singh, R.P.Yadav, V. Janyani “Ti: LiNbO<sub>3</sub> based machzehnder interferometric all optical switches: A review” A chapter published in “New Advanced Technologies”, ISBN: 978-953-307-067-4, March 2010.
7. G. Singh, R.P.Yadav, V. Janyani “Design of symmetric & asymmetric 2x2 all optical Ti: LiNbO<sub>3</sub> machzehnder interferometric switches” Accepted for

- publication with International Journal of Computers and Applications, ISSN 1206-21X, February 2010, to be published by first quarter of 2011.
8. Singh, G., Yadav, R. P., Janyani, V. " Design and analysis of a Ti: LiNbO<sub>3</sub> 1x2 digital optical switch using optimized electrode regions" Accepted for publication with Journ. of Opt. Commun., ISSN: 0173-4911, April 2010.
  9. U. Deshmukh and V. Sahula. Performance evaluation of Arbitration schemes of bus-based communication architectures based on Interactive Generalized Semi Markov Process Model (IGSMP), International Journal of Simulation- Systems, Science and Technology - IJSSST: Vol. 10, No. 1-C, 2009. (Invited & accepted)
  10. D. Boolchandani, Deepak Sharma and V. Sahula, Efficient Kernel Functions for Support Vector Machines based feasibility classification for Analog Circuits macromodeling, Journal of Design, Analysis and Tools for Integrated Circuits and Systems (DATICS), March 2009. (Invited & accepted)
  11. U. Deshmukh, V. Sahula and C. P. Ravikumar. Graph based analytical approaches for performance estimation using Generalized Semi Markov Process model for SoC communication architectures, Springer's Journal on Design Automation of Embedded Systems, May 2009. (First revision submitted)
  12. D. Boolchandani, Abrar Ahmed and V. Sahula, Multi-objective analog circuit sizing using SVM macro-models as evaluation function within Genetic algorithm, Springer's Journal on Analog Integrated circuits & signal processing, May 2009. (Published).

#### **List of Papers Presented At International Conferences**

1. M.M. Sharma, Sanjeev Yadav, R.P. Yadav, "Compact Slotted Microstrip Patch Antenna for Wireless Applications", International Conference on Microwaves, Antenna, Propagation and Remote Sensing, pp.70, 19th – 21st December 2009.
2. M.M. Sharma, Sanjeev Yadav, R.P. Yadav, Y. Ranga, "Multi-frequency Slotted Circular Microstrip Antenna for Wireless Applications", International Conference on Microwaves, Antenna, Propagation and Remote Sensing, pp.47-48, 19th – 21st December 2009.
3. 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" accepted for presentation at the 2010 IEEE AP-S International Symposium on Antennas and Propagation and 2010 USNC/CNC/URSI Meeting in Toronto, Canada, on July 11-17, 2010.
4. 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 – 29 September 2010.
5. 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 2010 5th International Conference on Industrial and Information Systems (ICIIS-2010) 29th July – 1st August, 2010.
6. M. M. Sharma, Sanjeev Yadav, A. Kumar, D. Bhatnagar, R. P. Yadav "Design of Broadband Multi-Layered Circular Microstrip Antenna for Modern Communication Systems", has been communicated to 2010 Asia Pacific Microwave Conference, Pacifico Yokohama, Yokohama, Japan, December 7-10th , 2010.
  7. G. Singh, S. kalra, R.P. Yadav, V. Janyani “1x4 Ti: LiNbO3 digital optical switch: Design & performance analysis for THz operations” International conference on Optics, Chandigarh, India, Oct. 30-Nov. 1, 2009.
  8. G. Singh, S. kalra, R.P. Yadav, V. Janyani “Modified Y-branched, Proton exchanged Lithium Niobate Crystal based Digital Optical Switch (DOS) for 187.5 THz operations ” International conference on Optics, Chandigarh, India, Oct. 30-Nov. 1, 2009.
  9. Singh, G., Yadav, R. P., Janyani, V., Arun K., Rajdeep" Design of ultra-compact, multi coupling region based 2x2 MMI photonic switch" ICMARS 2009, Jodhpur, India, Dec. 20-22, 2009.
  10. U. Deshmukh, Prafull Agarwal and V. Sahula, Stochastic Automata Network Based Approach for Performance Evaluation of Network-on-Chip Communication Architecture, IEEE Computer Society International Symposium on VLSI, Kefalonia, Greece, 5-7 July 2010.
  11. R. A. Patill , A. S. Mandal and V. Sahula, Automatic recognition of facial expressions in Image sequences: A review, International conf. on industrial and information systems, NITK Surathakal, 31 July-1 Aug. 2010. (Accepted)
  12. R. Kumawat, V. Sahula, M. S. Gaur and V. Laxmi, “Modeling and Reliability Evaluation of logic Circuits at Nanoscale”, IEEE International Workshop on reliability aware system design and test, Co-located with 23rd IEEE VLSI design conference, Bangalore, January 7-8, 2010.
  13. U. Deshmukh and V. Sahula, Stochastic Automata Network Based Approach for Performance Evaluation of bus-arbiters for System-on-Chip Communication Architectures, Region 10 Annual International conference TENCON, Dec. 2009 Singapore.
  14. D. Boolchandani, Anupam Kumar and V. Sahula , Multi-objective Analog Circuit Sizing using SVM Macro-model as Evaluation function within Genetic Algorithm, Region 10 Annual International conference TENCON, Dec. 2009 Singapore.
  15. D. Boolchandani, Deepak Sharma and V. Sahula, Analog Circuit Feasibility Modeling using Support Vector Machine with Efficient Kernel Functions, Special Session: Design, Analysis and Tools for Integrated Circuits and Systems (DATICS'09), IAENG International Conference on Electrical Engineering (ICEE'09), Hong Kong, 18th -20th March 2009

### List of Papers Presented At National Conferences

1. M.M. Sharma, Sanjeev Yadav, N.C. Bajia, Madhu Sudan, R.P. Yadav, "A Compact Slotted Circular Microstrip Antenna for Wi-Max Applications" National conference on Advanced Communication Technologies and Applications, 13-14 May 2009.
2. M.M. Sharma, Sanjeev Yadav, N.C. Bajia, Madhu Sudan, R.P. Yadav, "A Compact Slotted Rectangular Microstrip Patch Antenna for Dual Band Operations" National conference on Advanced Communication Technologies and Applications, 13-14 May 2009.
3. M.M. Sharma, Sanjeev Yadav, Madhu Sudan, R.P. Yadav, "Compact Slotted triangular Microstrip Antenna for Wi-max Applications" National Conference on Advances in communication Technologies in Cyber Age, 17th May 2009.
4. M.M. Sharma, Sanjeev Yadav, N.C. Bajia, Madhu Sudan, R.P. Yadav, "A Parasitically Coupled and Slotted Rectangular Microstrip Antenna" National Conference on Advances in communication Technologies in Cyber Age, 17th May 2009.
5. M.M. Sharma, Sanjeev Yadav, R.P. Yadav, N.C. Bajia, Y. Ranga, "E-Shaped Patch Antenna with Slot for Wireless Applications" National Symposium on Advances in Microwave Materials, Devices and Applications, pp.30-32, 12th Dec 2009.
6. M.M. Sharma, Sanjeev Yadav, R.P. Yadav, M.L. Meena, N.C. Bajia, Y. Ranga, "PIFA Having Inverted F-Slot for TVRO Applications" National Symposium on Advances in Microwave Materials, Devices and Applications, pp.37-39, 12th Dec 2009.
7. M.M. Sharma, Neeta Mishra, R.P. Yadav, Sanjeev Yadav, N.C. Bajia, Y. Ranga, "Wideband L-Shaped Parasitically Coupled Rectangular Microstrip Antenna" National Symposium on Advances in Microwave Materials, Devices and Applications, pp.40-42, 12th Dec 2009.
8. M.M. Sharma, Sanjeev Yadav, N.C. Bajia, R.P. Yadav " Compact Ultra-Wideband Elliptical Patch with Hexagonal Ground", National conference on Advances in Microwave Communication, Devices and Applications, 16-17th Feb 2010.
9. Jyoti Sharma, K.K. Sharma, "Power quality analysis based on Threshold Technique," in Proc. National Conference on Advances in Communication Technologies in Cyber Age (ACTCA'09), IETE Jaipur May 17, 2009.
10. [2] Sudhir Kesri, K.K. Sharma, "Comparison of Different Phase Masks in Color Image Encryption/Decryption based on Fractional Fourier Transform domains," in Proc. National Conference on Advances in Communication Technologies in Cyber Age (ACTCA'09), IETE Jaipur May 17, 2009.
11. [3] Krishna Singh, and K.K. Sharma, "Generalized Homomorphic and Root-Filtering in Fractional Fourier Transform Domains," **National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics 2010.**

12. [4] M. Alwani, H. Gupta, and K.K. Sharma, "Contrast Enhancement Algorithm for Fog-Degraded Images," **National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics 2010.**
13. [5] **A. Agarwal, and K.K.Sharma**, "Signal Reconstruction using nonuniform samples in fractional Fourier domains," **National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics 2010**
14. G. Singh, Shruti kalra, R.P. Yadav, V. Janyani "Design of 193/230 THz digital optical switch (DOS) & study of LiNbO<sub>3</sub>crystal cut effects" IETE National conference on Advances in communication technologies in cyber age, Jaipur, May 17, 2009.
15. S. Mahipal, V. Khandelwal, M.Baliwal, G. Singh "Strain Sensitivity of Chirped Fiber Bragg Grating Sensors" IETE National conference on Advances in communication technologies in cyber age, Jaipur, May 17, 2009.
16. G. Singh, S. kalra, T.P.Bhattacharjee, R.P. Yadav, V. Janyani "Design and performance analysis of a 190/230 THz Y-branched digital optical switch using channel profile of proton exchange in lithium niobate crystal" IETE National conference on advances in communication technologies in cyber age, Jaipur, May 17, 2009.
17. Singh, G., Yadav, R. P., Janyani, V., Arun K., Rajdeep" Optimization of Y-shaped digital optical switch (DOS) with graded spacing arrangement of multiple electrode regions" IEEE MTS and IETE Jaipur joint National symposium on Advances in microwave materials, devices & applications, 12th December 2009, Jaipur.
18. Rajdeep Roy, Vishwa Prabhat, Singh, G., Yadav, R. P., Janyani, V., " Digital Optical Switch (DOS) 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 6th, 2010, SKIT Jaipur.

## **DEPARTMENT OF HUMANITIES**

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

1. Bhatt, Preeti, "The Poetics of Aesthetic Expression in the Poetry of Pashupati Jha", *The Indian Journal of English Studies*, Vol. 67, 2010, pp. 45-53.
2. Bhatt, Preeti. "The Role of Focalization in the Construction of the Self: a Study of Three Canadian Short Stories." *Literary Constructs of the Self: Socio-Cultural Contexts*. Ed. Santosh Gupta and Mini Nanda. Jaipur: Institute for Research in Interdisciplinary Studies and Rawat, 2010. 158-69.

### **List of Papers Presented At International Conferences**

1. Bhatt, Preeti "Collaborative Learning: An Effective Tool in the Classroom" in the International Conference on *Speak Volumes: Promoting Communication in the*

*English Language Class* organized by ELT@I Rajasthan: Jaipur Chapter in Jaipur from 20 – 21 November 2009.

2. Bhatt, Preeti “Colonial and Postcolonial Subjectivities in Doris Lessing’s *African Laughter*” in the International Seminar on *Telling Lives: Formations and Reflections in Diverse Narrative Traditions* organized by the Department of English, University of Rajasthan, Jaipur, from 24 - 26 February 2010.

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

1. Bhatt, Preeti “Teaching Postmodernist Theory through Short Fiction” in the UGC Sponsored National Seminar on *New Directions in Literary Studies* organized by International College for Girls, Jaipur, from 29 - 30 January 2010.
2. Bhatt, Preeti “Love Across Boundaries: Muslim Characters and Culture in Three Indian Films” in the National Seminar on *Representation of Muslim Culture in Indian Cinema* organized by Institute for Research in Interdisciplinary Studies, Jaipur, from 23 – 25 April 2010.
3. Sharma, Dipti, Oum Kumari R. and Joshi Deepika, “Electrical Energy from Renewable Energy Sources: Options, Policies and Perspectives in India and Rajasthan”, *National Conference on Technological Innovation for Sustainable Development*, held at Engineering College, Bikaner on 29<sup>th</sup> Aug., 2009.
4. Sharma, Dipti, Joshi Deepika and Oum Kumari R., “Economic Ideology of Gandhi: Relevance in the Current Economic Scenario”, *30<sup>th</sup> Annual Conference of Rajasthan Economic Association*, held at Vardhaman Mahaveer Open University, Kota from 9<sup>th</sup> to 11<sup>th</sup> January, 2010.
5. Sharma, Dipti and Oum Kumari R., “Electrical Power Crises in India and Rajasthan: A Demand Side Management Approach”, *National Conference on Sustainability Survival of the fittest*, held at Kautilya Institute of Technology & Engineering & School of Management, Jaipur on 5<sup>th</sup> & 6<sup>th</sup> May. 2010.

#### **Books Published**

<b>S. No.</b>	<b>Title</b>	<b>Author</b>
1.	Nagaland-The Politics of Alternate Discourse Published in 2009	Dr. V.S.Shekhawat
2.	Sri Lanka: The Politics of Tamil Eelam Published in 2010	Dr. V.S.Shekhawat
3.	Humanities and Social Sciences Published in 2010	Dr. V.S.Shekhawat
4.	Manipur-From Merger to Militancy Published in 2010	Dr. V.S.Shekhawat

## DEPARTMENT OF MECHANICAL ENGINEERING

### Research Papers Published In International Journals:

1. Jain, J, Dangayach, G.S., Agarwal, G., and Banerjee, S., Supply Chain management: Literature Review and Some Issues, *Journal of Studies on Manufacturing*, 1, 1, 11-25, (2010).
2. Mishra, B. and Dangayach, G.S., Performance Improvement through Statistical Process Control: A Longitudinal Study, *International Journal of Globalization and Small Business*, 3, 1, 55-72, (2009).
3. Joshi, R. and Dangayach, G.S., Activity Based Costing as a Tool for Gaining Competitive Advantage: A Case Study, *International Journal of Indian Culture & Business Management*, 2, 1, 47-70, (2009).
4. Augustine, M., Yadav, O.P., Jain, R., Rathore, A.P.S., (2010), "Concept convergence process: a framework for improving product concepts", *Computers & Industrial Engineering*, (Article in press).
5. Yadav, O.P., Bhamare, S.S., Rathore, A.P.S., (2009), "Reliability-based robust design optimization: A multi-objective framework using hybrid quality loss function", *Quality and Reliability Engineering International*, Vol. 26, No. 1, pp. 27-41.
6. Bhamare, S.S., Yadav, O.P., Rathore, A.P.S., (2009), "A Hybrid Quality Loss Function-Based Multi-Objective Design Optimization Approach", *Quality Engineering Journal*, Vol. 21, No. 3, pp. 277-289.
7. Bhamare, S.S., Yadav, O.P., Rathore, A.P.S., (2007), "Evolution of Reliability Engineering Discipline Over the Last Six Decades: A Comprehensive Review", *International Journal of Reliability and Safety*, Vol. 4, pp. 377-410.
8. Bhamare, S.S., Yadav, O.P., Rathore, A.P.S., "A Multi-objective Reliability-based Robust Design Optimization using Hybrid Quality Loss Function", (Communicated to ASME Journal of Mechanical Design.)
9. Augustine, M., Yadav, O.P., Jain, R., Rathore, A.P.S., "Cognitive map based system modeling for identifying interaction failure modes", *Research in Engineering design*. (Communicated)
10. Dr.P.K.Saxena,R.R.Saraf,Dr.S.S.Thipse"Comparative Emission Analysis of Gasoline/LPG automotive bifuel Engine" *International Journal of Environmental science & Engineering*" Volume 1, Number 4, autumn 2009, pp 198.
11. Dr.P.K.Saxena,R.R.Saraf,Dr.S.S.Thipse"Lambda characterization of Diesel-CNG dual fuel Engine" published in *IEEE Explorer*, 15 Jan, 2010. Digital Object Identifier 10.1109/ICECS.2009.29
12. Deepak Tanwar, Ajayata, Dilip Sharma, Y. P. Mathur, S.L. Soni and Kamal K. Khatri, "Performance Analysis and Exhaust Emissions of Fish oil Methyl Ester

- Operated Compression Ignition Engine” Indian Journal of Air Pollution Control Vol. IX, No. 2, pp27-35 (September2009)
13. Kamal K. Khatri, Dilip Sharma and S.L. Soni, “Investigation of Optimum Injection Timing of Direct Injection CI Engine Operated on Preheated Karanj-Diesel Blend” Jordan Journal of Mech. And Industrial Engineering (JJMIE-107-109)(Accepted)
  14. Kamal K. Khatri, Dilip Sharma, S.L. Soni and Deepak Tanwar, “Experimental Investigation of CI engine Operated Micro-Trigeneration system” International Journal of Applied Thermal Engineering 30 Issues 11-12 August (2010), ISSN 1359-4311, pp 1505- 1509
  15. Jitendra Jain, S. L. Soni and Dilip Sharma, "Numerical Solution for Determining Piston Velocity in two Stage Gas Guns and Validation Through Analysis in Ansys" Journal of Electrical and Mechanical Engineering (1) 2010, ISSN 2010-1635, pp1-6
  16. Deepak Tanwar, Kamal K. Khatri, Ajayata, Dilip Sharma, S.L. Soni and Y. P. Mathur, “Microalgae – A Second Generation Biofuel” Fuel Efficiency Nova Publications
  17. Augustine, M., Yadav, O.P., Jain, R., Rathore, A.P.S., (2010), “Concept convergence process: a framework for improving product concepts”, Computers & Industrial Engineering, (Article in press).
  18. Yadav, O.P., Bhamare, S.S., Rathore, A.P.S., (2009), “Reliability-based robust design optimization: A multi-objective framework using hybrid quality loss function”, Quality and Reliability Engineering International, Vol. 26, No. 1, pp. 27-41.
  19. Bhamare, S.S., Yadav, O.P., Rathore, A.P.S., (2009), “A Hybrid Quality Loss Function-Based Multi-Objective Design Optimization Approach”, Quality Engineering Journal, Vol. 21, No. 3, pp. 277-289.
  20. Bhamare, S.S., Yadav, O.P., Rathore, A.P.S., (2007), “Evolution of Reliability Engineering Discipline Over the Last Six Decades: A Comprehensive Review”, International Journal of Reliability and Safety, Vol. 4, pp. 377-410.
  21. Bhamare, S.S., Yadav, O.P., Rathore, A.P.S., “A Multi-objective Reliability-based Robust Design Optimization using Hybrid Quality Loss Function”, (Communicated to ASME Journal of Mechanical Design.)
  22. Augustine, M., Yadav, O.P., Jain, R., Rathore, A.P.S., “Cognitive map based system modeling for identifying interaction failure modes”, Research in Engineering design. (Communicated)

#### **List of Papers Presented At International Conferences**

1. Poonia, A., Dangayach, G.S., and Bhardwaj, A., Ethical values and practices for Cyber Society, published at IEEE International Conference on “Current trends in Information Technology’ held in Dubai on 15-16 Dec 2009, sponsored by UAE

2. Joshi, D., Rathore, A.P.S., Sharma, D., (2010), "Determinants of Competitiveness: A Study of Indian Auto Component Industry", Asian Competitiveness Forum, to be held in Dec. 2010, New Delhi.
3. Joshi, D., Rathore, A.P.S., Sharma, D., (2010), "Globalization and Trade Competitiveness of Indian Auto Component Industry: Challenges and Opportunities", To be held from 16 - 18 Dec. 2010, Indian Institute of Management, Lucknow. (Communicated - Abstract accepted)
4. Augustine, M., Yadav, O. P., Jain, R., Rathore, A.P.S., "An approach to capture system interaction failures of a complex system", Reliability and Maintainability Symposium (RAMS-2011), 24-27 Jan. 2011, Lake Buena Vista, Florida, USA. (Communicated – Abstract accepted)
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.
8. Augustine, M., Yadav, O. P., Jain, R., Rathore, A.P.S., (2009), "Modeling Physical Systems for Failure Analysis with Rate Cognitive Maps", Proceedings of the IEEE International Conference on Industrial Engineering and Engineering Management, (8-11 Dec. 2009), Hong Kong, pp. 1758-1762.
9. Bhamare, S.S., Yadav, O.P., Rathore, A.P.S., (2008), "A Multi-Objective Optimization Approach for Defining Optimal Design Specifications Considering Performance Degradation", Proceedings of the 2008 IEEE IEEM, Dec 2008, Singapore.
10. Bhamare, S.S., Yadav, O.P., Rathore, A.P.S., (2008), "A Multi-objective Reliability-based Robust Design Optimization Framework using Hybrid Quality Loss Function", Proceedings of SAE World Congress- 08M-198, 14th -17th April - 2008, Detroit, USA.
11. Dr.P.K.Saxena,R.R.Saraf,Dr.S.S.Thipse "Comparative Emission Analysis of Gasoline/LPG bi-fuel engine"International Conference Enviro 2009 at Chandigad,(19-21 March, 2009) (Presented &Published)

12. Dr.P.K.Saxena,R.R.Saraf,Dr.S.S.Thipse”Lambda characterization of Diesel-CNG dual fuel Engine”2 nd International conference of Computer & Environmental Engineering,ICECS 2009, 28- 30 Dec, 2009 Dubai, UAE.
13. Kamal Kishore Khatri, Dilip Sharma, S. L. Soni, Deepak Tanwar, “Experimental investigation of performance and exhaust emissions of Karanj methyl ester and its blends in a compression ignition engine” 7th international symposium on Fuels and Lubricants (ISFL-2010), to be organized by Indian Oil, New Delhi during March 9-12, 2010 (P-092)
14. Dilip Sharma, Kamal K. Khatri, S.L. Soni and Deepak Tanwar, “Experimental Investigation of C.I. Engine Operated Micro-Trigeneration System Fuelled with Karanj Methyl Ester-Diesel Blend” International conference on “Sustainable Energy in buildings 2010” 5-7 May 2010, Brighton U.K.
15. Joshi, D., Rathore, A.P.S., Sharma, D., (2010), “Determinants of Competitiveness: A Study of Indian Auto Component Industry”, Global Competitiveness Forum. To be held in Dec. 2010, New Delhi. (Accepted)
16. Joshi, D., Rathore, A.P.S., Sharma, D., (2010), “Determinants of Competitiveness: A Study of Indian Auto Component Industry”, Global Competitiveness Forum. To be held in Dec. 2010, New Delhi. (Accepted)
17. Joshi, D., Rathore, A.P.S., Sharma, D., (2010), “Globalization and Trade Competitiveness of Indian Auto Component Industry: Challenges and Opportunities”. To be held from 16 - 18 Dec. 2010, Indian Institute of Management, Lucknow. (Accepted)
18. Joshi, D., Rathore, A.P.S., Sharma, D., (2010), “Success factors for value creation and sustainable growth of Indian auto component industry”. IBS Hyderabad (Accepted)
19. Augustine, M., Yadav, O. P., Jain, R., Rathore, A.P.S., “An approach to capture system interaction failures of a complex system”, Reliability and Maintainability Symposium (RAMS-2011), 24-27 Jan. 2011, Lake Buena Vista, Florida, USA. (Paper accepted)
20. 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.
21. 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.
22. 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.
23. Augustine, M., Yadav, O. P., Jain, R., Rathore, A.P.S., (2009), “Modeling Physical Systems for Failure Analysis with Rate Cognitive Maps”, Proceedings of

- the IEEE International Conference on Industrial Engineering and Engineering Management, (8-11 Dec. 2009), Hong Kong, pp. 1758-1762.
24. Bhamare, S.S., Yadav, O.P., Rathore, A.P.S., (2008), “A Multi-Objective Optimization Approach for Defining Optimal Design Specifications Considering Performance Degradation”, Proceedings of the 2008 IEEE IEEM, Dec 2008, Singapore.
  25. Bhamare, S.S., Yadav, O.P., Rathore, A.P.S., (2008), “A Multi-objective Reliability-based Robust Design Optimization Framework using Hybrid Quality Loss Function”, Proceedings of SAE World Congress- 08M-198, 14th -17th April - 2008, Detroit, USA.

**List of Papers Presented At National Conferences**

1. Prajapati O.S. and Rajvanshi A.K., “An Experimental Study of Subcooled Flow Boiling Heat Transfer”, 2<sup>nd</sup> National Conference on Energy held at Lakshmangarh, Sikar on October 31-November 1, 2009.
2. Puli U. and Rajvanshi A.K. “High Speed Visualization Study of Subcooled Flow Boiling” Proceedings of the 10th Asian Symposium on Visualization held at SRM University, Chennai from 1st to 5th March, 2010.
3. Prajapati O.S. and Rajvanshi A.K., “A Performance Analysis of Subcooled Flow Boiling Heat Transfer”, National Conference on New Opportunities and Development in Renewable Energy Sources held at Rajasthan Institute of Engineering and Technology, Bhankrota, Jaipur on March 20-21, 2010.
4. Poonia, A., Dangayach, G.S., and Bhardwaj, A., “Technological Impact on Society: The Darker side of ICT”, published in National Conference on Technological Innovations for Sustainable Development held at Engineering College Bikaner , Bikaner on 29 August, 2009.
5. Bhamare, S.S., Rathore, A.P.S., Yadav, O.P., (2008), “An Approach to Analyze Degrading Multiple Responses using Time-Dependent Quality Loss Function”, Proceedings of National Conference on Automation and Advances in Mfg. Strategies, The Institute of Engineers, 5th – 6h Jan. 2008, Jaipur, Rajasthan.
6. Bhamare, S.S., Rathore, A.P.S., Yadav, O.P., (2007), “A Framework For Early Design Decision Making”, Proceedings of National Conference on Automation and Advances in Mfg. Strategies, The Institute of Engineers, 27th – 28th Jan 2007, Jaipur, Rajasthan.
7. Bhamare, S.S., Rathore, A.P.S., Yadav, O.P., (2008), “An Approach to Analyze Degrading Multiple Responses using Time-Dependent Quality Loss Function”, Proceedings of National Conference on Automation and Advances in Mfg. Strategies, The Institute of Engineers, 5th – 6h Jan. 2008, Jaipur, Rajasthan.
8. Bhamare, S.S., Rathore, A.P.S., Yadav, O.P., (2007), “A Framework For Early Design Decision Making”, Proceedings of National Conference on Automation and Advances in Mfg. Strategies, The Institute of Engineers, 27th – 28th Jan 2007, Jaipur, Rajasthan.

9. Bhamare, S.S., Rathore, A.P.S., (2005), "Role of Physics-of-Failure Theories in Reliability Based Product Design", Proceedings of National Conference on Advances in Production Engg: Vision 2020, The Institute of Engineers, 30 - 31 Dec. 2005, Jaipur, Rajasthan.
10. Arun K. Goyal, Pawan K. Agarwal, Dilip Sharma and S.L.Soni, "Review on Human Comfort in Buildings by using Phase Change Materials" National Conference on "Advancement & Futuristic Trends in Mechanical & Material Engineering", Yagavailkya Institute of Technology, Sitapura, Jaipur (Rajasthan) on 30 April to 01 May 2010.
11. Pawan K. Agarwal, Dileep Kumar Jain, Dilip Sharma and Arun Goyal, "Performance Comparison of Rankine Cycle Using Solar Energy and Supercritical CO<sub>2</sub> over Basic Cycle: A Review" National Conference on "Advancement & Futuristic Trends in Mechanical & Material Engineering", Yagavailkya Institute of Technology, Sitapura, Jaipur (Rajasthan) on 30 April to 01 May 2010.
12. Sumit Mittal, Ashish Puri, Sandhya Singh, Kamal Kishore Khatri, Dilip Sharma and S. L. Soni, "Combined Cooling, Heating and Power: An efficient, decentralized generation of energy" National Conference on "Advancement & Futuristic Trends in Mechanical & Material Engineering", Yagavailkya Institute of Technology, Sitapura, Jaipur (Rajasthan) on 30 April to 01 May 2010.
13. Vinod S. Yadav, Arun K. Goyal, Pawan K. Agarwal, Dilip Sharma and S.L. Soni, "Experimental Investigation of Engine Performance and Emissions of a Single Cylinder Diesel Engine using Hydrogen as Inducted Fuel and Diesel as Injected Fuel" National Conference on "Advancement & Futuristic Trends in Mechanical & Material Engineering", Yagavailkya Institute of Technology, Sitapura, Jaipur (Rajasthan) on 30 April to 01 May 2010.
14. Arun K. Goyal, Pawan K. Agarwal, Vinod S. Yadav, Dilip Sharma and S.L. Soni, "Blend Stability and Engine Performance Studies of Ethanol-Biodiesel-Diesel Blends" National Conference on "Renewable Energy: Future Saviour of The World (REFSW)", Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur (Rajasthan) on 7-8 May 2010.
15. Pawan K. Agarwal, Arun K. Goyal, Vinod S. Yadav Dilip Sharma and S.L. Soni, "Experimental Investigation of Optimum Injection Pressure for Ethanol-Biodiesel-Diesel Blend" National Conference on "Renewable Energy: Future Saviour of The World (REFSW)", Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur (Rajasthan) on 7-8 May 2010.
16. Vonod S. Yadav, Arun K. Goyal, Pawan K. Agarwal, A. Chandramouli, Dilip Sharma and S.L. Soni, "Effect of Water Injection on the Performance and Emissions of SI Engine" National Conference on "Renewable Energy: Future Saviour of The World (REFSW)", Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur (Rajasthan) on 7-8 May 2010.
17. Vinod S. Yadav, Arun K. Goyal, Pawan K. Agarwal, Dilip Sharma and S.L. Soni, "Performance analysis and Emissions from a Single Cylinder Diesel Engine operated on Hydrogen and Diesel in Duel Fuel mode with EGR", National

Conference on “Renewable Energy: Future Saviour of The World (REFSW)”, Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur (Rajasthan) on 7-8 May 2010.

18. Pawan K. Agarwal, Arun K. Goyal, Vinod S. Yadav, Dilip Sharma and S.L. Soni, “Design aspects of solar water pump based on Gas equation” National Conference on “Renewable Energy: Future Saviour of The World (REFSW)”, Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur (Rajasthan) on 7-8 May 2010.

#### Books Published

S. No.	Title	Author	Publisher
1.	<i>Development of an Intelligent Recommender System for E-Guided Tourism</i>	Banerjee, S., Dangayach, G.S	Verlag Dr. Müller Aktiengesellschaft & Co. KG, Dudweiler Landstr. 99 66123 Saarbrücken Germany, <a href="http://online.vdm-verlag.de">http:// online.vdm-verlag.de</a> ISBN: 978-3-639-11492-8, June 2009.

#### DEPARTMENT OF MATHEMATICS

##### Research Papers Published In International Journals:

1. Sanjay Bhatte and Shalini Shekhawat, The General Eulerian Integral, Int. Journal of Math. Analysis, Vol. 4 (2010) 393-402.
2. Kantesh Gupta and Vandana Agarwal, “On the solution of generalized Fredholm Type Integral Equations” Journal of Applied Mathematics, Statistics and Informatics (JAMSI), 5(2009). No. 1 Korea.
3. K.C. Jain and Amit Srivastava, “Some New Weighted Information Generating Functions of Discrete Probability Distributions” Journal of Applied Mathematics, Statistics and Informatics (JAMSI), Vol. 5 No. 2 December-2009. 15-22
4. K.C. Jain and Ruchi Mathur. “A New Information Generating Function” International Journal of Mathematics and Applied Statistics. Vol 1 No 1, 13-18, January-June 2010

##### Research Papers Published In National Journals:

1. Rashmi Jain, Sanjay Bhatte and Shalini Shekhawat, Fourier Series for Generalized Mellin Barnes Type Contour Integrals with Applications, Acta Mathematica Cinica, Vol. XXXV M, 3, (2009) 1033. Rashmi Jain and Ranjeeta Nahar, “On A Double Integral Involving the Product of Generalized Mellin Barnes Type Contour Integrals,  $S_V^{U_1, \dots, U_k}$  and  $R_n^{(\alpha, \beta)}$ ”, Proc. Nat. Acad. Sci. India Sect. A, Vol. 79, Pt. II (2009), 195-203.
2. K. C. Gupta, Sanjay Bhatte and Shalini Shekhawat, On a basic integral involving the H-function of two variables, J. Raj. Acad. Phy. Sci., Vol. 8, No. 4, (2009) 485-488.

3. Sanjay Bhatte and Shalini Shekhawat, Certain Multiplication Formulae for Multivariable H-Function, J. Raj. Acad. Phy. Sci., Vol.8, No. 2, (2009) 211-218.
4. K.C.Jain and Ruchi Mathur, An Information Divergence Measure of Csiszar's f-divergence Class and its bounds. J. Raj. Acad. Phy. Sci., Vol.9, No. 1, (2010) 65-76

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

1. K.C.Jain and Ruchi Mathur "A new Symmetric Divergence Measure and its bounds" Presented by Ruchi Mathur in National Conference of Rajasthan Ganita Parishad Held at M.N.I.T. Jaipur during 20-21 Feb., 2010
2. K.C.Jain and Ruchi Mathur "Symmetrivc Divergence Measure based on Means " Presented by Ruchi Mathur in National Conference on Recent Developement in Engineering. Mathematic and Information Technology held on 25-26 Dec, 2009 at Poornima Group of College , Jaipur.
3. K.C.Jain and Ram Naresh Sarswat " On some Information Measures and related Inequalities" Presented by Ram Naresh Sarswat in National Conference of Rajasthan Ganita Parishad Held at M.N.I.T. Jaipur during 20-21 Feb., 2010

#### **Books Published**

1. K.C.Jain and M.L.Rawat " Discrete Mathematical Structure " Fifth Revised Edition Published By College Books Centre, Jaipur. March, 2010.
2. Kantesh Gupta " Advanced Engineering Maths-3(For EC & El.)" 3rd Revised Edition
3. Kantesh Gupta "Advanced Engineering Maths-4(For EC & El.)" 3rd Revised Edition
4. Kantesh Gupta "Advanced Engineering Maths-3(For Mech)" 2nd Revised Edition
5. Kantesh Gupta "Advanced Engineering Maths-3(For Civil)" 1st Edition

### **DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING**

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

1. Lorenz Ratke and **Ashok Sharma**, "Microstructural Studies of A357 Alloy Cast by RSF Process", Springer, Transactions of the Indian Institute of Metals, Vol. 62, Issues 4-5, August –October 2009, pp. 327-330.
2. A.A. Gadhikar, C.P. Sharma, D.B. Goel and **Ashok Sharma**, "Effect of heat treatment on carbides in austenitic stainless steel, Metal sceicne and heat treatment (Communicated).

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

1. Divya Kohli and **Ashok Sharma**, "Solidification and Grain Refinement in Aluminium Alloys", Foundry, March-April, 2009, pp. 81-87.

2. Madhulika Shrikanth and **Ashok Sharma**, “In pursuit of Advanced Technologies – Semi-Solid Metal processing”, Foundry, May-June, 2009, pp. 75-83.
3. P.C. Meena and **Ashok Sharma**, “Assessment of Grain Refining Efficiency of Al-Ti-C master Alloy on Al-7Si alloys, Indian Foundry Journal, Vol. 55, No. 10, October, pp. 23-27.
4. Aniruddha Gadhikar, C.P. Sharma, D.B. Goel, **Ashok Sharma** and S.K. Goel, “Physical Metallurgy and Melting Practice of Nitrogen bearing austenitic stainless steel, Indian Foundry Journal, Vol. 56, No. 3, March 2010, pp. 23-31.
5. Rajneesh Chandra & **N.C. Upadhyay**, “Aluminium matrix composites in aerospace application” Journal of IIM Metal news, Vol. 12, No. 3, June 2009.
6. Sandeep Gampa & **N.C. Upadhyay**, “Processing of Materials for super plasticity” Journal of IIM Metal news, Vol. 12, No. 6, December 2009

#### **List of Papers Presented At International Conferences**

1. Satish Taylor, **V.K. Sharma and P.R. Soni**, “Plasma spray coating : State of the Art”, research paper, presented “International Conference & exhibition on powder metallurgy & 36<sup>th</sup> Annual meetings”, PM-10 held at Rajputana Sareton Hotel, on 28<sup>th</sup> Feb. 2010.
2. Lorenz Ratke and **Ashok Sharma**, “Microstructural Studies of A357 Alloy Cast by RSF Process”, presented in 4<sup>th</sup> International Conference on Solidification Science & Processing, 19-21, November 2009.
3. **R.K. Yadava and V.K. Sharma**, “Corrosion and wear characteristics of thin hard composite coating”, International Conference & expo on Corrosion 29-30 Sept , 1 October 2009, Mumbai, India, Organized by NACE Gateway, India.

#### **DEPARTMENT OF PHYSICS**

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

1. R. Jain, D. Bhandari, A. Dhawan and **S. K. Sharma**, “Characterization of Native Oxide Film on Amorphous  $\text{Co}_{66}\text{Si}_{16}\text{B}_{12}\text{Fe}_4\text{Mo}_2$  by X-ray Photoelectron Spectroscopy”, Journal of Alloys and Compounds, Vol. 490 (2010) 613-617.
2. S. Mathur, R. Vyas, **K. Sachdev** and **S. K. Sharma**, “Corrosion Behaviour of  $\text{Ni}_{78}\text{Si}_8\text{B}_{14}$  Alloy in 1 M NaCl Aqueous Medium at Room Temperature”, American Institute of Physics, Vol. 1249 (2010) 198-201.
3. S. Mathur, R. Vyas, S. N. Dolia, **K. Sachdev** and **S. K. Sharma**, “A Comparative Study of Corrosion Behaviour of Amorphous and Nanocrystalline  $\text{Ti}_{60}\text{Ni}_{40}$  in 0.5

MH<sub>2</sub>SO<sub>4</sub> and 0.5 M HNO<sub>3</sub> Aqueous Media”, Advanced Materials Research, Vol. 67 (2009) 179 – 184.

4. S. Mathur, R. Vyas, S. N. Dolia, **K. Sachdev** and **S. K. Sharma**, “Corrosion Behaviour of Amorphous and Nanocrystalline Ti<sub>60</sub>Ni<sub>40</sub> in Aqueous HNO<sub>3</sub> Solution”, Advanced Materials Research, Vol. 67 (2009) 173 – 178.

#### **List of Papers Presented At International Conferences**

1. S. Mathur, R. Vyas, **K. Sachdev** and **S. K. Sharma**, “Electrochemical Behaviour of Different Structural States of the Alloy Ti<sub>60</sub>Ni<sub>40</sub> in 0.1 M NaCl Aqueous Medium”, International Conference on Recent Advance in Industrial Electrochemical Science and Technology ICRAIEST 09, University of Manglore during 5-7 Nov-2009.

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

1. Shubhra Mathur, Rishi Vyas, **K. Sachdev** and **S. K. Sharma**, “Potentiodynamic Polarization Studies on Ti<sub>60</sub>Ni<sub>40</sub> and Ni<sub>78</sub>Si<sub>8</sub>B<sub>14</sub> alloy after High Energy Irradiation with Ni<sup>11+</sup> 150 MeV ions”, 3<sup>rd</sup> National Symposium for Material Research Scholars MR-10 organized by Department of Metallurgical Engineering and Materials Science, IIT Bombay during 7-8 May-2010.
2. Shubhra Mathur, Rishi Vyas, **K. Sachdev** and **S. K. Sharma**, “Comparison of Corrosion Behaviour of Crystalline, Amorphous and Nanocrystalline States of the Alloy Ti<sub>60</sub>Ni<sub>40</sub> in 0.5 M NaCl and 0.5 M HNO<sub>3</sub> Aqueous Medium” 2<sup>nd</sup> National Conference on Nanomaterials and Nanotechnology, University of Lucknow, 21-23 Dec-2009.
3. Abhishek Sharma, **K. Sachdev**, G. Zala, Alphonsa J. and **K. C. Swami**, “Effect of Plasma Nitriding on the microstructure and properties of several steels” Plasma 2009, NIT Hamirpur during 09-12 Dec-2009.
4. Kanan Jassal, Om Prakash, **K. Sachdev** and A. Chougale, “Measurement of Backscattered from various energies of Photons using chemical Dosimeter”, 18<sup>th</sup> National Symposium on Radiation Physics, Mohanlal Sukhadia University during 19-21 Nov-2009.
5. R. Vyas, S. Mathur, P. Shrivastava, **K. Sachdev** and **S. K. Sharma**, “Comparative investigations of annealing effects on structural and optical properties of ZnO thin films synthesized by chemical bath deposition”, Neutron scattering and mesoscopic system, organized by DAE in International Centre, Goa University during 12-14 Oct-2009.
6. Shubhra Mathur, Rishi Vyas, **K. Sachdev** and **S. K. Sharma**, “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”, 5<sup>th</sup> National Conference on Thermo Physical Properties, organized by Applied Physics Department, University of Baroda during 7-9 Oct 2009.

**Any Other Information:**

1. Prof. S. K. Sharma : On referee panel for J. Materials Research (MRSI, USA), J. Non Crystalline Solids, Bulletin of Materials Science.
2. Dr. K. Sachdev : On referee panel for J. Non Crystalline Solids.

**DEPARTMENT OF STRUCTURAL ENGINEERING**

**Research Papers Published In National Journals:**

S.D. Bharti, S.M. Dumne, M.K. Shrimali, Seismic response analysis of adjacent buildings connected with MR Dampers, published in Engineering Structures 2010 (32) pp 2122-2133

**List of Papers Presented At National Conferences**

1. Control Methods for Seismic Retrofitting of Building workshop on Rehabilitation and Retrofitting of Structures Aug. 28-30, 2009 at IIT Bombay organized by SPCE, ASTR, IASE

**DEPARTMENT OF MANAGEMENT STUDIES**

**Research Papers Published In International Journals:**

1. Khidiya Mahendra Singh, Bhardwaj A., Design, Development and Ergonomic Analysis of Hand Operated Spade, ‘Ergonomics Australia’, Volume 24, No. 1, 15-30, March 2010
2. Salvi, B.L., Bhardwaj A. , ‘Study of the Effects of Varying Colours on Industrial Illumination, Human Working and Production’ ‘Journal of Industrial Engineering International’. Vol. 5, No. 9, 37-45, June 2009.

**CENTRAL COMPUTER CENTER**

**Research Papers Published In International Journals:**

3. Vinit Sharma , A.K.Solanki and Arti Kashyap. Electronic, magnetic and transport properties of  $\text{Co}_2\text{TiZ}$  ( $Z=1/4\text{Si, Ge and Sn}$ ): A first-principle study. Journal of Magnetism and Magnetic Materials 322 (2010) 2922–2928

4. R. Skomski, A. Kashyap, A. Solanki, A. Enders, and D. J. Sellmyer. Magnetic anisotropy in itinerant magnets. JOURNAL OF APPLIED PHYSICS 107, 09A735 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	No. of Seats
1.	Architecture	52
2.	Chemical Engineering	78
3.	Civil Engineering	92
4.	Computer Engineering	78
5.	Electrical Engineering	78
6.	Electronics & Communication Engineering	92
7.	Information Technology	78
8.	Mechanical Engineering	78
9.	Metallurgical Engineering	78
	<b>Total</b>	<b>704</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 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

#### (a) Students admitted to Undergraduate Programmes during the session 2009-10

Branch	Students admitted
Civil Engg.	93
Electrical Engg.	81
Electronics & Comm. Engg.	92
Mechanical Engg.	78
Metallurgical Engg.	72
Chemical Engg.	78
Computer Engg.	79
Information Technology	80
Architecture	48
<b>Total</b>	<b>701</b>

#### (b) Students admitted to Postgraduate Programmes during the session 2009-10

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

Branch	Students admitted
Environmental Engg.	22
Transportation Engg.	21
Water Resources Engg.	00
Structural Engg.	16
Power Systems	18
Electronics & Comm. Engg.	20
Manufacturing System Engg.	20
Metallurgical & Materials Engg.	13
Chemical Engg.	20
Energy Engg.	20
VLSI Design	17
Computer Engg.	20
M. Planning	09
M. Sc. in Physics	13
M. Sc. in Chemistry	28
M. Sc. in Mathematics	00
M. B. A.	47
M. B. A. Technology Management	16
<b>Grand Total</b>	<b>320</b>

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

Branch	Students admitted
--------	-------------------

Environmental Engg.	1
Power Systems	5
Electronics & Comm. Engg.	3
Manufacturing System Engg.	4
Structural Engg.	4
Transportation Engg.	4
Chemical Engg.	0
Energy Engg.	0
VLSI Design	0
Computer Engg.	3
M. Planning	0
<b>Grand Total</b>	<b>24</b>

### (iii) Ph.D. Programmes

S. No.	Department	Students admitted	
		Full Time	Part Time
1.	Chemical Engineering	2	0
2.	Chemistry Dept.	2	0
3.	Civil Engineering	3	4
4.	Computer Engineering	2	1
5.	Electrical Engineering	1	1
6.	Electronics & Communication Engg.	2	8
7.	Humanities & Social Science	1	4
8.	Management Studies Dept.	0	0
9.	Mathematics Dept.	3	0
10.	Mechanical Engineering	2	4
11.	Metallurgical & Materials Engineering	0	0
12.	Physics Dept.	0	1
13.	Structural Engineering	2	3
	<b>Grand Total</b>	<b>20</b>	<b>26</b>

## 11.11 SCHOLARSHIPS AND AWARDS

### For Postgraduate Students

S.No.	Name of Scholarship	Address	Amount	Conditions
1	Award of National Renewable Energy Fellowship from Institute of Technology, Delhi	IIT Hauz Khas New Delhi 110016	Rs.8000/-PM+ Contingency  (Rs. 8000/-PA)	For M.Tech.
2	Govt. of India (MHRD) New Delhi	MHRD New Delhi	Rs. 5000/-PM  + Contingency Rs. 5000/- PA	For M.Tech.
3	Scholarship to	Adviser All India	Rs. 2500/- PM+	For M. Tech.

	Sponsored candidates QIP(Poly) Scheme Scholarship from AICTE New Delhi	Council of Technical Education, Sports Complex IP Estate New Delhi 110002	Contingency Rs. 5000/- PA	
4	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	Research Fellowship in Chemistry	Council of Scientific & industrial Research (UGC) University Grants Commission New Delhi	JRF, SRF, RA Fellowship+ Contingency	For Ph.D.
3	Research Scholarship Physics, Chemistry, Maths	Institute	Rs. 2500/-PM Rs. 1000/- PM	For Ph. D.
4	Institute Fellowship JRF	Institute	Rs. 8000/-	For Ph.D.
5	Institute Fellowship	Institute	Rs. 9000/-	For Ph.D.

### **SCHOLARSHIP AND STIPENDS (2009-10)**

S. No.	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/-	Children of the Company
2	O.N.G.C. Dehradun for SC/ST	General Manager ONGC, Tel Bhavan Dehradun	Rs. 9000/-	Merit ONGC finalizes the merit
3	Shamjee Memorial Trust	9K Block, Connaught Circus New Delhi	Rs. 4000/-	Trust finalizes the merit (any students)
4	Kunan Kour Suri Memorial Scholarship	B-205 Rajendra Marg, Bapu 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. 4800/-	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	Akhil Bharti Vaishya Marvari Agarwal Jatiya Scholarsip	227-Kalbadau Road Mumbai-2	Rs. 600/-	-
9	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
10	Govt. of India Scholarship for ST/SC students	Director of Adi-Dravidar and Tribal Welfare	Rs. 6650/-	For Tribal Students of TN
11	Social Welfare Department of Ex-Servicemen	Director of Social Welfare Department of Ex-Servicemen, Kota	Rs. 2500/-	-
13	TCS Colombo Plan	Indian Council for Cultural Relations, New Delhi	Rs. 9000/- PM	Foreign Students
14	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. 1000/-	Merit cum means

**Various State Level Scholarships for Merit Students / SC/ ST/ OBC (UG Students)**

S. No.	Respective State	Board of Higher Education/Bard of Higher Secondary/Technical Education
1.	Bihar	Post MatricScholarship, Post MatricScholarship Jamshedpur
2.	Jharkhand	Post Matric Scholarship
3.	Orissa	Post Matric Scholarship/SC/ST
4.	Gujarat	Post Matric Scholarship
5.	Shillong	North Eastern Council
6.	Kerala	Post Matric Scholarship
7.	Dehradun	Post MatricScholarship

	(Uttaranchal)	
8.	Maharashtra	Post MatricScholarship
9.	M. P.	Post MatricScholarship, Bhopal, Bilaspur, Shivpur, Ujjan, Gwalior, Bala Ghat etc.
10.	Goa	Post Matric Scholarship
11.	West Bengal	Post Matric Scholarship, Kolkatta
12.	U. P.	Post Matric Scholarship Lucknow
13.	Manipur	Post MatricScholarship Imphal
14.	Maharastra	National and State Merit Scholarship Pune
15.	Assam	Post Matric Scholarship
16.	J & K	Post Matric Scholarship
17.	Andman Nicobar	Post Matric Scholarship
18.	Kerala	Post MatricScholarship Thiruvananthapuram
19.	Meghalaya	State Merit Scholarship Shilong
20.	New Delhi	National Talent Search Scholarship
21.	Chattisgarh	Technical Education Scholarship Raipur
22.	Tripura	State Merit Agartala
23.	Andhra Pradesh	Post Matric Scholarship Hyderabad
24.	Andhra Pradesh	Post Matric Scholarship OBC
25.	Assam	Technical Engineering Merit Scholarship Khilapara, Guwahati
26.	Chennai	Post MatricScholarship
27.	Haryana	Post MatricScholarship
28.	West Bengal	Post MatricScholarship
29.	M. P.	National Scholarship M. P.
30.	Nagaland	Post MatricScholarship Kohima
31.	Karnataka	Post Matric Scholarship Karnataka
32.	Nepal	ICCR New Delhi
33.	DRDT Jaipur	DRDT Jaipur Govt. of Rajasthan
34.	Govt. of Rajasthan	Post Matric Scholarship. Dy. Director Social Welfare Dept. SC/ST/OBC
35.	Govt. of Rajasthan	Physical Handicapped scholarship Social Welfare Dept.
36.	S. J. Jindal	Trust, New Delhi
37.	New Delhi	Central Sector Scholarship Scheme of Top Class Education for Schedule Caste (SCs) students
38.	New Delhi	Merit Cum Means based scholarship scheme belonging to the minorities communities

39.	All States	Study Loan
40.	Rajasthan	Ex-serviceman Scholarship
41.	Himachal Pradesh	Brilliance Merit

## 11.12 TRAINING AND PLACEMENT STATISTICS

### Overview of placements for 2009-10 batch

Placement cell of Malaviya National Institute of Technology Jaipur is pleased to announce that placements for the 2009-2010 batch have reached 100% placements with over 100 (30%) students having more than one placement offer.

Even at the time of global crisis, Ninety eight companies have visited our campus till date, a record in the history of MNIT. Many records were broken this year including the number of students placed which rose from 337 in the year 2008-09 to 394 this year. Average package for the year 2009-10 is Rs 3.93 lakhs per annum. HPCL and Future first have provided compensation of 9.3 and 8.3 lakhs per annum. the IT sector and NON IT sector both have almost equal dominance over placements. Among the selected candidates, the selection percentage for IT sector is 49.1% and for NON IT sector is 50.9%. Each branch have majority placements in their respective field of engineering, as Mechanical has achieved 96.9% core placement similarly 92.5% for Civil, 95% for Computers, 94% for IT, 75.3% for ECE, 73.6% for Electrical, 66.2 % for Chemical and 70.9% for Metallurgy in their respective field of engineering. The trend has not changed from the last year. Students have shown keen interest to pursue their carrier in their respective core sectors, because of better promise and healthy carrier growth and job satisfaction. Worldwide down turn, has very much effected the IT sector, because of downturn many of IT sectors companies did a lot of retrenchment. These happenings worked as deterrent for students. The summary of placement for 2009-10 is shown in table-1.

**Table-1 Summary of placement for session 2009-10**

Branch Wise Total	No. Of Placements	No. Of Students Placed	Total No. Of Students i.e. batch strength	Students Passing Out in 2010 Batch	No. Of Eligible Students	% Placed Out Of Eligible
<b>CS</b>	74	54	61	49	47	114.89
<b>ECE</b>	83	59	64	54	49	120.41
<b>IT</b>	68	49	54	48	46	106.52
<b>EE</b>	64	49	57	53	50	98.00
<b>CIVIL</b>	54	41	56	51	46	89.13
<b>CHE</b>	46	39	51	45	41	95.12
<b>META</b>	42	37	47	44	40	92.50
<b>MECH</b>	53	44	52	41	41	107.32
	<b>484</b>	<b>395</b>	<b>442</b>	<b>385</b>	<b>360</b>	<b>103.33</b>

<b>Companies from IT sector</b>	
NETAPP	DIRECTI
KELLY SERVICES	INFOSYS
AIRVANA	SONY INDIA
ACCENTURE	E2EINFOTECH
ADOBE	HCL
ERICSSON	MEDIATEK
FISERV	SAMSUNG INDIA
CAPGEMINI	GOOGLE
SAPIENT	CSC
WINSHUTTLE	NAGARO
NOKIA SIEMMENS	IBM
MOBICULES	TCS
BARCLAYS FINANACE	APPLIED MATERIALS
AGNITY	ATOS
INFI NEON WEBTECHNOLOGY	

<b>Companies from Non- IT sector</b>	
HINDUSTAN ZINC (VEDANTA)	JOHN DHEERE
BAJAJ AUTO	LAFARGE
DRDO	TCE
ENERGY INTRATECH	N.T.P.C
SOMA INTERPRISES	JINDAL STAINLESS LTD
SIEMENS POWER	ENERGY INFRATECH
IOCL	BAJAJ AUTO
LNT VALDEL	NDPL
SAMSUNG ENGINEERING	SHARP MENTHOL
FUTURE FIRST	MAHINDRA
SIMPLEX	ADANI POWER LTD
CROMPTON GREAVES	IOCL
TCE	HERO HONDA
FUTURES FIRST	BCH ELECTRIC
PUNJ LOYD	GUJRAT GIFT
TATA MOTORS	SRF
TELCON	THERMAX INDIA
MURUGAPPA	GAMMON
VARDHMAN STEEL	MAHINDRA N MAHINDRA
MUSIGMA	GRAVITA
CENTRAL PARK	NESTLE
MINDAS	TATA TELESERVICES
BIYANI CEMENT	DELOITTE
CUMMINS	WELSPUN
CAIRN INDIA LIMITED	ZS ASSOCIATES
LNT ECC	LND HED
SAINT GLOBIN	ZTE
L&T LTD.	CAMBRIDGE CLASSES
AREVA	BOCI
KEC INTERNATIONAL	MARUTI SUZUKI INDIA LTD
PETRON GROUP	MEWAR UNIVERSITY
LOVELY PROFESSIONAL UNIVERSITY	DENA BANK
BOSCH	SHREE CEMENT

EXCIDE	AAKASH INSTITUE
HPCL	

PAY PACKAGE DISTRIBUTION 2009-10				
Pay bracket (Rs. Lacs)	2.4-3.5	3.5-4.0	4.0-4.5	4.5-9.3
No. of students placed	251	85	84	71

### Placement summary for last five years for UG programme

Despite the worldwide downturn in the corporate sector the placements in our institution have been increasing rapidly to reach the highly sought after 100% mark. 100(30%) students have proudly claimed double job offers till date. In 2005, 91.1% of students were placed, after that we have achieved two time continuously pinnacle of 100%. In the previous year percentage placement was 99.11% but this year we have again reached 100% yet again. Even though we are still awaiting the results of as many as 4 companies. We have set new benchmark for our institution by maintaining the position of perfect placement at our institution.

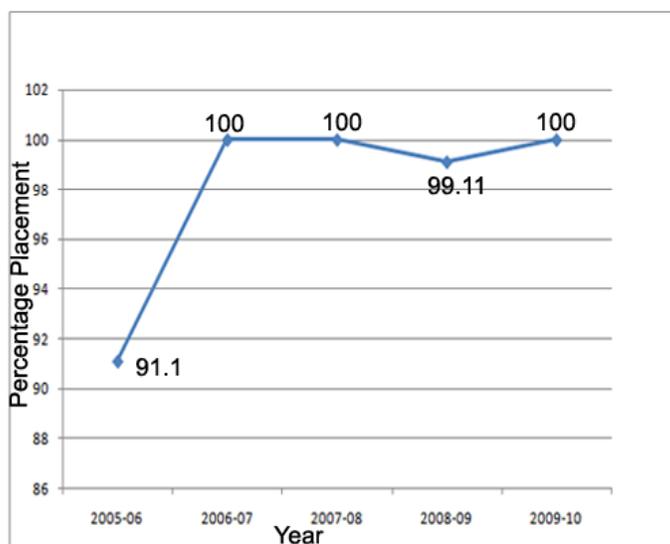


Fig. 4 Percentage selection (year wise) for UG programme

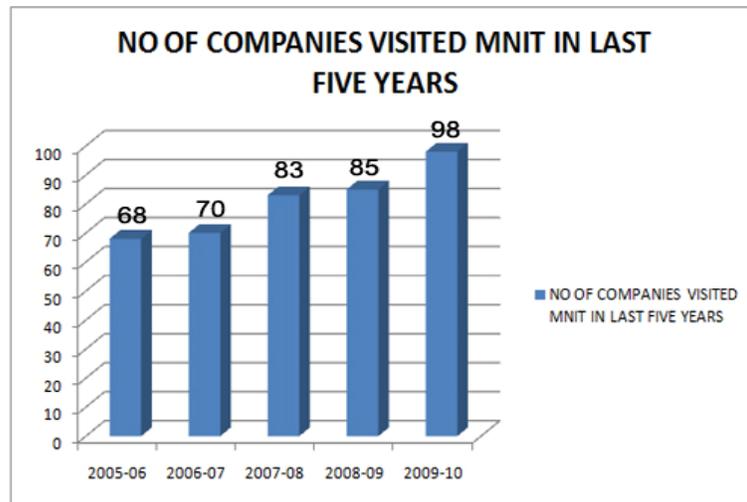


Fig. 5: No. of companies (year wise)

### Number of companies visited MNIT Jaipur:

As shown in Fig 5 despite of worldwide downturn, we have the maximum number of recruiters this year, the most for any academic calendar. Ninety Eight companies visited our campus, in placement session 2009-10. As MNIT expands its horizons and goes out to the world, it seems that there is no looking back as the number of companies pouring into the institute, despite great economic depression, is very large. As the reputation of the institution scales new heights in the light of its previously placed students. The number of companies visited in the last 5 years can be viewed from the current placement statistics.

### Maximum pay package offered in last five years (Domestic)

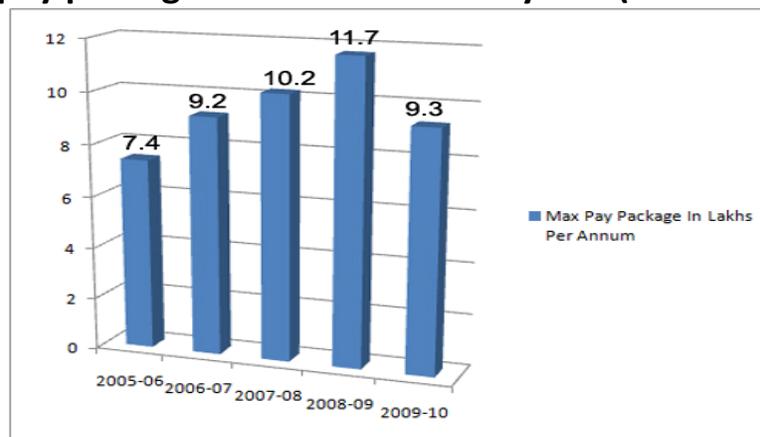


Fig. 6: Maximum pay package in last five years.

Under the present circumstances of recession the pay packages took a hit, despite all these adversities we stood against the going trend and fetched some good offers. As shown in Fig. 7, starting from Rs. 7.4 lakhs/annum in 2005-06, and with a domestic package of 11.7 lakhs/annum we have done sufficient to compliment the previous years with a healthy domestic package of 9.3 lakhs/annum. With the increase in the inflow of

MNC's into our institution every year, the talent and skill of students is better recognized, this figure is expected to rise further.

### Percentage selection in IT/Non IT sectors in last five years

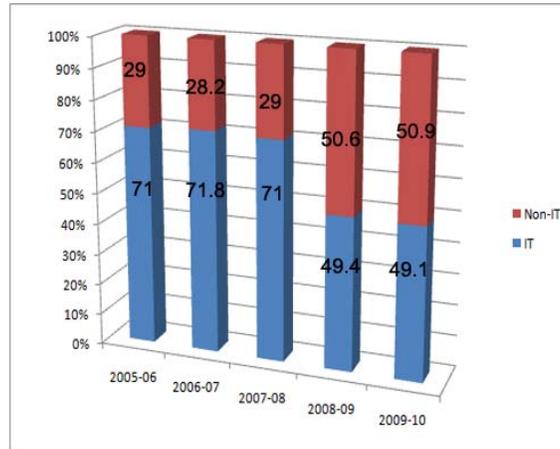


Fig.7 Percentage selection in IT/Non IT sectors (year wise)

Over all percentage of placements for IT and non IT sectors in the last five years has been shown in the Fig 7. The year 2005-06, 71% of the student opted for IT sector, which remained the same for the next 2 years as well. Since last year there been a change in trend and only 49.4% students opted to go in IT sector. Following the same trend the students have shown keen interest to pursue their carriers in their field itself. As the result this year as well 49.1% students selected IT and rest Non-IT.

From graphs it is very clear that students are very much inclined towards non IT sector, because of better carrier growth and job satisfaction. Worldwide down turn, has very much effected the IT sector. These happenings worked as deterrent for students.