

1.0 INTRODUCTION

National Institute of Technology Jalandhar was established in the year 1987 as Regional Engineering College and was given the status of National Institute of Technology (Deemed to be University) by the Government of India under the control of Ministry of Human Resource Development, New Delhi on October 17, 2002.

As National Institute of Technology, the institute has a responsibility of providing high quality education in Engineering and Technology to produce competent technical manpower for the country. The institute offers B Tech program in nine disciplines of Engineering and Technology along with research programs leading to M.Sc, M Tech and Ph D. The institute acquires a national character having 50% student intake from the State of Punjab and the rest from other states/union territories of the country.

1.1 Mission Statement

To become a leading and unique institution of higher learning, offering state-of-the-art education, research and training in engineering and technology to students who are able and eager to become change agents for the industrial and economic progress of the nation. To nurture and sustain an academic ambience conducive to the development and growth of committed professionals for sustainable development of the nation and to accomplish its integration into the global economy.

1.2 Objectives

To build a rich intellectual potential embedded with interdisciplinary knowledge, human values and professional ethics among the youth, aspirant of becoming engineers and technologists, so that they contribute to society and create a niche for a successful career

1.3 Education System

- To develop technical human resource of excellence suitable for global requirements
- To ensure good quality academic and industrial research programmes in different areas of engineering, technology and sciences
- To generate industry-institute synergy for shaping technical education to meet the requirement of industry

1.4 New Initiatives

- M Sc program in Mathematics with an intake of 20 students.
- In view of the post graduate programs started in Engineering, Sciences and Management except Leather Technology, institute has already advertised to induct more than 200 teaching positions, for which an Interview shall be conducted in the near future.
- Implementation of OBC reservation in admission in a phased manner w.e.f. July 2008.

2.0 AN OVERVIEW

2.1 Historical Background

National Institute of Technology Jalandhar was established in the year 1987 as Regional Engineering College and was given the status of National Institute of Technology (Deemed to be University) by the Government of India under the control of Ministry of Human Resource Development, New Delhi on October 17, 2002. Since its attaining the status of National Institute of Technology in October 2002, the institute is marching ahead and building on its strengths like modernizing the institutes laboratories, upgrading the faculty sponsoring them for higher studies & short terms training programmes , strengthening interface with industries leading to more and more jobs offers for our students, modernization of the institute library, planning the new institute buildings and so on.

2.2 Location

Jalandhar is an important railway station on Delhi- Amritsar sections of Northern Railways and is situated at about 370 kms north of Delhi. It is also well connected through road route (situated at NH-1). It is renowned industrial centre for sports goods, leather goods and hand tools. The institute is located on GT road, Bye-Pass (leading towards, Amritsar). It is situated at a distance of about 12 kms from Jalandhar Bus Stand, 10 kms from Jalandhar city Railway station and 15 kms from Jalandhar cantt. Railway station and is well accessible through local buses and auto-rikshaw.

2.3 Campus

The institute campus is spread over an area of 154 acres on picturesque land scape. It is a harmonious mix of natural beauty with state of art architecture. The campus is fully residential and having sufficient number of residents for faculty and staff and hostels for students. There are seven numbers of boy's hostels and three number of girls hostels. In the campus which can accommodate 1650 boys and 600 girls respectively. Besides this the campus is also having a cricket field, a football ground, volley ball & tennis court, badminton hall, track, table tennis tables and ancillary arrangements for sports activity. In addition to that one Table Tennis table is provided in each hostel. The campus is self contained having shopping complex, computerized Banks, Post office, Faculty Club, Students Activity Center, Guest House, Dispensary and other facilities essential for community living.

2.4 Administration

Dr B R Ambedkar National Institute of Technology, Jalandhar is an autonomous institution under the aegis of Central Government. The institute functions under the overall control and guidance of the Board of Governors, the other authorities of the institute are the Finance Committee, Building and Works Committee and the Senate. The constitutions of the Board of Governors, Finance Committee, Building Works and other Committees are given at Annexure 11.2, 11.3 respectively. The administration of various departments /centers in the institute is looked after by respective head of the departments/Prof-in-charge.

2.5 Academic Programs

In addition to Bachelor's programmes in Engineering, institute also offers Master's and Doctorate programmes in Engineering and Sciences. The academic programs offered by the institute are listed below:-

1. Bachelor of Technology(BTech)
2. Master of Technology (MTech)
3. Master of Technology (Part-time)
4. Master of Science(MSc)
5. Doctorate of Philosophy(PhD)

Academic session

Odd Semester 27th July, 2010 to 17th December , 2010
Even Semester 11th January 2011 to 29th May, 2011

Working hours

During the period under review the institute observed the working hours as under:

Working hours	8.30 a m	to	5.30 p m
	(Monday to Friday)		
Lunch break	12.30 p m	to	1.30 p m

2.6 Courses Offered

The nine major departments have been established with the objective to train the students vigorously in their respective disciplines. Besides these, three Sciences Departments (Physics, Chemistry & Mathematics) and Humanities & Management department coordinates with major departments and provide inputs to the students in addition to their individual identity. More over there is a computer center to cater to the computational needs of the students. The institute has also established center of Training and Placement which arranges in-industry training and campus interviews for the students. The courses offered by the institute are given at Section 4.1

2.7 Admission Procedure

Under Graduate Programme

The admission to undergraduate programmes is provided on the basis of the merit of AIEEE conducted by CBSE through the Central Counselling Board Constituted by MHRD, Government of India. The reservation policy is as per the decision of the MHRD. The eligibility for admission under the home state quota is 10+2 pass in the discipline approved by AICTE from an institution located in Punjab.

Post Graduate Programme

Ph D Programme

Ph D Programmes for Regular Candidates

Master's degree in Engineering/Technology in relevant areas with first class or minimum 60% marks (CGPA 6.5) with valid GATE score, or Master's degree in appropriate branch of Science/Humanities/Social Sciences with first class or minimum 60% marks (CGPA 6.5) with valid GATE score or UGC/CSIR/NET qualified.

Ph D Programmes for Internal Candidates

Faculty/Technical/Scientific staff of NITJ having teaching/industrial experience of more than two years and possessing the same academic qualifications as that for PhD full time scheme are eligible to apply for PhD Programmes. A valid GATE score of UGC/CSIR fellowship is not required.

Ph D Programmes for External Candidates

External candidates specified by Industry/Institute having R & D facility recognized by DST or equivalent/NITJ with industrial experience of two years or more and having same academic qualifications as that for "Ph D programmes for regular candidates" are eligible to apply for PhD Programmes. The valid GATE score of UGC/CSIR fellowship is not required.

Ph D Programmes for Staff under Projects

The project staff working under the projects sponsored by MHRD/DST/UGC or some other government agency and coordinated by the institute's faculty as certified by the Principal Investigator/Coordinator and having the same academic qualifications as that for Ph D Full Time programme are eligible to apply for admission to Ph D Programme provided an adequate financial support for the period of Ph D degree is ensured from project employment or other sources. A valid GATE score of UGC/CSIR fellowship is not required.

2.8 Students

Detail of student's 2005 batch pass out during 2009, at section 4.3

2.9 Examination and Evaluation

The academic system at NIT, Jalandhar is framed on a credit based semester examination system. The credit system envisages a continuous evaluation of student's performance, and provides flexibility for academic progress at an optimum pace based on individual ability and convenience, subject to the constraint of the minimum requirements for continuation in the academic programme. (Details are provided under section 4.8)

2.10 Placement

Placement of final year students (2007-2011 batch)

Campus Interviews were arranged for the final year B.Tech students. A large number of reputed Industrial houses in the country visited the Institution and selected/short listed the final year students as Engineers/Management Trainees. Some of the Companies invited the students to their Corporate Offices for the interviews. (Details are provided under section 4.9)

2.11 Games and Sports

The students entering in the Institute are required to undergo the following non-credit mandatory requirements towards completion of their degree:-

1. N.S.O. (National Sports Organization)
2. N.S.S. (National Service Scheme)

The students have to opt for one of these activities based on the enrolment procedure and their choice. A total of 100 hours of prescribed activities are to be completed after registration in the first year. In case the requirements are not met in the first year, the same shall be completed in the second year i.e. end of the 4th Semester. If a student does not obtain a satisfactory grade in the respective registered course within the first two years of his/her stay at the Institute, he/she will not be registered for the higher semester after second year.

The students will be satisfactorily allowed to register in sports activities of the institute for completing their National Sports Organization requirement in the first year. (Details are provided under section 4.6)

2.12 Staff Position

Sanctioned & Filled posts detail (faculty & staff) as on 31.3.2011

Department/ Centre	Number of Employees							
	Teaching		Non-Teachmg				Total	
	Sancti oned	Actual	Technical		Non-Technical		Sanctio ned	Actual
Sanctio ned			Actual	Sanctio ned	Actual			
Director	01	01						
Professor	30	16						
Asstt. Professor	59	25						
Lecturer	118	60						
Registrar					01	1		
Deputy Registrar					03	--		
Assistant Registrar					03	0		
Chief Medical Officer					01	0		
Senior Medical Officer					02	2		
Assistant Engineer					03	0		
Office Supdt.					05	2		
J.E.					02	2		
Sr. Assistant					05	5		
Sr. Scale Stenographer					01	1		
Hospitality Supervisor					01	1		
Computer Operator					03	3		
Jr. Scale Stenographer					02	2		
Steno-Typist					11	11		
Clerks/Jr. Assistant					21+6	21		

Store Keepers					04	03		
EPABX Operator					03	3		
Receptionist					01	1		
Pharmasist-cum-Dispensor					04	00		
Nurse					04	0		
Dresser					01	1		
Peon/Attendant					17	17		
Chowkidar					05	05		
Sweepers					04	4		
Store Helper					03	03		
Secretary					01	0		
Stenographer					02	0		
Librarian			01	01				
Workshop Supdt.			01	01				
Dy Librarian			01	--				
Assistant Librarian			01	--				
Library Information Assistant			04	--				
Library Assistant			01	01				
System Analyst			01	01				
Sr. Draftsman			01	1				
Tracer			01	1				
Care Taker			01	1				
SAS(Student Activities Sports Officer)			01	0				
Physical Training Officer			01	1				
Asstt. Instructor Workshop			07	7				
Skilled Assistant Workshop			02	02				
Skilled Assistant			16	15				
Lab Technician (Health)			01	1				
Tech. Asstt.			10	04				
Lab Assistant			01	01				
Library Attendant			04	4				
Lab. Attendant/Helper			23	23				
Driver			04	04				
Carpenter			01	01				
Electrician			02	02				
Electrician-cum Meter Reader			01	01				
Sub-Station Attendant			01	01				
Plumber			01	01				
Plumber Helper			01	01				
Sewer Man			01	01				
Book Binder			01	1				
Workshop Helper/Attendant			10	10				
Duplicate Machine Operator			04	04				
Sports attendant			02	02				
Total	208	102	108	94	119	88	435	284

List of Administrative Staff Members

S.No.	Name	Designation
1.	Sh A L Sangal	Registrar
2.	Sh Rajwant Singh(Retired on 31.5.2010)	Dy. Registrar
3.	Sh Gurdas Ram	Supdt.
4.	Sh Parbodh Sharma	Supdt.
5.	Sh Anand Kumar	Sr. Asstt.
6.	Sh Rakesh Kakkar	Sr. Asstt.
7.	Ms Harsh Malhotra	Sr. Asstt.
8.	Ms Sarita	Sr. Asstt.
9.	Sh Chaman Lal	Sr. Asstt.
10.	Ms Poonam Arora	Sr. Sc. Steno
11.	Sh Jatinder Singh	Jr. Sc. Steno
12.	Sh Pankaj Sharma	Jr. Sc. Steno
13.	Sh Bhisham Arora	Steno Typist
14.	Ms Sunita Rani-I	Steno Typist
15.	Ms Parveen Kumari	Steno Typist
16.	Sh Balbir Singh	Steno Typist
17.	Sh Ranjit singh	Steno Typist
18.	Ms Kulwinder Kaur	Steno Typist
19.	Ms Asha Rani	Steno Typist
20.	Sh Amarjit Singh	Steno Typist
21.	Sh Jai Dev	Steno Typist
22.	Sh Hardeep Singh	Steno Typist
23.	Ms Sunita II	Steno Typist
24.	Sh Avtar Chand	Driver
25.	Sh Satish Walia	Driver
26.	Sh Gurdeep Singh	Driver
27.	Sh Sant singh	Driver
28.	Sh Rajiv Arora	Jr. Asstt.
29.	Sh Milap Dogra	Jr. Asstt.
30.	Sh Sudesh Kumar	Jr. Asstt.
31.	Ms Sangeeta	Jr. Asstt.
32.	Ms Raminder kaur	Jr. Asstt.
33.	Ms Anita	Jr. Asstt.
34.	Ms Anju	Jr. Asstt.
35.	Sh M.S.Bhalla	Jr. Asstt.
36.	Sh Suresh Kumar	Clerk
37.	Ms Anshu	Clerk
38.	Ms Dimple	Clerk
39.	Ms Pratibha	Clerk
40.	Sh Harmesh Kumar Bhatt	Clerk
41.	Sh V.N.Khanna	Clerk
42.	Sh Rajesh Sharma	Clerk
43.	Sh Sanjeev Kumar	Clerk
44.	Sh Yash Pal	Clerk
45.	Sh Abhay Sharma	Clerk
46.	Ms Nisha Shukla	Clerk
47.	Sh Bhupinder Singh	Clerk
48.	Sh Sunil Kumar	Clerk
49.	Ms Renu	Receptionist
50.	Sh Sansar Chand	Store Keeper
51.	Sh Pargat Singh	Store Keeper
52.	Sh Narinder Kumar	Store Keeper
53.	Ms Soma	DMO
54.	Sh Madan Lal	DMO
55.	Sh Ramesh Chand	DMO

56.	Sh Ganesh Parsad	DMO
57.	Sh Umesh Ram	Attendant
58.	Sh Rajinder Kumar	Attendant
59.	Ms Rajni	Attendant
60.	Sh Kulwant Rai	Attendant
61.	Sh Jagdish Kumar	Attendant
62.	Sh Mathura parsad	Attendant
63.	Sh Ashok Kumar	Attendant
64.	Sh Mohd. Alim	Attendant
65.	Sh Krishan Gir	Attendant
66.	Sh Palvinder Singh	Attendant
67.	Sh Tejvinder Singh	Attendant
68.	Sh Arun Ram	Attendant
69.	Sh Satnam Singh	Attendant
70.	Sh Ram Pal	Attendant
71.	Ms Balwinder Kaur	Attendant
72.	Sh Parvinder Kumar	Attendant
73.	Ms Taro Devi	Attendant
74.	Sh Ranbir Singh	Store Helper
75.	Sh J.S.Rana	Store Helper
76.	Sh Tejinder Singh	Store Helper
77.	Sh Ram Parsad	Chowkidar
78.	Sh Kamta Parsad	Chowkidar
79.	Sh Bhullar Parsad	Chowkidar
80.	Sh Ram Nath	Chowkidar
81.	Sh Ram Kewal	Chowkidar (against Store Helper)
82.	Ms Raj Rani	Sweeper
83.	Ms Sudershna	Sweeper
84.	Sh Santokh Kumar	Sweeper
85.	Sh Sandeep Kumar	Sweeper

List of Technical Staff

Sr.No.	Name	Designation
1.	Sh S P Thapar	Workshop Supdt
2.	Ms Sarbrinder Kaur	Librarian
3.	Ms Daljit Kaur	System Analyst
4.	Sh Tarun Sehgal	Medical Officer
5.	Ms Renu Verma	Medical Officer
6.	Sh Manjit Singh	Tech Asstt
7.	Sh Jaswant Singh	Tech Asstt
8.	Sh Pardeep Kumar	Tech Asstt
9.	Sh Avtar Singh	Tech Asstt
10.	Sh Manjeet Singh	Sr Draftsman
11.	Sh Harpreet Singh	JE (PH)
12.	Sh Anup Gupta	JE (Civil)
13.	Sh R K Shukla	Asstt Instructor
14.	Sh Sukhwinder Singh I	Asstt Instructor
15.	Sh Didar Singh	Asstt Instructor
16.	Sh Bahadur Chand	Asstt Instructor
17.	Sh Gurbachan Singh	Asstt Instructor
18.	Sh Sukhwinder Singh II	Asstt Instructor
19.	Sh Rachhpal Singh	Asstt Instructor
20.	Sh Subhash Yadav	Computer Operator
21.	Sh Ashwani Kumar	Computer Operator
22.	Sh Hemant Thapar	Computer Operator
23.	Sh S K Sayal	PTO
24.	Sh Sukhminder Singh III	Skilled Asstt

25.	Sh Ish Kumar	Skilled Asstt
26.	Sh Navneet Sharma	Skilled Asstt
27.	Sh Kamoj Kumar	Skilled Asstt
28.	Sh Surinder Singh I	Skilled Asstt
29.	Sh Vijay Kumar	Skilled Asstt
30.	Sh Ramesh Kumar	Skilled Asstt
31.	Sh Surinder Singh II	Skilled Asstt
32.	Sh Mahesh Kumar	Skilled Asstt
33.	Sh Gurpreet Singh	Skilled Asstt
34.	Sh Ravinder Singh	Skilled Asstt
35.	Sh Ravi Kumar	Skilled Asstt
36.	Sh Gian Chand	Skilled Asstt
37.	Sh Malkiat Singh	Skilled Asstt
38.	Sh Jagir Singh	Skilled Asstt
39.	Sh Darshan Ram	Skilled Asstt
40.	Sh Ranjit Singh	Skilled Asstt
41.	Sh Hardial Singh	Skilled Asstt
42.	Ms Chhinderpal Kaur	Lab Assistant
43.	Sh Sunil Joshi	Tracer
44.	Sh Amit Kumar	Care Taker
45.	Sh R K Bhardwaj	Lib Asstt
46.	Sh Bikram Chand	Lib Attd
47.	Sh Davinder Kumar	Lib Attd
48.	Sh Mani Ram Yadav	Lib Attd
49.	Ms Jeevan Lata	Lib Attd
50.	Sh Kulwinder Singh	Book Binder
51.	Ms Baljeet Kaur	Dresser
52.	Sh Gurnam Singh	Lab Tech (Health)
53.	Ms Sukhwinder Kaur	EPABX Operator
54.	Sh Rajinder Pathak	EPABX Operator
55.	Sh Tirath Ram	EPABX Operator
56.	Sh Manjit Singh	Electrician
57.	Sh Davinder Singh	Electrician
58.	Sh Shinder Pal Singh	Carpenter
59.	Sh Joga Singh	Plumber
60.	Sh Satish Kumar	Plumber Helper
61.	Sh Balkar Singh	Electrician-cum-Meter Reader
62.	Sh Rajbir Singh	Guest House Supervisor
63.	Sh Sudhir Kumar	Lab Attd
64.	Sh Tarsem Lal	Lab Attd
65.	Sh Nachhatar Singh	Lab Attd
66.	Sh Paramjit Singh	Lab Attd
67.	Sh Ajay Kumar	Lab Attd
68.	Sh Mohinder Pal	Lab Attd
69.	Sh Swinder Singh	Lab Attd
70.	Sh Kuldeep Singh	Lab Attd
71.	Ms Manjeet Kaur	Lab Attd
72.	Ms Aruna Rani	Lab Attd
73.	Mr Rajinder Kumar	Lab Attd
74.	Sh Khushpal Singh	Lab Attd
75.	Sh Sukhminder Singh	Lab Attd
76.	Ms Bimla	Lab Attd
77.	Sh Vijay Kumar I	Lab Attd
78.	Sh Tirlok Singh	Lab Attd
79.	Sh Harvinder Singh	Lab Attd
80.	Sh Harendra Ram	Lab Attd
81.	Sh Malkit Singh	Lab Attd
82.	Sh Sher Singh	Lab Attd

83.	Sh Gurmail Singh	Lab Attd
84.	Sh Shiv Kumar	Lab Attd
85.	Ms Sunita Rani	Lab Attd
86.	Sh Tarsem Singh	Sports Attd
87.	Sh Udhay Bhan	Sports Attd
88.	Sh Talwinder Singh	Sub Stn Attd
89.	Sh Surinder Kumar	Sewerman
90.	Sh A K Tiwari	W/Attd/Helper
91.	Sh Daljit Singh	W/Attd/Helper
92.	Ms Shakuntla	W/Attd/Helper
93.	Sh Ram Kirpal	W/Attd/Helper
94.	Sh R K Mishra	W/Attd/Helper
95.	Sh Sunil Kumar	W/Attd/Helper
96.	Sh Vijay Kumar II	W/Attd/Helper
97.	Sh Dev Dutt	W/Attd/Helper
98.	Sh Bikram Singh	W/Attd/Helper
99.	Sh Jaswant Singh	W/Attd/Helper

2.13 Notable Achievements

(Details at sections 10.2)

3.0 THE STAFF

3.1 Academic Staff (Teaching)

Head of the Departments

Sr No.	Department	Name
1.	Chemistry	Dr B. S. Kaith
2.	Mathematics	Dr Jaspal Singh
3.	Physics	Dr Arvinder Singh
4.	Chemical Engineering	Dr M K Jha
5.	Bio Technology	Dr A K Jana
6.	Civil Engineering	Dr Partap Singh
7.	Computer Centre	Dr Ajay Sharma
8.	Computer Science and Engineering	Dr Ajay Sharma
9.	Electronics and Communication Engineering	Dr R K Sarin
10.	Humanities and Management	Mr Sarabjit Singh Bedi
11.	Instrumentation and Control Engineering	Dr R Jha (upto July, 2010)
13.	Industrial & Production Engineering	Dr Arvind Bhardwaj
14.	Mechanical Engineering	Dr Joseph A. Vaz
15.	Textile Technology	Dr J. N. Chakraborty
16.	Centre of Training and Placement	Dr P K Chatley

Committees

Besides above the institute has planned various other activities, which were accomplished through committees listed below during the period under report.

S No	Name of the Committee	Chairman
1.	Discipline committee of senate	Professor S B S Mishra
2.	Senate committee on academic affairs	Professor S Ghosh
3.	Core committee on curriculum	Professor S B S Mishra
4.	Institute Purchase committee	Professor R Jha
5.	House Allotment committee	Professor S Ghosh
6.	Library committee	Professor N C Kothiyal
7.	Institute budget committee	Professor S B S Mishra
8.	Convocation committee	Professor R Jha
9.	Mock Accreditation Committee	Professor P K Chatley

10.	Committee for B Tech admissions and AIEEE	Professor A L Sangal
11.	Office automation and computerization	Professor A L Sangal
12.	Alumni activities	Professor Arvinder Singh
13.	TEQIP CELL	Professor Rakesh Chandra
14.	HRD and Hindi Cell	Professor A L Sangal
15.	Clubs and Hobbies	Professor N C Kothiyal
16.	Sports	Professor Rakesh Chandra

Faculty and staff

The faculty and staff of each department/centre is run by respective Head of the department/ Prof In – charge along with faculty members. They plan the curriculum and provide essential inputs to the students in the related area. The faculty and staff and their academic qualifications are listed as under:

Departments

Biotechnology

Sr. No.	Name	Designation
1.	Dr. A. K. Jana	Associate Professor
2.	Mr. Nitin Basak	Assistant Professor

Chemical Engineering

Sr. No.	Name	Designation
1.	Dr.M.K.Jha	Professor and Head
2.	Dr.Apurba Dey	Associate Professor (on lien at NIT Durgapur)
3.	Dr.Ajay Bansal	Associate Professor
4.	Ms.Renu Gupta	Associate Professor
5.	Ms.Sangeeta Garg	Associate Professor
6.	Ms. Poonam Gera	Associate Professor
7.	Mr.N.K.Srivastava	Assistant Professor
8.	Mr.S. Bajpai	Assistant Professor
9.	Ms.Rubal Preet	Assistant Professor (On Study Leave)
10.	Mr. Jatinder Kumar	Assistant Professor (On Study Leave)

Chemistry

Sr. No.	Name	Designation
1.	Professor R P Rastogi	Visiting Professor
2.	Dr. S B S Mishra	Professor
3.	Dr. B S Kaith	Professor & Head
4.	Dr N C Kothiyal	Professor
5.	Dr Harsh Kumar	Assistant Professor
6.	Dr Jaspreet Rajput	Assistant Professor
7.	Dr. Rajeev Jindal	Associate Professor
8.	Dr. Sangeeta Obrai	Assistant Professor
9.	Ms Shivani Jindal	Assistant Professor
10.	Ms Rekha Gaba	Assistant Professor

Mathematics

Sr. No.	Name	Designation
1	Dr. Sheo Kumar	Professor & Head
2	Dr. Jaspal Singh	Professor
3	Dr. Damanjeet Kaur	Associate Professor
4	Mrs. Geeta Pratap	Associate Professor
5	Mrs. Alka Bhalla	Associate Professor
6	Dr. Raghav.R. Sinha	Assistant Professor

Physics

Sr. No.	Name	Designation
1	Dr Arvinder Singh	Professor & Head
2	Dr Sarabjeet Singh	Professor
3	Dr H M Mittal	Associate Professor
4	Dr Rohit Mehra	Assistant Professor
5	Ms Jyoti Bharj	Assistant Professor
6	Dr Harleen Dahiya	Assistant Professor
7	Dr Praveen Malik	Assistant Professor

Civil Engineering

Sr. No.	Name	Designation
1	Dr.A.K.Agnihotri	Professor
2	Dr.A.P.Singh	Professor
3	Dr.Partap Singh	Professor
4	Dr.S.P.Singh	Professor
5	Sh.Davinder Singh	Assistant Professor
6	M/s Shailja Bawa	Assistant Professor
7	Mr Rizwan Ahmed Khan	Assistant Professor

Computer Science and Engineering

Sr. No.	Name	Designation
1	Prof. Ajay Sharma	Professor
2	Prof. A. L. Sangal	Professor
3	Dr. Harsh K Verma	Professor
4	Renu Dhir	Associate Professor
5	D K Gupta	Associate Professor
6	Geeta Sikka	Assistant Professor
7	Rahul Aggarwal	Assistant Professor
8	Rajneesh Rani	Assistant Professor

Electronics and Communication Engineering

Sr. No.	Name	Designation
1	Dr.R.K.Sarin	Professor & Head
2	Dr.Arun Khosla	Associate Professor
3	Mrs.Mamta Khosla	Associate Professor
4	Sh.B.S.Saini	Asstt Professor
5	Sh.Ramesh Sunkaria	Asstt Professor
6	Sh. Ashish Raman	Asstt Professor
7	Ms Deepti Kakkar	Asstt Professor
8	Ms. Indu Saini	Asstt Professor
9	Ms Neetu Sood	Asstt Professor

Humanities and Management

Sr. No.	Name	Designation
1	Prof S J S Bedi	Associate Professor & Head
2	Mr Jagwinder Singh	Assistant Professor
3	Dr Kumar Parag	Assistant Professor
4	Mr Aditya Prakash	Assistant Professor
5	Dr Sanjeev Gupta	Assistant Professor

Instrumentation and Control Engineering

Sr. No.	Name	Designation
1	Dr R Jha	Professor and Head (Upto July)
2	Dr A K Jain	Associate Professor
3	Mr Narinder Singh	Associate Professor
4	Dr Dilbag Singh	Associate Professor
5	Mr S K Pahuja	Associate Professor
6	Mrs Roop Pahuja	Associate Professor
7	Mrs Sheela Tiwari	Assistant Professor
8	Mrs Paramjit Kaur	Assistant Professor
9	Mr Rajesh Singla	Assistant Professor
10	Mr Kuldeep Singh	Assistant Professor

Industrial & Production Engineering

Sr. No.	Name	Designation
1	Dr.Arvind Bhardwaj	Professor
2	Dr.R.K.Garg	Professor
3	Dr.Rajiv Sharma	Associate Professor
4	Dr.Vishal S Sharma	Associate Professor
5	Mr.Ajay Gupta	Associate Professor
6	Mr.R.K.Bansal	Associate Professor
7	Mr.Sarabjit Singh Bal	Associate Professor
8	Mr. Anish Sachdeva	Assistant Professor
9	Mr.Lakhwinder Pal Singh	Assistant Professor

Mechanical Engineering

Sr. No.	Name	Designation
1	Dr Joseph Anand Vaz	Professor& Head
2	Dr. Rakesh Chandra	Professor
3	Dr Subhash Chander	AssociateProfessor
4	Sh Ajay Trehan	Assistant Professor
5	Sh Rajeev Kukreja	Associate Professor
6	Dr. Pramod Kumar	AssociateProfessor
7	Dr R.S. Bharj	AssociateProfessor
8	Sh D.K. Shukla	Assistant Professor
9	Sh Raman Bedi	Assistant Professor
10	Sh S.K.Tiwari	Assistant Professor

Textile technology

Sr. No.	Name	Designation
1	S.Ghosh	Professor
2	J N Chakraborty	Professor & Head
3	S.K.Sinha	Associate Professor
4	A.Mukhopadhyay	Associate Professor
5	A.Chatterjee	Associate Professor
6	N.Bhowmick	Associate Professor
7	M D Roy	Associate Professor
8	A K Choudhary	Associate Professor
9	V K Midha	Associate Professor
10	Monica Sikka	Asstt.Professor
11	K V P Singh	Asstt.Professor

Centres**Computer Centre**

Sr. No.	Name	Designation
1	Dr.Ajay Sharma	Professor Incharge
2	Mrs Daljeet Kaur	System Analyst

Training and Placement

Sr. No.	Name	Designation
1	Dr.P.K.Chatley	Professor
2	Sh.Rajiv Trehan	Assistant Professor

Other Facilities**Library**

Sr. No.	Name	Designation
1	Sarbrinder Kaur	Librarian

Workshop

Sr. No.	Name	Designation
1	Sh S P Thapar	Workshop Supdt

Sports

Sr. No.	Name	Designation
1	Dr Gurmej Singh	Associate Professor
2	Sh S K Syal	Physical Training officer

Administrative and Other staff

The general administration of the institute is as under

General Administration

Sr. No.	Name	Designation
1	Dr A L Sangal	Registrar
2	Dr. Rohit Mehra	Deputy Registrar

Hostel Administration

There are 7 boys and 2 girls' hostels which are looked after by respective wardens. However the overall administration rests with the chief warden. The hostel administration is looked after by the faculty as under:

Sr. No.	Name	Designation
1	Dr. S K Sinha	Chief Warden and Proctor
2	Dr Ajay Bansal	Deputy Chief Warden and Warden Hostel III
3	Mr Vinay Midha	Warden Hostel I
4	Mr Subash Chander	Warden Hostel II
5	Mr S Bajpai	Warden Hostel IV
6	Mr Kuldeep Singh	Warden Hostel V
7	Dr. Aditya Parkash	Warden Hostel VI
8	Dr. Anish Sachdeva	Warden Hostel VII
9	Dr. Jaspreet Rajput	Warden Hostel GH-I
10	Ms. Daljit Kaur	Warden Hostel GH-II

Dispensary

The institute health needs were looked after by the medical staff as under:

Sr. No.	Designation	Actual
1	SMO	02
2	Dresser	01
3	Lab Technician Health	01

Estate office

Sr. No.	Name	Designation
1	Mr. Harpreet Singh(Upto Sept,2010)	Estate office (officiating)
2	Dr B S Sani (October.2010)	Estate office (officiating)

3.2 Non-Academic Staff (Non-teaching)

Detail at Section 2.12

3.3 Training Status

31 faculty members attended various training programs/workshops etc during the report period.

3.4 Placement of staff for Academics excellence

No provision for long leave but they are allowed for short duration courses.

4.0 TEACHING PROGRAMMES

4.1 Courses Offered

Undergraduate Programmes

Four year Bachelor of Technology (B Tech) Programmes:

- Bio Technology
- Chemical Engineering
- Civil Engineering
- Computer Science and Engineering
- Electronics and Communication Engineering
- Industrial and Production Engineering
- Instrumentation and Control Engineering
- Mechanical Engineering
- Textile Technology

Post Graduate and Research Programmes:

Two year regular M Tech Programmes

- Chemical Engineering
- Computer Science and Engineering
- Control and Instrumentation Engineering
- Electronics and Communication Engineering
- Manufacturing Technology
- Mechanical Engineering
- Structural and Construction Engineering
- Textile Engineering and Management
- VLSI

Three and half year Part-time M Tech Programmes

- Computer Science & Engineering
- Civil Engineering
- Industrial & Production Engineering
- Material Science and Technology

Two year regular M Sc Programmes

- Chemistry
- Physics
- Mathematics

Ph D Programmes

The Institute offers Ph D programmes (Part Time and Full time) in all the disciplines.

4.2 Degree awarded during the year 2010-2011:**B Tech (2006 Batch)**

Sr.No.	Branch	No. of Degrees Awarded	
		2006 batch	2007 batch
1.	Chemical & Bio Engineering	31	41
2.	Civil Engineering	35	51
3.	Computer Science & Engineering	62	52
4.	Electronics & Communication Engineering	62	53
5.	Industrial Engineering	43	41
6.	Instrumentation & Control Engineering	52	54
7.	Mechanical Engineering	54	42
8.	Textile Technology	23	16
9.	Leather Technology/Bio Technology	02	21
TOTAL		363	371

M Tech (Full Time) 2008-2010

Sr.No.	Branch	No. of Degrees Awarded
1	Chemical & Bio Engineering	05
2	Civil Engineering	06
3	Computer Science & Engineering	09
4	Electronics & Communication Engineering	10
5	Instrumentation & Control Engineering	12
6	Material Technology/Manufacturing Tech.	02
7	Mechanical Engineering	05
8	Textile Technology	----
9	VLSI	06
TOTAL		55

M Tech (By Research)

Sr.No.	Branch	No. of Degrees Awarded
1	Chemical Engineering	
2	Computer Science and Engineering	
3.	Electronics & Communication Engineering	
4.	Mechanical Engineering	
TOTAL		

M Sc (2008-10)

Sr.No.	Branch	No. of Degrees Awarded
1	Physics	09
2	Chemistry	10
3.	Mathematics	03
TOTAL		22

Ph D

Sr.No.	Branch	No. of Degrees Awarded
1	Instrumentation & Control Engineering	
2	Mechanical Engineering	
3	Textile Technology	
TOTAL		

4.3 Admission Statistics-UG/PG Programmes, Course wise with sex, caste break-up

B TECH 2010 BATCH																													
S.No.	Branch	CCB	Open			OBC			SC			ST			MHRD			DASA			Non NIT			MEA			Total		
			B	G	T	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T	B	G	T			
1	CE		35	07	43	23	2	25	13	1	15	8	---	8	--	--	-	--	--	-	--	--	-	1	-	1	81	11	92
			01PH							1PH																			
2	CS		32	13	46	20	5	26	8		16	7	2	9	--	--	-	1	1	2	--	--	-	--	--	-	70	29	99
				1PH		1PH			1PH																				
3	EC		37	07	45	20	5	26	12	3	15	6	--	7	--	--	-	1	--	1	--	--	-	--	--	-	79	15	94
			1PH			1PH			1PH			1PH																	
4	IC			13	45	19	4	24	10	4	14		--	9	--	--	-	--	--	-	--	--	-	--	--	-	70	22	92
						1PH																							
5	ME		45	01	48	25		26	12	---	12	8	--	8	--	--	-	4	--	4	--	--	-	--	--	-	97	01	98
			2PH			1PH																							
6	TT		9	07	17		2	25	11	1	12	4	--	4	--	--	-	--	--	-	--	--	-	--	--	-	48	10	58
			1PH																										
7	BT			08	14	08	3	11	2	1	4	---	1	1	--	--	-	--	--	-	--	--	-	--	--	-	18	12	30
						1PH																							
8	CM		24	13	38	19	6	25		4	14	4	--	4	--	--	-	--	1	1	--	--	-	--	--	-	58	24	82
			1PH																										
9	IP			01	29	23	2	25	13	1	14	6	--	6	--	--	-	--	--	-	--	--	-	--	--	-	70	04	74
TOTAL			254	71	325	183	30	213	93	23	116	53	03	56	--	--	-	6	2	8	--	--	-	1	--	1	591	128	719

M TECH –2010 BATCH (Full Time)

Discipline	Sanctioned Intake	Total students Enrolled			SC Category			ST Category			OP Category			OBC/ SPON & NRI		
		B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
Chemical Engineering	25	05	02	07	--	--	--	--	--	--	04	02	06	01	--	01
Structural & Const. Engg.	25	07	01	08	01	--	01	--	--	--	06	01	07	--	--	--
Computer Sc. & Engg.	25	12	07	19	02	01	03	--	--	--	07	03	10	03	03	06
Electronics & Comm. Engg.	25	17	---	17	03	---	03	--	--	--	10	---	10	04	--	04
VLSI	10	08	---	08	01	---	01	--	--	--	05	---	05	02	--	02
Manufacturing Technology	25	10	01	11	02	01	03	--	--	--	06	---	06	02	--	02
Control & Inst. Engg.	25	14	03	17	02	01	03	--	--	--	08	02	10	04	--	04
Mechanical Engineering	25	07	01	08	---	----	----	--	--	--	05	---	05	02	01	03
Textile Engineering & Mgt.	25	10	03	13	---	---	----	--	--	--	08	02	10	02	01	03
Total		90	18	108	11	03	14	--	--	--	59	10	69	20	05	25

M TECH –2010 BATCH (Part Time)

	Sanctioned Intake	Total Students enrolled			SC Category			ST Category			OP Category			OBC/SPON & NRI		
		B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
Computer Sc. & Engg.	20	05	07	12	02	01	03	01	---	01	02	06	08	---	---	---
Indl. & Prod. Engg.	13	08	---	08	---	---	---	---	---	---	06	---	06	02	---	02
Textile Technology	20	03	02	05	---	---	---	---	---	---	02	02	04	01	---	01
Chemical Engg.	20	02	05	07	---	---	---	---	---	---	02	05	07	---	---	---
Total	73	18	14	32	02	01	03	01	---	01	12	13	25	03	---	03

M Sc –2010 BATCH

Discipline	Sanctioned Intake	Total students Enrolled			SC Category			ST Category			OP Category			OBC/SPON & NRI		
		B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
Chemistry	31	05	14	19	01	03	04	---	01	01	03	09	12	01	01	02
Physics	31	03	11	14	---	01	---	---	--	--	02	10	12	01	---	01
Mathematics	31	02	07	09	---	---	---	---	--	--	02	07	09	---	---	---
Total	93	10	32	42	01	04	05	---	01	01	07	26	33	02	01	03

Ph D –2010 BATCH (Full Time)

Discipline	Sanctioned Intake	Total students Enrolled			SC Category			ST Category			OP Category			OBC/ SPON & NRI		
		B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
Physics		---	----	-----	----	----	-----	---	--	---	---	---	---	---	---	---
Chemistry		---	----	-----	----	----	-----	---	--	---	---	---	---	---	---	---
Mathematics		---	----	-----	----	----	-----	---	--	---	---	---	---	---	---	---
Chemical Engineering		---	----	-----	----	----	-----	---	--	---	---	---	---	---	---	---
Civil Engineering		---	----	-----	----	----	-----	---	--	---	---	01	01	---	----	-----
Computer Sc. & Engg.		---	----	-----	----	----	-----	---	--	---	01	02	03	00	00	00
Electronics & Comm. Engg.		---	----	-----	----	----	-----	---	--	---	---	---	---	---	---	---
Industrial & Prod. Engg.		---	----	-----	----	----	-----	---	--	---	---	---	---	---	---	---
Inst. & Control Engg.		---	----	-----	----	----	-----	---	--	---	---	---	---	---	---	---
Mechanical Engineering		---	----	-----	----	----	-----	---	--	---	01	---	01	---	----	-----
Textile Engineering & Mgt.		---	----	-----	----	----	-----	---	--	---	---	---	---	---	---	---
Total		02	03	05	----	----	-----	---	--	---	02	03	05	---	----	-----

Academic Session: Odd Semester: 26th July,2010 to 16th December,2010 Even Semester: 10th January,2011 to 3rd June,2011

Ph D –2010 BATCH (Part Time)

Discipline	Sanctioned Intake	Total students Enrolled			SC Category			ST Category			OP Category			OBC/ SPON & NRI		
		B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
Physics		---	----	----	---	----	----	---	--	---	---	---	---	---	---	---
Chemistry		---	----	----	---	----	----	---	--	---	---	---	---	---	---	---
Mathematics		---	----	----	---	----	----	---	--	---	---	---	---	---	---	---
Bio Technology		---	----	----	---	----	----	---	--	---	---	---	---	---	---	---
Chemical Engineering		---	----	----	01	----	01	---	--	---	---	---	---	---	---	---
Civil Engineering		---	----	----	---	----	----	---	--	---	---	---	---	---	---	---
Computer Sc. & Engg.		---	----	----	---	----	----	---	--	---	---	01	01	---	---	---
Electronics & Comm. Engg.		---	----	----	---	----	----	---	--	---	01	---	01	---	---	---
Industrial & Prod. Engg.		---	----	----	---	----	----	---	--	---	02	---	02	---	---	---
Inst. & Control Engg.		---	----	----	---	----	----	---	--	---	---	---	---	---	---	---
Mechanical Engineering		---	----	----	---	----	----	---	--	---	01	---	01	---	---	---
Textile Engineering & Mgt.		---	----	----	---	----	----	---	--	---	---	---	---	---	---	---
Total		05	01	06	01	----	01	---	--	---	04	01	06	---	---	---

4.4 The Hostels

There are seven numbers of boy's hostels and two number and one number mega hostel for girls. In the campus which can accommodate 1650 boys and 600 girls respectively.

4.5 Scholarships/Assistance-ship

(Refer Annexure 11.9)

4.6 Games and Sports

1. SPECIAL REQUIREMENT FOR DEGREE:

The students entering in the Institute are required to undergo the following non-credit mandatory requirements towards completion of their degree:-

1. **N.S.O. (National Sports Organization)**
2. **N.S.S. (National Service Scheme)**

The students have to opt for one of these activities based on the enrolment procedure and their choice. A total of 100 hours of prescribed activities are to be completed after registration in the first year. In case the requirements are not met in the first year, the same shall be completed in the second year i.e. end of the 4th Semester. If a student does not obtain a satisfactory grade in the respective registered course within the first two years of his/her stay at the Institute, he/she will not be registered for the higher semester after second year.

The students will be satisfactorily allowed to register in sports activities of the institute for completing their National Sports Organization requirement in the first year.

Sports is an important activity for overall development of the students. It has to be carried out in order to promote spirit of Sportsmanship amongst the students and is essentially an activity, which encourages sense of healthy competition feeling of love and to work in unison. Further the sports calendar crowded with sporting games/events is promoting enthusiasm in the day-to-day campus life of the students. The Department of Physical Education and Sports is geared to achieve the following motives: -

- a) ***Healthy mind in a healthy body***
- b) ***Fit people Fit Nation***
- c) ***Make-sports a way of life.***

The institute at present is providing facilities in number of outdoor and indoor games to be the budding engineering students.

2. OUTDOORS GAMES FACILITIES (BOYS & GIRLS) - :

SR. NO.	OUTDOOR GAMES	FACILITIES AVAILABLE
1	Athletics	400 meter Standard Track & Field
2	Cricket	Standard Cricket ground
3	Football	Standard Football ground
4	Basket ball	Two Basket Ball Standard Cemented Courts with Full Flood Lights & Sitting Arrangement
5	Volley ball	Three Volleyball standard grounds with Full Flood Lights & Sitting Arrangement
6	Lawn Tennis	Two Lawn Tennis Cemented courts With Full Flood Lights

3. INDOOR GAMES FACILITIES (BOYS & GIRLS) - :

SR. NO.	INDOOR GAMES	FACILITIES AVAILABLE
1	Badminton	Indoor Badminton Hall with three Badminton courts & Lights
2	Table Tennis	T.T. Table is available in each hostel in addition to that Six tables are available in the Indoor Badminton hall with Lights.
3	Carom	Covered space is available in each hostel in addition to that Carom Boards are available in the Indoor Badminton Hall with Lights.
4	Chess	Covered space is available in each hostel in addition to that Chess Boxes are available in the Indoor Badminton Hall with Lights.

4. WEIGHT TRAINING GYM. FACILITY - :

1	Multipurpose Modern Training facilities	Weight training gymnasium is available in the students Activity Centre, fully equipped with Modern Weight Training equipments.
---	---	---

5. SPORTS ACHIEVEMENTS AT INTER - NIT's , IIT's & UNIVERSITIES LEVEL

Sr. No.	Name of Tournament	Game	Date	Position																		
1	Inter – Technology University Badminton (Men) Tournament 2010-10 held at N.I.T, Jalandhar	Badminton (Men)	12/11/10 to 13/11/10	Runner-up																		
	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Match Between</th> <th>Winner</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>NITJ V/s P.E.C, Chandigarh</td> <td>NITJ</td> </tr> <tr> <td>2.</td> <td>NITJ V/s Thapar Uni. Patiala</td> <td>Thapar Uni.</td> </tr> <tr> <td>3.</td> <td>NITJ V/s SLIET, Longowal</td> <td>NITJ</td> </tr> <tr> <td>4.</td> <td>NITJ V/s Thapar Uni. Patiala</td> <td>Thapar Uni.</td> </tr> </tbody> </table>	Sr. No.	Match Between	Winner	1.	NITJ V/s P.E.C, Chandigarh	NITJ	2.	NITJ V/s Thapar Uni. Patiala	Thapar Uni.	3.	NITJ V/s SLIET, Longowal	NITJ	4.	NITJ V/s Thapar Uni. Patiala	Thapar Uni.						
Sr. No.	Match Between	Winner																				
1.	NITJ V/s P.E.C, Chandigarh	NITJ																				
2.	NITJ V/s Thapar Uni. Patiala	Thapar Uni.																				
3.	NITJ V/s SLIET, Longowal	NITJ																				
4.	NITJ V/s Thapar Uni. Patiala	Thapar Uni.																				
2	Inter – Technology University Badminton (Women) Tournament 2010-10 held at N.I.T, Jalandhar	Badminton (Women)	12/11/10 to 13/11/10	Runner-up																		
	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Match Between</th> <th>Winner</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>NITJ V/s SLIET, Longowal</td> <td>NITJ</td> </tr> <tr> <td>2.</td> <td>NITJ V/s P.E.C, Chandigarh</td> <td>P.E.C</td> </tr> <tr> <td>3.</td> <td>NITJ V/s P.E.C, Chandigarh</td> <td>P.E.C</td> </tr> </tbody> </table>	Sr. No.	Match Between	Winner	1.	NITJ V/s SLIET, Longowal	NITJ	2.	NITJ V/s P.E.C, Chandigarh	P.E.C	3.	NITJ V/s P.E.C, Chandigarh	P.E.C									
Sr. No.	Match Between	Winner																				
1.	NITJ V/s SLIET, Longowal	NITJ																				
2.	NITJ V/s P.E.C, Chandigarh	P.E.C																				
3.	NITJ V/s P.E.C, Chandigarh	P.E.C																				
3	Inter – Technology University Chess (Men) Tournament 2010-10 held at N.I.T, Jalandhar	Chess (Men)	12/11/10 to 13/11/10	Winner																		
	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Match Between</th> <th>Winner</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>NITJ V/s Thapar Uni. Patiala</td> <td>Drawn</td> </tr> <tr> <td>2.</td> <td>NITJ V/s P.E.C, Chandigarh</td> <td>NITJ</td> </tr> <tr> <td>3.</td> <td>NITJ V/s SLIET, Longowal</td> <td>NITJ</td> </tr> </tbody> </table>	Sr. No.	Match Between	Winner	1.	NITJ V/s Thapar Uni. Patiala	Drawn	2.	NITJ V/s P.E.C, Chandigarh	NITJ	3.	NITJ V/s SLIET, Longowal	NITJ									
Sr. No.	Match Between	Winner																				
1.	NITJ V/s Thapar Uni. Patiala	Drawn																				
2.	NITJ V/s P.E.C, Chandigarh	NITJ																				
3.	NITJ V/s SLIET, Longowal	NITJ																				
4	Inter – Technology University Chess (Women) Tournament 2010-10 held at N.I.T, Jalandhar	Chess (Women)	12/11/10 to 13/11/10	Third																		
	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Match Between</th> <th>Winner</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>NITJ V/s SLIET, Longowal</td> <td>Drawn</td> </tr> <tr> <td>2.</td> <td>NITJ V/s Thapar Uni. Patiala</td> <td>Drawn</td> </tr> <tr> <td>3.</td> <td>NITJ V/s P.E.C, Chandigarh</td> <td>P.E.C</td> </tr> </tbody> </table>	Sr. No.	Match Between	Winner	1.	NITJ V/s SLIET, Longowal	Drawn	2.	NITJ V/s Thapar Uni. Patiala	Drawn	3.	NITJ V/s P.E.C, Chandigarh	P.E.C									
Sr. No.	Match Between	Winner																				
1.	NITJ V/s SLIET, Longowal	Drawn																				
2.	NITJ V/s Thapar Uni. Patiala	Drawn																				
3.	NITJ V/s P.E.C, Chandigarh	P.E.C																				
5	Inter – Technology University Table Tennis (Men) Tournament 2010-10 held at P.E.C, Chandigarh	Table Tennis (Men)	12/11/10 to 13/11/10	Runner-up																		
	<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Match Between</th> <th>Winner</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>NITJ V/s SLIET, Longowal</td> <td>NITJ</td> </tr> <tr> <td>2.</td> <td>NITJ V/s P.E.C, Chandigarh</td> <td>NITJ</td> </tr> <tr> <td>3.</td> <td>NITJ V/s Hamirpur</td> <td>NITJ</td> </tr> <tr> <td>4.</td> <td>NITJ V/s Kurukshetra</td> <td>NITJ</td> </tr> <tr> <td>5.</td> <td>NITJ V/s Thapar Uni. Patiala</td> <td>Thapar Uni.</td> </tr> </tbody> </table>	Sr. No.	Match Between	Winner	1.	NITJ V/s SLIET, Longowal	NITJ	2.	NITJ V/s P.E.C, Chandigarh	NITJ	3.	NITJ V/s Hamirpur	NITJ	4.	NITJ V/s Kurukshetra	NITJ	5.	NITJ V/s Thapar Uni. Patiala	Thapar Uni.			
Sr. No.	Match Between	Winner																				
1.	NITJ V/s SLIET, Longowal	NITJ																				
2.	NITJ V/s P.E.C, Chandigarh	NITJ																				
3.	NITJ V/s Hamirpur	NITJ																				
4.	NITJ V/s Kurukshetra	NITJ																				
5.	NITJ V/s Thapar Uni. Patiala	Thapar Uni.																				

11	All India Inter IIT's & NIT's Sports Festival Sangram 11 for Lawn Tennis (M) held at IIT Roorkee		Lawn Tennis (Men)	25/02/11 to 27/02/11	Participation	
	Sr. No.	Match Between				Winner
	1.	NITJ V/s A M, University				NITJ
	2.	NITJ V/s IITR				IITR
12	All India Inter IIT's & NIT's Sports Festival Sangram 11 for Athletics (M) held at IIT Roorkee		Athletics (Men)	25/02/11 to 27/02/11	Fourth	
	Sr. No.	Event				Winner
	1.	100 Mtr				J. Kumar (NITJ)
	2.	200 Mtr				Jarangal (NITJ)
13	All India Inter IIT's & NIT's Sports Festival Sangram 11 for Badminton (M) held at IIT Roorkee		Badminton (Men)	25/02/11 to 27/02/11	Fourth	
	Sr. No.	Match Between				Winner
	1.	NITJ V/s IITR – B				NITJ
	2.	NITJ V/s GRDCMT, Dehradun				NITJ
	3.	NITJ V/s JIET Guna				NITJ
4.	NITJ V/s IITR –A (Quarter Final)	IITR – A				
14	Annual Athletics Meet (Boys & Girls) 2010-11 organized by Sports Deptt. NIT Campus, Jalandhar		Annual Athletics Meet	25/03/11 to 26/03/11	Successfully Organized	

6. INTER - YEAR TOURNAMENT:

Sr. No.	Name of Game	Date	Year	Position
1	Cricket (M)	09/10/2010 to 10/10/2010	IInd Year Final Year Ist Year	Winner Runner-up Third
2.	Football (M)	13/10/2010 to 16/10/2010	IIIrd Year Final Year IInd Year	Winner Runner-up Third
3	Basketball (M)	12/10/2010 to 13/10/2010	IIIrd Year IInd Year Final Year	Winner Runner-up Third
4	Chess (Men)	27/09/2010 to 30/09/2010	Ist Year IInd Year Final Year	Winner Runner-up Third
5	Volleyball (Men)	12/10/2010 to 15/10/2010	IIIrd Year Final Year IInd Year	Winner Runner-up Third
6	Super 9 Cricket Tournament	26/01/2011 to 30/01/2011	-----	Tharkhi Boys NITJ Hardies Eagle Nine

7. ANNUAL ATHLETICS MEET 2009-10:

The Annual Athletics meet of the Institute was organized from March 25 – 26, 2011. In all, 14 formal events for Boys, 10 events for Girls and Special Events for Boys & Girls were held. **Director, Prof.**

& **Dr. S. B. S Mishra**, as a Chief Guest inaugurated the meet on 25 March, 2011.

Mr. Jey Kumar N Final year student, Department of Mechanical Engineering and **Ms. Vineet Kumari** 2nd year student Department of Electronics and Communication Engineering were adjudged the Best Athletes.

A part from the above events participated in 100 meters Race Faculty. **Prof. Ajay Gupta**, Department of Industrial & Production Engineering is First, **Prof. S. K. Pahuja**, Department of Instrumentation and Control Engineering First Position in Shot put, **Mr. Matura Parshad**, Attendant First position in 100 meters staff race.

Result's of Annual Athletics meet:

1st Place : **Final year House with 78 Points.**
2nd Place : **Second year House with 75 Points.**
3rd Place : **Third year House with 69 Points .**

8. N.S.S (NATIONAL SERVICE SCHEME)

The overall aim of National Service Scheme (N.S.S) is to provide an extension dimension to the higher education system and orient young students to community service while they are in the institution.

The broad objectives of N.S.S in the institute are:

1. To make the students understand the community to which they belong
2. To identify the needs and problems of the community and to involve themselves in problem solving process
3. To develop among them a sense of social and civic responsibility
4. To utilize their knowledge in finding practical solution to individual and community problems

4.7 Awards

One Chairperson's Gold Medal and nine institute silver medals were given at the Convocations to the topper students.

4.8 Examination Details

The academic system at NIT, Jalandhar is framed on a credit based semester examination system. The credit system envisages a continuous evaluation of student's performance, and provides flexibility for academic progress at an optimum pace based on individual ability and convenience, subject to the constraint of the minimum requirements for continuation in the academic programme.

The student is awarded a letter grade from the prescribed grading system in each course registered by him. For each pass grade, the students accumulate the course credits as earned credits. The academic performance of the student is indicated in terms of the number of credits that he/she earns and the weighted grade point average. A specified minimum number of credits should be acquired on semester or session basis in order to qualify for continuation in the academic programme and the award of degree.

Credits

Each lecture/tutorial hour per week per semester is assigned one credit. Each laboratory hour per week per semester is assigned half credit. However, some courses are preparatory in nature and have half the credit weightage of a normal course. The courses without credit are termed as noncredit (NC) courses.

Grades

In grading system, the evaluation in terms of marks is replaced by the award of letter grades. The structure and guidelines for award of grades is given.

Grade	Points	Description of Performance	Recommended Cut Off marks *
S	10	Outstanding	90
A	09	Excellent	80
B	08	Very Good	70
C	07	Good	60
D	06	Average	50
E	04	Marginal	40
U	-	Unsuccessful	-
I	-	Incomplete	-
W	-	Withheld due to shortage of attendance or withdraw	-
NP	-	Audit Pass	-
NF	-	Audit Fail	-

- Subject to confirmation based on standard deviation, if the sample size is greater than 20, and is flexible to the recommendation of the individual course coordinators with proper justification.

The grades will be awarded to a student in each registered course including a laboratory course, based on his/her performance evaluated through a prescribed scheme of evaluation. In theory courses the evaluation is weighted on class tests, tutorial work, home assignment and semester examinations in prescribed proportions. The recommended weightage for class tests is 30%-40%, assignments/tutorial work is 10%-20% and End Semester Exam is 50%. In the laboratory and practical classes, it would be weighted equally on the basis of regular practical work and an examination conducted for the purpose. The credits for the courses in which a student has obtained "E" (minimum passing grade for a course) or a higher grade will be considered as credits earned by him/her. In addition, courses up to a maximum of 8 credits in case of B Tech students in which a student has got "NP" grade will also count towards his/her earned credits. Any course in which a student has obtained "W" or "NF" grade will not be counted towards his/her earned credits.

For the other (elective) courses in which "U" "W" grade have been obtained, the student may take the same course or any other course from the same category when it is offered next. Further, "U" grades secured in any course stay permanently on the grade card. The weightage of these grades is not counted in the calculation of the SGPA and CGPA.

An "I" grade denotes incomplete performance in any course due to absence at the end of semester. Upon completion of all course requirements, the "I" grade is converted to a regular grade.

These grades (NP and NF) are awarded in a course that the student opts to audit. Audit applications are allowed during the first four weeks of a semester. The audit pass (NP) grade is awarded if a minimum "E" grade is obtained in the course and attendance is above 75% in the classes. If either of these requirements is not fulfilled, the audit fail (NF) grade is awarded. In courses, where NP grade is obtained, the corresponding course credits are counted towards earned credits. The grades obtained in an audit course are not considered in the calculation of SGPA or CGPA.

A "W" grade is awarded in a course where the student has opted to withdraw from the course. Withdrawal from a course is permitted until one week after the class test-I.

Grade Point Averages

The performance of a student will be evaluated in terms of two indices, viz. the Semester Grade Point Average (SGPA) which is the Grade Point Average for a semester and Cumulative Grade Point Average (CGPA) which is the Grade Point Average for all the completed semesters at any point of time. The SGPA is calculated on the basis of grades obtained in all courses, except audit courses, registered for in the semester.

$$\text{SGPA} = \frac{(\text{Course credits} \times \text{Grade point}) \text{ except audit courses}}{(\text{Course credits}) \text{ except audit courses Sem.}}$$

The CGPA is calculated on the basis of all pass grades, except audit courses obtained in all completed semesters.

$$\text{CGPA} = \frac{(\text{Course credits} \times \text{Grade point}) \text{ for courses with pass grade except audit Sem courses}}{\text{Total course credits}}$$

CGPA = -----
 (Course credits) of courses with pass grade except audit courses Sem

Degree Requirements

For obtaining a degree in a 4 year B Tech programme, the following requirements are to be satisfied:-

1. Earn required 200 credits in all
2. Obtain a minimum Cumulative Grade Point Average (CGPA) of 5.0
3. Complete the requirements of all courses under different categories as prescribed in the Syllabi.
4. Complete the prescribed practical training satisfactorily.
5. Complete the requirement of attending NCC/NSS/NSO activities in their first year or at best by the end of 2nd year (4th semester) satisfactorily.
6. Must have earned the pass grade in discipline courses.

Rules and Regulations for B. Tech Programmes

Registration

Registration is an important procedural part of the academic system which ensure the willingness of the student to continue in the course of study in the institute. No credit is given to the student who attends a course without a formal registration. The name of the registered student only appears on the roll list of the courses registered. Pre-registration for each semester will be done according to a specified schedule prior to the end of the previous semester and paying the requisite tuition fee to the institute. In absentia registration will be allowed only in rare cases at the discretion of Dean (Academic Programme). In case of illness or absence during registration, the student should intimate the same to the Dean (Academic Programme). Each student will be given a Registration Record which will be an official record of courses registered. Add, Drop, Withdrawal and Audit will be marked on this sheet itself by the Academic Section. The Registration Record should be retained by the student until he/she gets the Semester Grade Card for the corresponding semester.

Advice on Courses

At the time of completing the Registration Form, each student should consult his/her HOD concerned to finalize the academic programme, keeping in view minimum/maximum numbers of total and lecture credits, past performance, backlog of courses, SGPA/CGPA, workload and students interests. Special provisions exist for academically weak students.

Limits on Registered Credits

A student must register for a minimum of 15 credits and a maximum of 30 credits in a semester wherein theory credits registered by a student should not be less than 9 credits. There is a minimum number of student registration required to run an elective course and will be decided by the department concerned from time to time.

Late Registration

1. For those students who were not on campus during the period of registration in the previous semester, registration procedure will be completed on a later date with permission of the Dean, Academic Programmes.
2. For reasons beyond his/her control, if a student is not able to register or send an authorized representative with a medical certificate, he/she may apply to the Dean (Academic Arrairs) for late registration. The Dean will consider and may approve late registration in genuine cases on payment of an extra fee of Rs.500/-. Late registration is allowed until one week after the start of the semester.

Addition, Deletion, Audit and Withdrawl from Courses

1. Add and Drop: A student has the option to add or delete courses from his/her registration during the first week of the semester.
2. Audit: A student may also apply for changing a credit course to an audit one within one week of the end of the first class test.
3. Withdrawal: A student who wants to withdraw from a course should apply on a prescribed form within one week of the end of the first class test. A withdrawal grade (W) will be awarded in such cases.

Attendance Requirement

1. All students must attend every lecture, tutorial and practical class. However, to account for late registration, sickness or other such contingencies, the attendance requirement will be a minimum of 75% of the scheduled classes.
2. A student with less than 75% attendance in a course during a semester, will be awarded a W grade in that course irrespective of his/her performance in the tests. The Course Coordinator, while awarding the grades, will take into account the consolidated attendance record for the whole semester. Students who are deficient in attendance shall be awarded W grade, by the course coordinator.
3. In order to maintain the attendance record of a particular course, a roll call will be taken in every scheduled lecture, tutorial and practical class.
4. For the purposes of attendance, every scheduled practical class will count as one unit irrespective of the number of contact hours
5. The Course Coordinator will consolidate the attendance record for the course from the beginning of the semester up to class test-I to class test-II and to the end of the semester. The teacher offering the course shall notify the students having less than 75% attendance with an intimation of the same to the concerned Head of the Department and Dean (Academic Programmes).
6. Every faculty offering a course will take attendance till three calendar days before the last instruction day in the semester. The percentage of attendance, calculated up to this instruction, will be indicated in a code number/letter as follows: Attendance rounded to Code No/letter 95% and above H 85% to 94% 9 75% to 84 % 8 Below 75% L A student who has attendance code letter L will not be allowed to sit for end semester examination in the course in which the short fall exists.

Absence during the Semester

1. A student must inform the Dean (Academic Affairs) immediately of any instance of continuous absence from classes.
2. A student who is absent due to illness or any other emergency, up to a maximum of two weeks, should approach the Course Coordinator for make-up in quizzes, assignments and laboratory work.
3. A student who has been absent from a class test due to illness should approach the Course Coordinator for a make-up test on return to class. This request should be supported with a Medical Certificate from the Institute Medical Officer. A Certificate issued by a registered medical practitioner will also be acceptable in those cases where a student is normally residing off-campus; in such cases the registration number of medical practitioner should explicitly appear in the medical certificate. Prior to approaching the Course Coordinator, the student must file a copy of the medical certificate with the Academic Section.
4. In case of absence on Medical grounds or other special circumstances, before or during the end semester examination, the student can apply for I-grade. 75% attendance in a course is necessary for being eligible for request of I-grade in that course. An application requesting an I-grade should be made at the earliest, but not later than the last day of the end semester examination. This application should be made to the concerned Head of Department, depending on the merits of the case, will grant the approval. The Head of the concerned Department will inform all the concerned Course Coordinators and Dean (Academic Programmes). The student should, subsequently, complete all course requirements according to the prescribed schedule.
5. In special situations arising due to the students inability to be present at the institute during the stipulated period, the period for conversion of I grade can be extended to the beginning of the next semester. Approval for this extension is granted by Dean (Academic Programmes), on the recommendations of the concerned Head of the Department of the student, the Course Coordinator(s), and the Chief Warden in case of a boarder. A request to this effect should be included in the application for I-grade.
6. In case the period of absence on Medical grounds is more than 20 working days during the semester, a student may apply for withdrawal from the semester i.e. withdrawal from all courses registered in that semester. Such an application must be made as early as possible and latest before the start of the end semester examinations. No application for semester withdrawal will be considered after the end semester exams have commenced. Each application for semester withdrawal will be examined by the Dean (Academic Programmes) and depending on the merit of the case, an appropriate recommendation will be made. Partial withdrawal from courses registered in a semester is not allowed.

4.9 Training and Placement

The Centre of Training & Placement of Dr.B.R.Ambedkar National Institute of Technology, Jalandhar, which started its activities in Dec.1990 serves as a Central facility for all the Departments.

A. PLACEMENT OF FINAL YEAR STUDENTS (2007-2011 Batch)

Campus Interviews were arranged for the final year B.Tech. students. A large number of reputed Industrial houses in the country visited the Institution and selected the final year students as Engineers/Management Trainees. Some of the Companies invited the students to their Corporate Offices for the interviews.

Branch	Total No. of Eligible Students	No. of Job Offers	No. of Double Job offers	No. of Students Placed
CSE	62	79	19	60
ECE	65	66	6	60
ICE	65	84	20	64
ME	64	85	22	63
INE	43	53	13	40
CHE	39	32	2	30
CE	53	56	5	51
TT	22	22	2	20
BT	21	18	0	18
G.Total	434	495	89	406

Highest Pay package = 10 Lacs by NTPC Limited

The following Industrial houses have visited the Institute for 2007-2011 batch

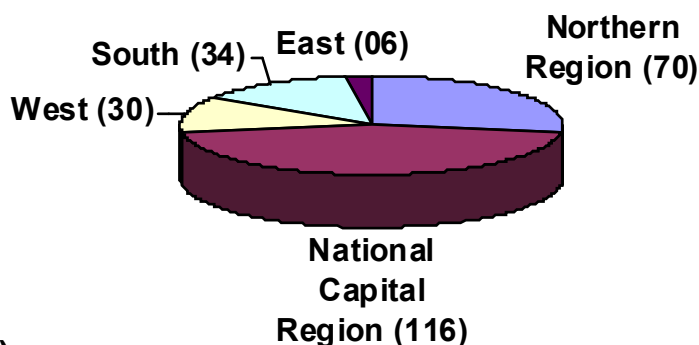
S.No.	Name of Organisation	S.No.	Name of Organisation
1.	Shapoorji Pallonji & Co. Ltd.	29.	Microsoft Limited
2.	Accenture Services Limited	30.	Nestle India Limited
3.	Alstom Projects	31.	NTPC & BHEL Power Projects Pvt. Limited
4.	Asea Brown Boveri Limited	32.	NTPC Limited
5.	Ashok Leyland	33.	Patni Computers Limited
6.	Asia Motor Works (AMW)	34.	Rancore Technologies
7.	AVTEC	35.	Reliance Industries Limited
8.	Beore Inc.	36.	Reliance Power
9.	Bharat Electronics Limited (BEL)	37.	Saint Gobain
10.	Bharat Heavy Electricals Limited	38.	Samsung Engineering Ltd
11.	Bharat Petroleum Corporation Limited (BPCL)	39.	Samsung India Electronics Pvt. Ltd
12.	Birla Soft Limited	40.	Samtel Group
13.	Capgemini	41.	Sapient
14.	C-DOT	42.	SEL Manufacturing Company Limited
15.	Fiserv Limited	43.	Simplex Infrastructure Limited
16.	Hero Honda	44.	SRF Limited
17.	Hindustan Petroleum Corporation Limited (HPCL)	45.	Subros Limited
18.	India Bulls Power	46.	Suzuki Power Trains Limited
19.	Indian Army	47.	Tata Consultancy Services (TCS)
20.	Indian Navy	48.	Tata Motors, Pant nagar
21.	Interra Systems	49.	Tata Power Limited
22.	Ireo	50.	Technip KT India Limited

23.	ITD Cementation Ltd.	51.	Telcon
24.	JSW Limited	52.	Thermax India Limited
25.	L&T Infotech Limited	53.	Trident India
26.	Larsen & Toubro Limited (Heavy Machinery)	54.	Vardhman Textiles Limited
27.	Larsen & Toubro(ECC Division)	55.	Wipro Technologies
28.	Mahindra & Mahindra Limited		

B. INDUSTRIAL PRACTICAL TRAINING OF STUDENTS

In the year 2010, 455 students in the various disciplines have been sent to various Industries of repute in different parts of the country for two months practical training from May to July 2010. Arranging the training involved close interaction with the concerned Industry, the preparation for which started much in advance. After the completion of training, each student will be evaluated on the basis of various evaluation components – Seminar, Group discussion, Daily diary, viva voce examination (Internal & External). The list where students have undergone practical training is enclosed.

(A) No. of industries for Training during 2010:



(B) Prominent Industries and Research Centres for Industrial Practical Training: The list of prominent industries and research centres where students have undergone Practical training during last couple of years are the following:

- ❖ Aarti International Ltd.
- ❖ Asea Brown Boweri
- ❖ Associated Cement Companies Ltd.
- ❖ Accenture Services Pvt. Ltd
- ❖ Advance Technology Pvt. Ltd.
- ❖ Alcatel India
- ❖ All India Institute of Medical Science
- ❖ Alok Industries
- ❖ Alstoms Projecs India Pvt. Ltd.
- ❖ Ambuja Cement
- ❖ Anest Iwata Mortherson Ltd.
- ❖ Arikav Fab Pvt. Ltd.
- ❖ Arvind Mills Ltd.
- ❖ Ashok Leyland
- ❖ Asian Paints
- ❖ Auro Dyeing
- ❖ Auro Spinning Mills
- ❖ Avake Technology (I) Pvt. Ltd.
- ❖ Avents Pharma Ltd.
- ❖ Bajaj Tempo
- ❖ Ballarpur Industries Limited

- ❖ Bawa Skin Company
- ❖ BFL, Bharat Heavy Electricals
- ❖ Bhabha Atomic Research Centre
- ❖ Bharat Electronics Limited
- ❖ Bharat Heavy Electricals Ltd.
- ❖ Bharat Sanchar Nigam Ltd.
- ❖ Bharti Systels
- ❖ Bharti Airtel Ltd.
- ❖ Bharti Teletech Limited
- ❖ Bhilai Steel Plant,
- ❖ Birla Technical Services
- ❖ British Oxygen Company Ltd.
- ❖ Bharat Petro Chemical Ltd.
- ❖ Cadence Design Systems
- ❖ C-DOT
- ❖ CE Info Systems (P) Ltd.
- ❖ Central Electronics Engg. Research Institute
- ❖ Central Leather Research Institute
- ❖ Central Public Works Department
- ❖ Central Scientific Instruments Organisation
- ❖ Centre for Electronics Designing Technology of India
- ❖ Centre for Artificial Inteligence& Robotics
- ❖ Chawla Tanneries Pvt. Limited
- ❖ Clariant (I) Ltd.
- ❖ CMC Ltd.
- ❖ Compro Technologies Pvt. Ltd.
- ❖ Continental Device India
- ❖ Converge Labs Corporation
- ❖ Central Public Works Department
- ❖ Cummins India Ltd.
- ❖ Daffodil Software Ltd.
- ❖ Daurala Organics Ltd.
- ❖ Defence Research & Development Organization
- ❖ Diac Spaa Technologies Pvt. Ltd.
- ❖ Dr.Reddys Labs Ltd.
- ❖ Durgapur Steel Plant
- ❖ Eicher Motors Ltd.
- ❖ Eicher Tractors
- ❖ Engineers India Ltd.
- ❖ Escorts Mahle
- ❖ Evereaday Industries
- ❖ Forms & Gears
- ❖ Fortel Jain Projects Pvt. Limited
- ❖ Freescale Semiconductor India Pvt. Ltd.
- ❖ Gammon India Ltd.
- ❖ Garg Acrylics Ltd.
- ❖ Global Mobile Infrastructure Pvt. Limited
- ❖ Goetze (India) Ltd.
- ❖ Grasim Industries
- ❖ Grauer & Well India Ltd.
- ❖ Grindwell Norton
- ❖ Gujarat State Electricity Corporation Ltd
- ❖ Gupta Construction Pvt. Ltd.
- ❖ Hankel Teroson India Ltd.
- ❖ Havells India Pvt. Ltd.
- ❖ HCL Comnet
- ❖ HCL Infosystems
- ❖ HCL Technologies Ltd.
- ❖ Heavy Engg. Corporation Ltd.
- ❖ Hero Honda Motors
- ❖ Hewlett Packard
- ❖ Hindustan Aeronautics Ltd.
- ❖ Hindustan Machine Tools

- ❖ Hindustan Motors Ltd.
- ❖ HLS Asia Ltd.
- ❖ Honda Siel Cars India Ltd.
- ❖ Hutch Essar South Ltd.
- ❖ i2 Technologies India Pvt. Ltd.
- ❖ India Sugar and General Engg. Corporation
- ❖ Indian Airlines
- ❖ Indian Institute of Petroleum
- ❖ Indian Oil Corporation Ltd.
- ❖ Indian Petrochemicals Corporation Ltd.
- ❖ Indian Telephone Industries Ltd.
- ❖ Infinite Computer Solutions (I) Ltd.
- ❖ Interra Systems India Pvt. Ltd.
- ❖ ITC Ltd
- ❖ J C T , Phagwara
- ❖ J.K. Industries
- ❖ Jagatjit Industries Ltd.
- ❖ JAIV Technologies Pvt. Ltd.
- ❖ Jayshree Textiles
- ❖ K.K. Tanner's
- ❖ Khanna Paper Mills
- ❖ Kollace
- ❖ Krebs Biochemicals
- ❖ Kwaliti Photonics Pvt. Ltd.
- ❖ Larsen & Toubro Ltd.
- ❖ Leader Valves Ltd.
- ❖ LG Electronics India Pvt. Ltd.
- ❖ Madura Garments Exports Ltd.
- ❖ Mahindra & Mahindra Ltd
- ❖ Maruti Suzuki India Ltd.
- ❖ Maruti Udyog Ltd.
- ❖ MECON India Ltd.
- ❖ Metro Railway
- ❖ MICO
- ❖ Microsoft IT Ltd.
- ❖ Mind Q Systems Pvt. Ltd.
- ❖ Mindarika Pvt. Ltd.
- ❖ Morpen Laboratories
- ❖ Motherson Sumi
- ❖ Motorola India Pvt. Ltd.
- ❖ Nagarro Software Ltd.
- ❖ Nahar Industrial Enterprises Ltd.
- ❖ National Aviation Company of India Ltd.
- ❖ National Engg. Industries.
- ❖ National Fertilizers Ltd.
- ❖ National Highway Authority of India
- ❖ National Informatics Centre
- ❖ National Productivity Council
- ❖ Nestle India Ltd.
- ❖ Netweb Technologies
- ❖ New Holland Tractors
- ❖ NIIT Technologies Ltd.
- ❖ Nirma
- ❖ NISTADS
- ❖ Nokia Siemens Networks Private Limited
- ❖ OCM India Ltd
- ❖ Oil and Natural Gas Corporation Ltd.
- ❖ Okaya Industries
- ❖ Orient Craft Ltd
- ❖ Patni Computers
- ❖ PFIZER
- ❖ Polaris Software Labs Ltd.
- ❖ Power Grid Corporation of India Ltd.

- ❖ Precision Tech Enterprises
- ❖ Punjab Communications Ltd.
- ❖ Punjab Remote Sensing Centre
- ❖ Punjab Tractors Ltd.
- ❖ Purolator India
- ❖ Quick Logic Controls
- ❖ Rail Coach Factory
- ❖ Ranbaxy Laboratories Ltd.
- ❖ Raymond Ltd.
- ❖ Reliance Engg. Associates Pvt. Ltd.
- ❖ Reliance Industries
- ❖ Reliance Infocomm Ltd.
- ❖ Rieter LMW
- ❖ RITES Ltd.
- ❖ Rockwell Automation India Ltd.
- ❖ Royal Sales Corporation
- ❖ Ruchi Soya Industries Limited
- ❖ Safaltek Software Pvt. Ltd
- ❖ Saha Institute of Nuclear Physics
- ❖ Sarup Tanneries Ltd.
- ❖ SEL Manufacturing Co. Ltd
- ❖ Semiconductor Complex Ltd.
- ❖ Shriram Group
- ❖ Siemens Public Communications Networks Pvt. Ltd.
- ❖ Simon Carves India Ltd.
- ❖ Solid State Physics Laboratory
- ❖ Sona Koya Steering Systems
- ❖ Southern Railways
- ❖ SPANN Ltd.
- ❖ Spice Net Ltd.
- ❖ SPL Industries Ltd.
- ❖ Sporting India Ltd.
- ❖ ST Microelectronics
- ❖ Steel Authority of India Ltd.,
- ❖ Subros Ltd.
- ❖ Syngenta India Ltd.
- ❖ Tata Consultancy Services Ltd.
- ❖ Tata Honeywell
- ❖ Tata Infotech Ltd.
- ❖ Tata Institute of Fundamental Research
- ❖ Tata International Ltd.
- ❖ Tata Motors Ltd.
- ❖ Tata Teleservices Ltd.
- ❖ Telecommunications Consultants India Ltd.
- ❖ Telemune Software Solutions Pvt. Ltd.
- ❖ Tellabs Communication
- ❖ Texas Instruments
- ❖ TriCAD Design Consultants Pvt. Ltd.
- ❖ Trident
- ❖ TVS Infotech
- ❖ TVS Suzuki
- ❖ U.P.State Bridge Corporation Ltd.
- ❖ Vardhman Textiles Ltd.
- ❖ Virtual Solutions Ltd.
- ❖ Volvo India Ltd.
- ❖ Wep Peripherals Ltd.
- ❖ Whirlpool
- ❖ Winsome Textile
- ❖ Winsome Yarns Limited
- ❖ Wipro Infotech Ltd.
- ❖ Xansa
- ❖ Yamaha Motor India Pvt. Ltd.

5.0 RESEARCH AND DEVELOPMENT ACTIVITIES

5.1 Ph.D Programmes- Existing and Proposed

Existing Ph.D Programmes	
Chemistry	
Mathematics	
Physics	
Chemical and Bio Engineering	
Civil Engineering	
Computer Science and Engineering	
Electronics and Communication Engineering	
Industrial Engineering	
Instrumentation and Control Engineering	
Textile Technology	

Proposed Ph.D Programmes	
Biomedical Instrumentation	--
Power System Control, Operation and Optimization	--
Digital Signal Processing and Applications	
Control Theory applied to power system problems	
Management	

5.2 Details of Ph. D done so far: 14

5.3 Proposed Plan for research

Interdisciplinary Research and Development Centre is being set up for which space and finance is has been sanctioned.

5.4 Institute- Industry Collaboration

- UKIERI Collaborative Research Project on "Sustainable High Performance Concrete Infrastructure" being undertaken by University of Dundee, UK.

6.0 THE COUNCIL, BOG AND OTHER COMMITTEES

6.1 Institute's Council (Refr Annexure 11.1)

6.2 Board of Governors (Refr Annexure 11.2)

6.3 Finance Committee (Refr Annexure 11.3)

6.4 Building & Works Committee (Refr Annexure 11.3)

6.5 SENATE (Refr Annexure 11.3)

6.6 OTHER COMMITTEES (Refr Annexure 11.3)

7.0 CONCESSIONS FOR SC's, ST's HANDICAPPED STUDENTS

7.1 Concessions Provided for Students

As per government norms

7.2 Concessions Provided for Staff : Nil

8.0 FINANCIAL STATUS

8.1 Analysis of Plan and Non-Plan Grants

Plan Grant

Plan grant is meant for capital nature expenditure. The expenditure on construction of buildings, purchase of equipment and other facilities. The other facilities includes the following subheads:-

- Furniture and fixture
- Library (Books and equipment)
- Transport
- Office equipment
- Providing AC in the Lab
- Medical equipment
- Telephone exchange
- Audio and visual teaching aids
- Sports amenities
- Up gradation of classroom
- Internet facilities
- Faculty up gradation:
- Membership/registration fee for presenting paper
- Reimbursement of cost of books for teachers
- Equipment for HRD/Hindi cell

Non Plan Grant

The expenditure of revenue nature i.e. salary and allowances, TA/DA, medical reimbursement, training cost, campus maintenance, library expenses and other contingent expenditure are met from the Non Plan Grant.

Normally the whole grant is being utilized for the purpose for which it is sanctioned and the utilization certificate is sent to the ministry accordingly.

8.2 Sources of Funds

The whole Plan and Non plan grants are being received from the Ministry of Human Resource Development (MHRD), New Delhi.

During the year under report a sum of Rs 2500 lac & Rs 2000 lac were received as Plan grant & Non Plan grant respectively.

The expenditure for the year 2010-11 is Rs 374.87 Lacs and Rs 2337.10 Lacs under Plan and Non Plan respectively.

8.3 Expenditure position for last three years

Year	Plan Expenditure (Rs in Lacs)	Non Plan Expenditure (Rs in lacs)
2008-09	673.20	1513.14
2009-10	600.45	2529.80
2010-11	374.87	2337.10

9.0 CENTRAL FACILITIES AND SERVICES

9.1 Computer Services Centre

Following equipment procured under TEQIP

- 15 Sun Servers and 03 HP Servers which act as Web, Email, Proxy, DNS and Database servers for the institute.
- One SAN server which is connected with the Web, Email and Database servers.
- 10 Sun workstations.
- Video Conferencing equipment.
- 110 Computers with high configuration for use in Computer Center and language lab.
- 02 High-end network HP Laser Printers.

Research and development activities

- Software Engineering, Photonic Networks.
- Language lab, Photonic Networks and Video conferencing system setup.
- Development of Optical communication systems and networks simulation facility

9.2 Workshop

Faculty: 01 Staff: 08

Assistant Instructor: 05 No.

Carpenter: 01 No.

Workshop Attended: 02 No.

Addition of Equipment : During the year no new equipment was purchased

Institutional Practical Training

Student after 2nd semester were given Institutional Practical Training in the Workshop for 2 weeks. Regular classes were held during the semester staff was busy for 20- 24 hours a week.

Facilities to other Department

Workshop helped other departments for the purchase of materials and repairs the equipments. Testing specimen for UTM of Mechanical Engineering Department was also prepared in Mechine shop. Assistance to students and staff in fabrication of their projects was extended. Students complete minor and mahor projects with the Assistance of W/S staff.

Facilities for M. Tech and Ph.D students:

Students of M.Tech and Ph.D are making use of workshop facilities.

9.3 Library

Introduction:

Flood of literature on our academic scene has enhanced the value and responsibilities of our libraries. A library exists to support teaching and research programs of an educational Institute, to provide facilities for general reading and to disseminate information according to the requirements of its users. Keeping in view all these things Central Library, Dr. B. R. Ambedkar National Institute of Technology was established in 1987 (the same year this institute was established). Since then this center of learning has been functioning with the aim of encouraging self-learning and to supplement academics, boost research and development activities and to promote consultancy activities. The Institute possesses a growing Library. At present central library is housed in a multistoried air-conditioned building situated in the midst of all departments and hostels and is easily accessible to all. For smooth functioning of the library it has been divided into different sections and readers have been allowed open access to the library holdings.

Library Hours

The Library remains open throughout the year except on Gazetted holidays and any other holidays declared as a special holiday. It remains open from 9.00 A.M. to 9.00 P.M. from Monday through Friday and during Minor and Major examinations up to 12.00 mid-night and on Saturdays up to 4.00 P.M.

Library Resources

• **Collection**

The central Library, NIT, Jalandhar has a strong collection pertaining to engineering and technology, biotechnology, computer and information technology, and management.

The collection of the Library has grown to 1, 15,400 as on 31st March, 2011 including books, bound volumes of journals, standards, technical reports, video cassettes and CDs. The Library has approximate collection over 15000 books under Text and Book Bank schemes to support undergraduate studies. The reference collection in the Library is maintained separately and is categorized into atlases, bibliographies, handbooks, directories, dictionaries, encyclopedias and Technical data. The Library provides access to more than 1200 online electronic journals and standards, and caters to the demand-based procurement of specialized documents such as patents, standards and specifications and other literature required for teaching and research purpose.

- **Video Library**

The Library is equipped with video viewing facility consisting 29" TV, VCP, Multimedia projector. It has a collection of more than 1,500 videocassettes and CDs and other virtual information resources.

- **Reference Collection**

The Library maintains a separate reference collection consisting of encyclopedias, dictionaries, handbooks, technical data, almanacs, atlases, bibliographies, etc. The reference collection is further organized in sub-categories

- **Electronic Journals and Online Bibliographic Databases**

The library subscribes to a good number of current journals in print. Besides, the institute has access to over 2000 full-text electronic journals. Through the INDEST-AICTE Consortium bibliographic database of the holdings (Periodical publications) of all IITs, IIMs, IISc is available to the Institute through JCCC-J-Gate Custom Contents for Consortia. Members of this Institute are entitled to get hard copy of any article / paper from periodical publications available with IITs and IIMs free of any Charges. For this they just need to submit an online requisition to the institute holding that particular publication.

Computer and Networking Infrastructure

The library has its own Sub-LAN, which, in turn, is connected to the Campus LAN. Database of the library holding is accessible to all in the Institute campus.

Library Services and Facilities

- **Reader's Assistance**

The Library provides assistance to its users ranging from ranging from location of a book to finding specific information required by a user.

- **Untraceable publication register:-**

Untraceable publication register is kept on each floor for users to note down the bibliographic details of the publications not found on shelves. Members are intimated about the status of their request on phone or personally.

- **Reservation of publications: -**

All registered library members are entitled to avail reservation facility however only one title is reserved at a time and the concerned reader is informed immediately on receipt of the reserved title in the library.

- **Suggestions:**

Suggestions and complaints from library members are always welcome. They can make such suggestions/complaints orally or in writing directly to the librarian.

- **Circulation of Books and Library Membership**

The library members, according to their borrowing category can borrow stipulated number of books at a time. During the period under report about 80,000 volumes were borrowed by the members of the Library from general collection. The membership of the Library for different categories of readers is as below:

Undergraduates	2226
Postgraduates	450
Research Scholar	31
Faculty	146
Non-Teaching Staff	210
Total	3 0 8 3

In addition, consultation facilities were extended to around 500 users including students, research scholars and faculty members belonging to other academic institutions.

- **Inter Library Loan (ILL) and Resources Sharing Facility**

The Library arranges to procure books and journals from other libraries on Inter Library Loan (ILL) and Document Delivery Services (DDL). Xerox copies of research articles are also arranged from other IITs under a resource sharing agreement signed by all IITs. Demand based procurement of research publications, photocopies of research articles etc. was done from other IITs and institutions in Delhi as well as from other parts of India

- **Document Delivery service:-**

Under this service faculty and scholars of the Institute are entitled to get reprints/photocopies of research papers from the Institute library. Under this facility information is procured from all over India through NISCAIR (National Institute for Science Communication and Information Resources) NIT is maintaining a permanent account with NISCAIR to ensure uninterrupted supply of required information to the faculty. This service is being provided free of cost to the faculty. The JCCC interface, made available through the INDEST Consortium that facilitates inter-Library loan and document delivery amongst IITs and IISc, was used extensively.

- **Book Bank Facilities**

The Book Bank holds multiple copies of selected textbooks for making them available to the students for the entire duration of a semester. Students are being given this facility free of any charges.

During the year under review, 2226 students (including SC/ST students) availed of the benefit of the Book Bank Scheme. A total number of 10000 volumes were borrowed by students from book bank. Apart from regular lending of books to members, providing reading room facility, and reference service, central library provides the following services: -

- **Internet Facility/ access to online learning resources: -**

All library members are allowed to use this facility.

- **Media resource center/Audio –visual section:-**

Central library has a good collection of videocassettes and CDs. Video shows are organized from time to time.

Media resource center is equipped with the equipments as detailed below:-

- -Television with 29" screen
- -Video cassette player (VCP)
- -Pentium IV based system
- -Multimedia projector and projection screen

Library Visitors data

Average number of users per day over the last two semesters : 400

Average number of books issued per day over the last two semesters : 300

Virtual library:

A virtual library under the name of **INDEST**-Indian National Digital Library in Sciences and Technology provides desktop access to more than two third of the worlds periodical literature to all members of this library. These web based electronic resources has expedited the delivery of information to the researchers. Under this virtual library following resources are available for NIT:

IEL- IEE/IEEE ELECTRONIC LIBRARY-Periodical publications of IEE&IEEE.

ASME ONLINE: Periodical publications of American Society of Mechanical Engineers.

ASCE ONLINE: Periodical publications of American Society of Civil Engineers.

ACM DIGITAL LIBRARY: Periodical publications of Americans Society for Computing Machinery.

SCIENCE DIRECT: Periodical publications of Elsevier Science and Academic press.

ASTP- Applied Science and Technology Plus –covers periodical publications related to applied sciences and related disciplines.

SPRINGER VERLAG: *Periodical publications of Springer Verlag*

Nature Online: *A Multidisciplinary Journal*

Indian Standards (IS) Total collection of Indian Standards published by Bureau of Indian Standards has become available online to the institute w.e.f. January, 2004

(It is an intranet version)

ASTM standards and journals: All ASTM standards and journals are availableonline.

JCCC -J- Gate Custom contents for Consortia: It is a bibliographic database of the holdings (periodical publications only) of all IITs and IIMs. Members of this Institute are entitled to get hard copy of any article / paper from periodical publications available with IITs and IIMs.For this they just need to submit an online requisition to the institute holding that particular publication.

Membership Eligibility:

1.	Individual Members	Regular students and faculty of the institute
2.	Project staff	All officers and staff engaged in project and any other such activity.
3.	Special members	The visiting Faculty with the approval of the competent authority
4.	Temporary permission	Researchers /Scholars from other Institutes/Universities whom advisory services are rendered by the faculty of NIT, Jalandhar are permitted to use the library resources on producing identity slip duly signed by the respective faculty member.

Members Entitlement:

Category	Maximum number of documents	Refundable security, if any
Faculty/ Academic staff	12 (6 on long term)	
Non- Academic officers and staff- depending upon the category	1-10	
Students: B. Tech Book bank (weaker section) Book bank(General) (For all students) M, Tech Research Scholars	02 02-04 (for full semester) 02-04 (for full semester) 06 06	Rs.1000.00 For full degree course
Visiting faculty	05	
Special members	According to category	
Project staff	As per requirement	

Duration of loan:

Type of Document	Type of Loan	Duration of loan
Books and monographs	Short term Long Term	14 days one semester
Documents purchased under project grants	Long Term	Till the completion of the project
Electronic/Digital documents viz: CDs, floppies, cassettes etc. ➤ Individual members ➤ Dept./centers	Short term	1day 1 week

Procurement of books:-

Books / other documents are procured in the library against the suggestion/recommendations received from the departments/centers in the prescribed form available in the library. Student's suggestions are also incorporated while finalizing the purchase decision.

9.4 Laboratories**Department of Biotechnology (Further Details at 68)****Department of Chemical Engineering (Further Details at 71)**

- Biochemical Laboratory
- Pollution Abatement Laboratory
- Fluid Mechanics Laboratory
- Fuel Technology Laboratory
- Mass Transfer Laboratory
- Unit Operation Laboratory
- Chemical Reaction Engineering Laboratory
- Heat Transfer Laboratory

Department of Chemistry (Further Details at 75)

- Atomic Absorption spectrophotometer
- Double beam uv-visible spectrometer
- Gas-chromatograph
- Millipore Distillation setup
- Digital Melting –point Apparatus
- Photochemical reactor
- Top pan balances
- Stainless steel Modular Fume Hood
- Glasswares & Chemicals.

Department of Civil Engineering (Further Details at 84)

- CAD
- Environmental Engineering
- Geotechnical Engineering
- Structures Testing
- Survey
- Structural Analysis
- Transportation Engineering

Department of Computer Science and Engineering (Further Details at 85)

- Computer Centre
- Computer Programming Laboratory
- Information Security Lab
- Microprocessor Lab
- Computer Networks Laboratory
- Software Development Laboratory
- RDBMS Laboratory
- Natural Language and Pattern Recognition Laboratory
- Wireless Data Communication Laboratory

Department of Electronics and Communication Engineering (Further Details at 93)

- Digital Electronics lab
- T.V. and Microwave Lab
- Power Electronics Lab
- Communication Systems Lab.
- PCB Lab
- Basic Electronics Lab
- DSP Lab

Department of Humanities and Management (Further Details at 97)

- Communication lab (being established)
- High Tech Lab for computing facilities (being established)

Department of Industrial Engineering (Further Details at 100)

- Metrology
- Work Study Lab
- Ergonomics Lab
- Computer Lab
- Modern Tool Room
- Stastical quality and control Laboratory
- CAM & Autoamtion laboratory (CAMAL)

Department of Instumentation and control Engineering (Further Details at 102)

- Fabrication Unit Laboratory
- Analytical Instrumentation Laboratory

- Electrical Instrumentation and Circuit Laboratory
- Control System Engineering Laboratory
- Process Control and Instrumentation Laboratory
- Electrical Machines laboratory
- Instrumentation System Design Laboratory ISD
- Microprocessor Based Control Laboratory
- Biomedical Instrumentation Laboratory

Department of Mathematics (Further Details at 108)

Department of Mechanical Engineering (Further Details at 109)

- Fluid Machinery
- Heat Engines
- Vibrations
- Refrigeration and Air Conditioning
- Theory of Machines
- Mechanical Measurement
- Automation and Mechatronics
- Experimental Stress Analysis
- Automobile Engineering

Department of Physics (Further Details at 112)

- Applied Physics
- Material Science
- Fiber Optics
- Polymeric Material Testing

Department of Textile Technology (Further Details at 118)

- Yarn Manufacture Laboratory
- Fabric Manufacture Laboratory
- Textile Chemical Processing Laboratory
- Textile Testing Laboratory

9.5 Hospital, Post Office, Shopping Centre

The campus is self contained having shopping complex, computerized Banks, Post office. Dispensary and other facilities essential for community living.

9.6 Physical Facilities

Faculty Club, Students Activity Center, Guest House.

9.7 Games and Sports Facilities

Outdoors Games Facilities

Sr. No.	Outdoor games	Facilities available
1	Athletics	400 meter Standard Track & Field
2	Cricket	Standard Cricket ground
3	Football	Standard Football ground
4	Hockey	Standard Hockey ground
5	Basket ball	Basket Ball Standard Cemented Court
6	Volley ball	Two Volleyball standard grounds
7	Lawn Tennis	Two Lawn Tennis Cemented courts
8	Kabaddi N/S	Kabaddi N/s standard ground

Indoor Games Facilities

Sr. No.	Indoor games	Facilities available
1	Badminton	Indoor Badminton Standard Hall with three courts
2	Table Tennis	T.T. Table is available in each hostel in addition to that four tables are available in the Indoor Badminton hall.
3	Carom	Covered space is available in each hostel in addition to the Carom Boards that are available in the Indoor Badminton Hall.
4	Chess	Covered space is available in each hostel in addition to the Chess Boxes that are available in the Indoor Badminton Hall.

Weight training gym. Facility

1	Multipurpose Modern Weight Training facilities	Weight training gymnasium is available in the students Activity Centre, fully equipped with Modern Weight Training equipments.
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9.8 Other Facilities like Hostels, Messes, Staff Quarters and Administration etc

- Guest House
- Community Centre
- Hostels: 6 Boys, 2 Girls
- Messes:7
- Staff Quarters

10 NOTABLE ACHIEVEMENTS**10.1 Achievements**

- Placement of 406 numbers of eligible students in various reputed companies.
- There have been 499 publications in International/national Journals/Conferences during the year under report.
- Five Faculty members of the institute received their PhD during the year under report.
- 31 faculty members participated in conferences/ workshops/short term courses in several premier institutions in India/ abroad and prominent industries of the country.
- Utkansh-2010 A National level cultural programme, an icon of NIT, Jalandhar with variety of cultural events and competitions comprising cultural bonanza of all Indian States. Around 300 participants around 20 institutions participated in the event.

10.2 Activities/Achievements took Place during the year

- Dr. Ajay K Sharma is appointed as Dean Planning and Development.
- Dr Harsh K Verma awarded the certificate of excellence in recognition of his contribution as remote center coordinator in the successful completion of the Two-week ISTE Workshop on "Database Management Systems" conducted by IIT Bombay from December 13 to 23, 2010.
- Dr Sarbjit Singh Bedi has been awarded PhD degree in Business Management from Guru Jambheshwar University of Science & Technology, Hisar, Haryana (2010).
- Dr Jagwinder Singh has been awarded PhD degree in Management from Panjab University, Chandigarh (2010).
- 286 Journal Publications
- 213 Conference Publications

11 ANNEXURES**11.1 Insitute's Council****The Council**

- (1) With effect from such dated as the Central Government may, by notification, specify in this behalf, there shall be established for all the Institutes specified in column (3) of the Schedule, a central body to be called the Council.
- (2) The Council shall consist of the following members, namely:-
 - (a) The minister in charge of the Ministry or Department of the Central a Government having administrative control of the technical education, ex officio, as Chairman;
 - (b) The Secretary to the Government of India in charge of the Ministry or Department of the Central Government having administrative control of the technical education, ex officio, as Vice-Chairman;
 - (c) The Chairperson of every Board, ex officio;
 - (d) The Director of every Institute, ex officio;
 - (e) The Chairman, University Grants Commission, ex officio;
 - (f) The Director General, Council of Scientific and Industrial Research, ex officio;
 - (g) Four Secretaries to the Government of India to represent the Ministries or Departments of the Central Government dealing with biotechnology, automic energy, information technology and space, ex officio;
 - (h) The Chairman All India Council for Technical Education, ex officio;
 - (i) Not less than three, but not more than five persons to be nominated by the Visitor, at lease one of whom shall be a woman, having special knowledge or practical experience in respect of education, industry, science or technology;
 - (j) Three members of Parliament, of whom two shall be chosen by the House of the People and one by the Council of States;
 - (k) Two Secretaries to the State Government, from amongst the Ministries or Departments of that Government dealing with technical education where the Institutes are located, ex officio;
 - (l) Financial Advisor, dealing with the Human Resource Development Ministry or Department of the Central Government, ex officio;
 - (m) One offer not below the rank of Joint Secretary to the Government of India in the Ministry or Department of Central Government having administrative control of the Technical Education, ex officio, as Member-Secretary.

11.2 Board of Governors

1. Ms Sushma Berlia Chairperson
 President, Education Promotion Society of India
 and Immediate Past President, PHD, Chamber of Commerce,
 Apeejay Satya Group,
 14, Commercial Complex,
 Masjid Moth, Greater Kailash-II
 New Delhi-110048.

2.	Sh N K Sinha, IAS Joint Secretary (T) Ministry of Human Resource Development Department of Higher, Government of India, Shastri Bhawan, New Delhi-110001.	Member
3.	The Secretary to Government of Punjab, Department of Technical Education and Industrial Training, Mini Secretariat, Sector-9, Chandigarh-160009.	Member
4.	Dr Surendra Prasad, Director, Indian Institute of Technology, Hauz Khas, New Delhi-110016.	Member
5.	Dr K Narayana Rao, Member Secretary All India Council for Technical Education, Indira Gandhi Sports Complex, I.P.Estate, New Delhi.	Member
6.	Professor Avtar Singh, Head, Department of Educational Surveys and Data Processing, National Council for Education Research and Training, Sh Aurobindo Marg, Near Indian Institute of Technology, New Delhi.	Member
7.	Sh Shyam S Bhartia, Chairman and Managing Director, Jubliant Organosys Ltd., 1-A Sector 16-A, Industrial Area, Noida (UP).	Member
8.	Dr T S Banerjee, Director, Haldia Institute of Technology, Midnapur-2 (West Bengal).	Member
9.	Mr Tanmay Mukherji, Manager, M/s.Tech Force Composites Pvt.Ltd., 29/1, R S Shukla Nagar, Indore-452008.	Member
10.	Sh S K Ray, Financial Advisor, Finance Division, Ministry of Human Resource Development, Shastri Bhawan, New Delhi-110001.	Special Invitee
11.	Professor Rakesh Chandra, Head, Department of Mechanical Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar-144 001.	Member
12.	Sh A L Sangal, Registrar, Dr B R Ambedkar National Institute of Technology, Jalandhar.	Member
13.	Dr Moin Uddin, (upto 30.9.2010) Director Dr B R Ambedkar National Institute of Technology, Jalandhar	Member Secretary
	Dr S B S Mishra, Director (Officiating) From October, 2010	Member Secretary

11.3 Finance, Building and Works and other Committees**Finance Committee**

- | | | |
|----|---|---------------------------|
| 1. | Ms Sushma Berlia
President, Education Promotion Society of India
and Immediate Past President, PHD, Chamber of Commerce,
Apeejay Satya Group,
14, Commercial Complex,
Masjid Moth, Greater Kailash-II
New Delhi-110048. | Chairperson |
| 2. | Sh S K Ray,
Finance Division, Ministry of Human Resource Development,
Shastri Bhawan, New Delhi-110001. | Member Financial Advisor, |
| 3. | Sh Madan Mohan,
Director (NITs).
Ministry of Human Resources Development,
Department of Higher Education,
Government of India, Shastri Bhawan,
New Delhi-110001 | Member |
| 4. | Dr Surendra Prasad,
Director,
Indian Institute of Technology,
Hauz Khas,
New Delhi-110016. | Member |
| 5. | Dr K Narayana Rao,
Member Secretary,
All India Council for Technical Education,
Indira Gandhi Sports Complex,
I.P.Estate,
New Delhi. | Member |
| 6. | Dr Moin Uddin, (upto 30.9.2010)
Director
Dr B R Ambedkar National Institute of Technology,
Jalandhar | Member |
| | Dr S B S Mishra, Director (Officiating) From October, 2010 | Member |
| 7. | Dr A L Sangal
Registrar
Dr B R Ambedkar National Institute of Technology
Jalandhar. | Member Secretary |

Building & Works Committee

1. Professor Moin Uddin (upto 30.9.2010)
Director & Chairman, BWC
Dr B R Ambedkar National Institute of Technology,
Jalandhar

Dr S B S Mishra, Director (Officiating) From October, 2010
2. Sh Madan Mohan,
Director (NITs)
Ministry of Human Resource Development,
Department of Higher Education,
Shastri Bhawan, New Delhi
3. Professor Avtar Singh,
Department of Education Measurement and Evaluation,
National Council for Education Research and Training,
Sh Aurobindo Marg, Near Indian Institute of Technology,
New Delhi-110016
4. Er Akilesh Kumar
Superintending Engineer (Civil)
CPWD, Jammu Central Circle,
Landoi Satwari Chownk, Jammu
5. Er A K Ahuja
Superintending Engineer, (Electrical)
CPWD, Kendrya Sadan,
Sector-9A, Chandigarh
6. Professor S P Singh
Dean, Infrastructure Planning & Development,
Dr B R Ambedkar National Institute of Technology,
Jalandhar-144011
7. Dr A L Sangal
Registrar
Dr B R Ambedkar National Institute of Technology
Jalandhar. Member Secretary

SENATE

1. Professor Moin Uddin, (upto 30.9.2010) Chairman
Director,
Dr B R Ambedkar National Institute of Technology,
Jalandhar.

Dr S B S Mishra, Director (Officiating) From October, 2010
2. Dr Jai Rup Singh,
Vice Chancellor,
Central University of Punjab,
Bathinda (Punjab).
3. Professor P C Upadhayay,
Pro Vice Chancellor,
Guru Ghasidas University
Bilaspur (Madhaya Pradesh).
4. Mrs Kamana Agrawal
Industrilienst
GDPA Fasteners,
Jalandhar.

- 5 Professor Arvind Agnihotri,
Dean, Academic Programmes
- 6 Professor Arvind Bhardwaj
Head, Department of Industrial Engineering
- 7 Professor Rakesh Chandra
Department of Mechanical Engineering
Dean, Research & Consultancy
- 8 Professor S P Singh,
Dean, Infrastructure & Planning Development
- 9 Professor Sarabjit Singh,
Dean, (Faculty Welfare)
- 10 Professor Ajay K Sharma,
Head, Department of Computer Science and Engineering
- 11 Professor A P Singh,
Department of Civil Engineering
- 12 Professor Arvinder Singh
Head, Deptt. of Physics
13. Professor B S Kaith,
Head, Department of Chemistry
- 14 Professor J N Chakraborty
Head, Department of Textile Technology
- 15 Professor Jaspal Singh Aujla,
Department of Mathematics
- 16 Professor Joseph A. Vaz,
Head, Department of Mechanical Engineering
- 17 Professor M K Jha
Head, Deptt. of Chemical Engineering
- 18 Professor N C Kothiyal
Department of Chemistry
19. Professor P K Chatley,
Head, Training and Placement Centre
- 20 Professor Partap Singh,
Head, Department of Civil Engineering
- 21 Professor R K Garg,
Head, Deptt. of Industrial & Production Engineering
- 22 Professor R K Sarin,
Head, Department of Electronics & Communication Engineering
23. Professor R Jha, (upto July, 2010)
Head, Department of Instrumentation and Control Engineering.
24. Professor, S. Ghosh
Department of Textile Technology
25. Dr Sheo Kumar,
Professor, Department of Mathematics
26. Dr A L Sangal,
Registrar

Secretary

OTHER COMMITTEES

S No	Name of the Committee	Chairman
1.	Discipline committee of senate	Professor S B S Mishra
2.	Senate committee on academic affairs	Professor S Ghosh
3.	Core committee on curriculum	Professor S B S Mishra
4.	Institute Purchase committee	Professor R Jha
5.	House Allotment committee	Professor S Ghosh
6.	Library committee	Professor N C Kothiyal
7.	Institute budget committee	Professor S B S Mishra
8.	Convocation committee	Professor R Jha
9.	Mock Accreditation Committee	Professor P K Chatley
10.	Committee for B Tech admissions and AIEEE	Professor A L Sangal
11.	Office automation and computerization	Professor A L Sangal
12.	Alumni activities	Professor Arvinder Singh
13.	TEQIP CELL	Professor Rakesh Chandra
14.	HRD and Hindi Cell	Professor A L Sangal
15.	Clubs and Hobbies	Professor N C Kothiyal
16.	Sports	Professor Rakesh Chandra

11.4 Research Projects and Consultation Jobs**Department of Chemical Engineering**

MHRD Sponsored project "Modernization of Chemical Process Control Laboratory" (8.0 lacs)

Department of Chemistry

Nanochemistry, Smart Polymers, Synthetic Organic Chemistry, Coordination Chemistry, Solution Thermodynamics, Physical Chemistry and Environmental Chemistry

Department of Civil Engineering

- The Department of Civil Engineering is continuously engaged in providing consultancy to various Governments, Semi Government and Private Organizations in the area of Structural Design of buildings, Water Tanks; soil exploration studies, Testing of Soil and other building materials such as Cement, Aggregates, Bricks, Steel etc, The Department is also engaged in the Design of Concrete Mixes of various grades. A number of assignments have been completed and are presently in hand. The total amount of consultancy carried out by the department is Rs. 16 lacs - during year 2010-2011 (as on date)

Computer Science and Engineering

On going project - Information Security Lab development under Information Security Awareness Programme (ISEA) of Ministry of Communication & Information Technology, New Delhi.

Department of Electronics and Communication Engineering

Project Title	Project Duration	Amount Received (Rs. in lacs)	Funding Agency	Status (Completed/ In progress)
SMDP-II	5 yrs	1.1 Crores	MCIT, Govt. of India	In Progress
Soft computing based techniques for modeling of medical imaging systems	3.5 yrs	8.00	MHRD	Completed
Investigations on Reconfigurable Computing	3.5 yrs	8.00	MHRD	Completed

Department of Instrumentation and Control Engineering

- Design and Development of Underwater Robot: (In Progress), Funding agency Dr. BR Ambedkar National Institute of Technology Jalandhar.
- Over 150 ECGs recorded for ongoing project 'ESTABLISHMENT OF A DATABASE OF ECGs RECORDED FROM A HEALTHY NATIVE INDIAN POPULATION' in collaboration with Prof. P.W. Macfarlane, University of Glasgow; Prof. Vinod Kumar, IIT Roorkee; Dr. S.T. Hamde & Mrs.V.R. Thool, SGGS Institute of Engineering & Technology, Nanded.
- VSAT-Enabled Mobile e-Learning Terminals, a project under National Mission on Education through Information and Communication Technology of Ministry of Human Resource Development, Government of India.

The following activities have been carried out in collaboration with industries and institutions:

Consultancy services completed / on going

Sr No	Industries / Institutions	Nature of Activity
1	IIT Roorkee	Performance testing and evaluation of Small hydro Plants (MoU Signed) on Jan 30, 2010
2	IIT Roorkee, University of Glasgow and S.G.G.S. Institute of Engg. & Technology, Nanded, Maharashtra	Collaborative ECG data collection for standard database on Indian population (MoU Signed) on 20.02.2010
3	Ministry of Railways	Installation of robot for railway at northern Railways (Ambala Cantt railway station) for cleaning the tracks and external parts of the train (in process)

Department of Physics**i) Project Completed**

S.No.	Title of the Project	Funding Agency
1.	Electrical Properties of Polymers	Ministry of Human Resource Development, Govt. of India.
2.	Modernization of Removal of Obsolescence of Applied Physics Lab.	Ministry of Human Resource Development, Govt. of India.
3.	Modernization of Removal of Obsolescence of Fiber Optic and Laser Lab	All India Council of Technical Education, New Delhi.

ii) Projects on going :

S.No.	Title of the Project	Funding Agency	Funding
1.	Hyperon Semi-leptonic Weak Decays in Chiral Constituent Quark Model PI: Dr Harleen Dahiya	Department of Science and Technology, New Delhi	Rs. 11 lac.
2.	Electromagnetic form factors at low Q ² PI: Dr Harleen Dahiya	Department of Atomic Energy, BRNS, BARC, Mumbai	Rs. 12 lac.
3.	Measurement of Radon, Thoron and their Progeny Distribution in the Different types of houses in Mansa, Bhatinda, Faridkot and Muktsar districts of Punjab PI: Dr Rohit Mehra	Department of Atomic Energy, BRNS, BARC, Mumbai	Rs. 26 lac.

iii) **Projects Submitted**

S.No.	Title of the Project	Funding Agency
1.	Electro-optic and dielectric properties in nanomaterials dispersed ferroelectric liquid crystals PI: Dr Parveen Malik	Department of Science & Technology, New Delhi

Department of Textile Engineering**On going Project**

S.No.	Dr. S Ghosh	FIST, DST	Rs. 59 lacs
1.	A Mukherjee	Designing Nonwoven fabric for pulse jet filtration	Rs.15 Lac
2.	A Chatterjee	Optimisation of production process of PP/Carbon nanofibre composite filament	Rs. 22 Lac
3.	V Midha	Development of Needle Punched Nonwoven Blanket Fabric	Rs. 15 Lac

Centre of Training & Placement

Name of the funding agency	Project Title	Status
TIFAC	Technology gap study in the bicycle parts manufacturing cluster at Ludhiana	In Progress

11.5 Faculty Positions available at Sr. No. 2.12**11.6 Administrative position available at Sr. No. 2.12****11.7 Staff Members deputed/Sponsored for Workshop/training, learning****A. Faculty members sponsored for International Conferences Abroad (2010-2011)**

S.No	Name of the faculty	Designation	Deptt.	Event	Dates
1	Dr. Rizwan Khan	Assistant Professor	CE	29 TH International Conference on Ocean, Offshore and Arctic Engineering held at Shanghai, China	June 6-11, 2010
2	Mrs. Geeta Sikka	Assistant Professor	CS	2 ND International Conference on Education Technology and Computers (ICETC) held at Shanghai, China	June 22-24, 2010
3	Dr. N. C Kothiyal	Professor	CY	5 th International Conference Science and Technology held at Houston. Texas, USA	12.07.2010 to 16.07.2010
4	Mr. Rajesh Singla	Assistant Professor	IC	International Conference World Congress in Engineering 2010 held at U.K	30.06.2010 to 02.07.2010
5	Dr. Rajiv Kumar	Associate Professor	IP	International conference "world congress on engineering-WCE-2010 at London, UK	30.06.2010 to 02.07.2010
6	Dr. Rohit Mehra	Assistant Professor	PH	International conference on Energy, Environment, Sustainable Development" held in Paris , France	Jun 24-26, 2009
7	Dr. Rohit Mehra	Assistant Professor	PH	"Environmental thoron and related issues" and Thoron Intercomparison of Active Methods" Conference held at NIRS, Chiba , Japan	19.05.2010 to 22.05.2010

8	Dr. Arvinder Singh	Professor	PH	International Conference Frontiers of Nonlinear Physics to be held at Nizhniy Navgorod, Russia	July 13-20.2010
9	Dr. Praveen Malik	Assistant Professor	PH	International Liquid Conference (ILCC2010) held at Krakow Poland	July 11-16, 2010
10	Mr. A K Chaudhury	Associate Professor	TT	International Conference FI LTECH-2009 held at Wiesbaden, Germany	Oct 13-15. 2010
11	Dr. Sujit Kumar Sinha	Associate Professor	TT	AUTEX2010 10 TH World Textile Conference held at Vilnius, Lithuania	21.06.2010 to 23.06.2010
12	Dr. Arobindoo Chatterjee	Associate Professor	TT	AUTEX2010 10 TH World Textile Conference held at Vilnius, Lithuania	21.06.2010 to 23.06.2010
13	Mr. Manas Datta Roy	Associate Professor	TT	AUTEX2010 World Textile Conference held at Vilnius , Lithuania	21.06.2010 to 23.06.2010
14	Dr. Raman Bedi	Assistant Professor	ME	14 TH European Conference Materials held at Budapest, Hungary	07.06.2010 to 10.06.2010
15	Dr. A Mukhopadhyay	Professor	TT	International conference on "The Textile Institute Centenary" held at Manchester, UK	02.11.2010 to 04.11.2010
16	Dr. Vinay Midha	Associate Professor	TT	International conference on "The Textile Institute Centenary" held at Manchester, UK	02.11.2010 to 04.11.2010
17	Mr. Jatinder Kumar	Assistant Professor	CH	International Conference on The World Congress on Engineering and Computer Science (WCECS 2010) held at San Francisco, USA	20.10.2010 to 22.10.2010
18	Dr. R K Garg	Professor	IP	"Status of continuity and charge forces in India industry" in International University Malaysia	11.11.2010 to 12.11.2010
19	Mr. Kuldeep Singh Nagla	Assistant Professor	IC	39 TH International Workshop on Applied Pattern Recognition" held at Washington DC, USA	13-15 Oct 2010
20	Mr. Rajesh Singla	Assistant Professor	IC	"6 th IEEE Inter national Conference on Wireless and Mobile Computing , Networking and Communication WiMob 2010" held at Toronto, Canada	11-13 Oct, 2010
21	Mr. Anish Kumar Sachdeva	Assistant Professor	IP	International conference on system engineering management 2010 held at San Francisco, USA	20.10.2010 to 22.10.2010
22	Dr. Arvind Bhardwaj	Professor	IP	International Conference on Manufacturing and industrial engineering held at Amsterdam, The Netherlands	28.09.2010 to 30.09.2010
23	Mr. S. Bajpai	Assistant Professor	CH	"Hexavalent Chromium removal using temarandus indica bio material" in 3 rd International Congress of Environmental Research" held at University of Mauritius, Reduit Mauritius	16.09.2010 to 18.09.2010

24	Mr. N.K. Srivastava	Assistant Professor	CH	3 rd International Congress of Environmental Research” held at University of Mauritius, Reduit Mauritius	16.09.2010 to 18.09.2010
25	Dr. A. P Singh	Professor	CE	“Strength and Permeability relationship of steel fibrous concrete strength and permeability of steel fibrous concrete on our world in concrete & structures” held at Singapore	26.08.2010 to 27.08.2010
26	Mr. Davinder Singh	Assistant Professor	CE	3 rd international congress of environmental research” held at university of Mauritius, Reduit	16.09.2010 to 18.09.2010
27	Dr. M.K Jha	Professor	CH	3 rd International Congress of environmental research held at university of Mauritius, Reduit	16.09.2010 to 18.09.2010
28	Dr. N.C. Kothiyal	Professor	CY	3 rd International Congress of Environmental Research” university of Mauritius, Reduit	16.09.2010 to 18.09.2010
29	Mr. Lakhwinderpal Singh	Assistant Professor	IP	3 rd International Congress of Environmental Research” university of Mauritius, Reduit	16.09.2010 to 18.09.2010
30	Mr. Ajay Gupta	Associate Professor	IP	“International conference on Mechanical and Industrial Engineering” held at Singapore	25.08.2010 to 27.08.2010
31	Dr. Harsh k. Verma	Associate Professor	CSE	International Conference on Communication & IT Education ICCITE 2010” held at Paris, France	28.06.2010 to 30.06.2010
32	Dr. H. M Mittal	Associate Professor	PH	International Symposium on Nuclear Symmetry Energy” held at RIKEN Wako, Japan	26.07.2010 to 28.10.2010
33	Dr. Praveen Malik	Assistant Professor	PH	23 rd International Crystal Conference (ILCC) held at Krakow, Poland	11.07.2010 to 16.07.2010
34	Dr. A.L Sangal	Professor	CSE	International Conference on Wireless Networks (ICWN’10) held at Las Vegas, Nevada, USA	July 12-15, 2010
35	Dr. Sarabjeet Singh	Professor	PH	2 ND International Conference on Computational Intelligence, Communication Systems and Networks held at Liverpool, UK	July 28-30, 2010
36	Dr. R.K Sarin	Professor	ECE	2 nd International Conference on Computational Intelligence, Communication System and Networks, held at Liverpool, UK	July 28-30, 2010
37	Dr. Renu Dhir	Associate Professor	CSE	“International Conference on Education Technology and Computer (ICETC 2010) held at Shanghai , China	22.06.2010 to 24.06.2010
38	Dr. H. M.Mittal	Associate Professor	PH	“Study of Triaxially in Xe- pt-Nuclei” In the international Nuclear Physics Conference” held at Vancouver, Canada	04.07.2010 to 09.07.2010
39	Dr. Kumar Parag	Assistant Professor	HM	“Cross Cultural Perspective in Bharti Mukherjee’s Jasmine” in “Crossroads Conference-2010” held at Hong Kong	17.06.2010 to 21.06.2010

40	Dr. Rizwan A. Khan	Assistant Professor	CE	29 TH International Conference on Ocean, Offshore and Arctic Engineering held at Shanghai, China	06.06.2010 to 11.06.2010
41	Dr. Pramod Kumar	Associate Professor	ME	"The 2010 international congress on computer applications and computational science (CACs2010) held at Singapore	Dec 04-06,2010
42	Ms. Roop Pahuja	Associate Professor	IC	"International Conference on World Congress on Engineering & Computer Science-2010" held at San Francisco, USA	Oct 20-22, 2010
43	Mr. Ashish Raman	Assistant Professor	ECE	"The 2010 2 nd International Conference on Information and Multimedia Technology ICIMT 2010" HELD AT Hong Kong	Dec 28.30, 2010
44	Dr. Arvinder Singh	Professor	PH	International Toki Conference (ITC 20) on the Next twenty years in plasma and fusion science at Japan	Dec 07-12 2010
45	Dr A.L Sangal	Professor	CSE	"The 2010 International Conference & Multimedia Technology (ICIMT 2010)" held at Hong Kong	Dec 28-30, 2010
46	Dr Rizwan A. Khan	Assistant Professor	CE	"Twelfth East Asia-Pacific Conference on structural Engineering & Construction (EASEC-12)" Held at Hong Kong	26-01-2011 to 28-01-2011
47	Dr Renu Dhir	Associate Professor	CSE	International Conference "Computer Information & System Science Engineering" held at Dubai, UAE	25-01-2011 to 27-01-2011
48	Dr A.L Sangal	Professor	CSE	"The 2011 International Conference of Information & Computer Application (ICICA 2011) held at Dubai, UAE	18-03-2011 to 20-03-2011
49	Dr Pramod Kumar	Associate Professor	ME	8 TH International Conference "Composite Science and Technology" held at Malaysia	22-03-2011 to 24-03-2011
50	Mr Manas Datta Roy	Associate Professor	TT	2 nd International Conference "Environment Science and Technology (ICEST-2011) held at Singapore	26-02-2011 to 28-02-2011
51	Mr Rajeev Trehan	Assistant Professor	TP	"Global Conference "Business & Finance" held at Las Vegas , USA	02-01-2011 to 05-01-2011
52	Dr B.S Saini	Associate Professor	ECE	International Conference (ICDDM 2011) held at Sanya, China	25-03-2011 to 27-03-2011
53	Ms Indu Saini	Assistant Professor	ECE	International Conference "(ICDDM 2011)" held at Sanya, China	25-03-2011 to 27-03-2011
54	Ms Neetu Sood	Assistant Professor	ECE	International Conference "(ICDDM 2011)" held at Sanya, China	25-03-2011 to 27-03-2011

55	Dr. Surinder Pal Singh	Professor	CE	"International Conference The Twelfth East Asia-Pacific Conference on Structural Engineering & Construction(EASEC-12)" held at Hong Kong	Jan 26-28, 2011
56	Dr. Amrit Pal Singh	Professor	CE	"International Conference The Twelfth East Asia-Pacific Conference on Structural Engineering & Construction(EASEC-12)" held at Hong Kong	Jan 26-28, 2011
57	Ms Monica Sikka	Assistant Professor	TT	International Conference "FILTECH-2011" held at Wiesbaden , Germany	22-03-2011 to 24-03-2011
58	Dr Harsh K Verma	Associate Professor	CSE	International Conference "Intelligent Information ICIIN-2011" held at Dubai , UAE	18-03-2011 to 20-03-2011
59	Mr Davinder Singh	Assistant Professor	CE	"Treatment of Domestic Wastewater using Moving Bed Reaction" In The 1th environment Asia International Conference " held at Bangkok, Thailand	22-03-2011 to 25-03-2011
60	Dr Jagwinder Singh	Assistant Professor	HUM	International Conference "Global Mindset Development in Leadership and Management" held at Los Angles , California , USA	04-03-2011 to 05-03-2011
61	Dr Vinay Midha	Associate Professor	TT	"Filtration of Gases using Textiles Filters" in International Conference "FILTECH-2011" held at Wiesbaden , Germany	22-03-2011 to 24-03-2011
62	Dr A Mukhopadhyay	Professor	TT	International Conference "FILTECH 2011" held at Wiesbaden , Germany	22-03-2011 to 24-03-2011
63	Mr A K Choudhary	Associate Professor	TT	"Materials for Temperature Gas Filtration" in International Conference "FILTECH 2011" held at Wiesbaden , Germany	22-03-2011 to 24-03-2011
64	Ms Geeta Sikka	Assistant Professor	CSE	International Conference "Database and Data Mining (ICDDM 2011) held at Sanya , China	25-03-2011 to 27-03-2011
65	Mr Rajeev Trehan	Assistant Professor	TP	International Conference "Global Mindset Development in Leadership and Management " held at Los Angles , California , USA	04-03-2011 to 05-03-2011
66	Dr Kumar Parag	Assistant Professor	HUM	International Conferences "ICSSH-2011" held at Singapore	26-02-2011 to 28-02-2011
67	Dr A K Jana	Professor	BT	The 2 nd International Conference "Environmental Science and Technology , ICEST-2011 held at Singapore	26-02-2011 to 28-02-2011

68	Mr Ajay Gupta	Associate Professor	IPE	International Conference "Manufacturing Systems Engineering (ICMSE-2011) held at Bangkok, Thailand	29-03-2011 to 31-03-2011
69	Dr Dilbag Singh	Associate Professor	ICE	International Conference "Electrical Computer, Electronics & Communication Engineering " held at Bangkok, Thailand	29-03-2011 to 31-03-2011
70	Dr Ramesh Kumar Sunkaria	Assistant Professor	ECE	International Conference "Electrical Computer, Electronics and Communication Engineering (ICEECE-2011) held at Bangkok, Thailand	29-03-2011 to 31-03-2011
71	Mr. Dinesh Kumar Shukla	Assistant Professor	ME	8 th International Conference "Composite Science and Technology " held at Malaysia	22-03-2011 to 24-03-2011
72	Dr Gurmej Singh Dhaliwal	Associate Professor	Phy. Edu	International Conference "Social Sciences " held at Bangkok, Thailand	29-03-2011 to 31-03-2011
73	Ms Indu Saini	Assistant Professor	ECE	International Conference (ICDDM 2011) held at Sanya, China	25-03-2011 to 27-03-2011
74	Rajeev Kumar Garg	Professor	IPE	International Conference "Robotics, Control and Manufacturing Technology (ROCOM 11) held at Venice, Italy	08-03-2011 to 10-03-2011
75	Mr Ajay Gupta	Associate Professor	IPE	"Winter Global Conference "Business & Finance" held at Las Vegas, USA	02-01-2011 to 05-01-2011
76	N K Srivastava	Assistant Professor	CH	International Conference "Environmental Supporting in Food and Energy Security: Crisis and Opportunity" held at Bangkok, Thailand	22-03-2011 to 25-03-2011

B. Faculty members sponsored for International Conferences within India (2010-2011)

S.No	Name of the faculty	Designation	Department	Event	Dates
1	Mr. Sarabjit Singh	Associate Professor	HM	International Conference on "Management and Valuation of Intangibles" at University business school, Punjab University Chandigarh	Dec 22-23, 2010
2	Dr. Jaspal Singh	Professor	MA	"Convex Functions and Matrix Inequalities" in International Congress of Mathematics at Hyderabad	19.08.2010 to 27.08.2010
3	Mr. Ajay Kumar	Assistant Professor	ME	International Conference on Recent advances in Mechanical Engineering (ICRAME-2010) at Tamilnadu	April 08-09, 2010
4	Dr, Pramod Kumar	Associate Professor	ME	International Conference on Recent advances in Mechanical Engineering (ICRAME-2010) at Tamilnadu	April 08-09, 2010

5	Dr. S.P Singh	Professor	CE	“Mean and Design Fatigue Lives of Hybrid Fibre Reinforced Concrete Beams in Flexure” In International Conference on “Innovative World of Structural Engineering” held at Aurangabad	17.09.2010 to 19.09.2010
6	Ms Rajneesh Rani	Assistant Professor	CSE	“A scheme for Script Identification of printed Punjabi words and English numerals in international conference on advances in communication, network and computing (CNC2010)” held at Calocut	04.10.2010 to 05.10.2010
7	Dr. Surinder P Singh	Professor	CE	International Conference on “Design & Construction of Urban Transport Structures” held at Hyderabad	April 23-25,2010
8	Dr. Renu Dhir	Associate Professor	CSE	International Conference Parallel Distributed and Grid Computing(PDGC-2010) held at Jaypee University of Information Technology, Wagnaghat, Solan, Himachal Pradesh	28.10.2010 to 30.10.2010
9	Dr. Pramod Kumar	Associate Professor	ME	International Conference “Theoretical Applied Computational and Experimental Mechanics” held at Indian Institute of Technology , Kharagpur	27.12.2010 to 29.12.2010
10	Dr. Rajeev Jindal	Associate Professor	CY	International Conference on “Environmental Challenges A Global Concern” held at Kanya Maha Vidyalaya, Jalandhar	15.10.2010 to 16.10.2010
11	Dr. Balbir Singh Kaith	Professor	CY	9 th International OIL & Gas Conference and Exhibition PETROTECH-2010” held at Vigyan Bhawan, New Delhi	31.10.2010 to 03.11.2010
12	Mr Nitai Basak	Assistant Professor	BT	International Conference on “Biomedical Engineering and Assistive Technologies (BEAT2010)” held at NIT Jalandhar	17.12.2010 to 19.12.2010
13	Dr. Dilbag Singh	Associate Professor	IC	“The 8 th International Conference on Hydraulic Efficiency Measurement (IGHM 2010) held at IIT Roorkee	21.10.2010 to 23.10.2010
14	Mr Nitai Basak	Assistant Professor	BT	International Conference on “Asia International Conference of Leather Science and Technology” held at Kolkata	12.11.2010 to 14.11.2010
15	Jyoti Bharj	Assistant Professor	PH	International Conference on “Methods & Models in Science & Technology (ICM2ST-10)” Held at National Institute of Technical Teachers & Research (NITTTR) Chandigarh	25-12-2010 to 26-12-2010
16	Dr Renu Dhir	Associate Professor	CSE	International conference on “Biomedical Engineering & Assistive Technologies (Beat 2010)” held at NIT Jalandhar	17-12-2010 to 19-12-2010
17	Dr A.K Jana	Professor	BT	International Conference on “Biomedical Engineering and Assistive Technologies (BEAT 2010)” held at NIT Jalnadhar	17-12-2010 to 19-12-2010

18	Ms Sangeeta Garg	Associate Professor	CH	International Conference on "Biomedical Engineering and Assistive Technologies (BEAT 2010)" held at NIT Jalandhar	17-12-2010 to 19-12-2010
19	Ms Indu Saini	Assistant Professor	ECE	International conference on "Biomedical Engineering & Assistive Technologies (Beat 2010)" held at NIT Jalandhar	17-12-2010 to 19-12-2010
20	Ms Mamta Khosla	Associate Professor	ECE	International conference on "Biomedical Engineering & Assistive Technologies (Beat 2010)" held at NIT Jalandhar	17-12-2010 to 19-12-2010
21	Mr Sarabjit Singh	Associate Professor	HUM	2 ND international conference "Production and Industrial Engineering (CPIE-2010) held at NIT , Jalandhar	03-12-2010 to 05-12-2010
22	Mr Sarabjit Singh	Associate Professor	HUM	International conference on "Biomedical Engineering & Assistive Technologies (Beat 2010)" held at NIT Jalandhar	17-12-2010 to 19-12-2010
23	Dr Rajiv Kumar	Associate Professor	IP	2 ND international conference "Production and Industrial Engineering (CPIE-2010) held at NIT , Jalandhar	03-12-2010 to 05-12-2010
24	Dr Pramod Kumar	Associate Professor	ME	International Conference "Theoretical Applied Computational and Experimental Mechanics " held at Indian Institute of Technology held at Kharagpur	27-12-2010 to 29-12-2010
25	Ms Rubal Preet	Assistant Professor	CH	2 ND international conference "Production and Industrial Engineering (CPIE-2010) held at NIT , Jalandhar	03-12-2010 to 05-12-2010
26	Ms Sangeeta Garg	Associate Professor	CH	2 ND international conference "Production and Industrial Engineering (CPIE-2010) held at NIT , Jalandhar	03-12-2010 to 05-12-2010
27	Dr Jaspal Singh Aujla	Professor	MA	Annual Conference "Indian Mathematical Society" held at NIT Surat	27-12-2010 to 30-12-2010
28	Dr Harsh Mohan Mittal	Associate Professor	PH	"DAE Symposium on Nuclear Physics" held at Birla Institute of Technology & Science , Pilani , Rajasthan	20-12-2010 to 24-12-2010`
29	Dr Gurmej Singh	Associate Professor	Physical Education	2 ND international conference "Production and Industrial Engineering (CPIE-2010) held at NIT , Jalandhar	03-12-2010 to 05-12-2010
30	Ms Rajneesh Rani	Assistant Professor	CSE	International Conference for Indian Languages (ICISIL-2011) held at Punjabi University , Patiala	09-03-2011 to 11-03-2011
31	Dr Harsh Kumar	Assistant Professor	CY	International conference on Emerging Trends in Chemistry" held at Punjab University , Chandigarh	11-02-2011 to 12-02-2011
32	Dr Jaspal Singh	Professor	MA	"Norm inequality" in International Conference "recent trends in algebra and analysis" held at DAV College , Jalandhar	04-02-2011 to 06-02-2011

33	Dr Sarabjeet Singh	Professor	PH	International Conference "Communication & Signal processing (ICCOS'11) held at Karunya University, Coimbatore	17-03-2011 to 18-03-2011
34	Dr Rajiv Jindal	Associate Professor	CY	International Conference on "Emerging Trends in Chemistry" held at , Punjab University , Chandigarh	11-02-2011 to 12-02-2011

C. Faculty members sponsored for National Conferences (2010-2011)

S.No	Name of the faculty	Designation	Deptt.	Event	Dates
1	Dr. Rajeev Jindal	Associate Professor	CY	National Symposium on Recent Advances in Analytical Sciences held at Himachal Pradesh University , Shimla (HP)	April 12-14 , 2010
2	Dr B.S Kaith	Professor	CY	National symposium on "Recent Advances in Analytical Science 3 rd NSAS" held at H.P University , Shimla(HP)	April 12 to 14 2010
3	Dr Rajeev Jindal	Associate Professor	CY	National symposium on "Recent Advances in Analytical Science 3 rd NSAS" held at H.P University , Shimla(HP)	April 12 to 14 2010
4	Dr Harsh Mohan Mittal	Associate Professor	PH	"DAE Symposium on Nuclear Physics" held at Birla Institute of Technology & Science , Pilani, Rajasthan	20.12.2010 to 24.12.2010
5	Dr M.K Jha	Professor	CH	National Seminar " Emergence of biotechnology in Process Industry – A Sustainability Growth & Clean World" held at Annamalai University, Tamilnadu	27.12.2010 to 29.12.2010
6	Dr Damanjit Kaur	Associate Professor	MA	55 TH Congress of the Indian Society of Theoretical and Applied Mechanics" held at National Institute of Technology Hamirpur	18.12.2010 to 21.12.2010
7	Dr Joseph Anand Vaz	Professor	ME	National conference "Industrial Problems on machines and Mechanisms-(ProMM 2010)" held at Malviya NIT , Jaipur	17.12.2010 to 18.12.2010
8	Dr Harleen Dahiya	Assistant Professor	PH	Symposium on High Energy Physics held at LNM Institute of Information Technology , Jaipur	13.12.2010 to 18.12.2010
9	Dr Rajiv Jindal	Associate Professor	CY	National Conference on "Biotechnology -2011" held at HICC , Hyderabad	21-03-2011 to 23-03-2011

D. Faculty members sponsored for Short Term Courses/Workshops (2010-2011)

S.No	Name of the faculty	Designation	Deptt.	Event	Dates
1	Mr. Davinder Dingham	Assistant Professor	CE	STC on "Climate change and its Impact on Water Resources" held at NIT Hyderabad, Roorkee	May 17-21, 2010
2	Mr Lakhwinder Pal Singh	Assistant Professor	IP	STC on "Occupational Health & Safety" at New Delhi	April 12-16, 2010
3	Mrs. Indu Saini	Assistant Professor	EC	Short Term Course on Instrumentation and Signal Processing, NIT Srinagar	June 21-25, 2010
4	Dr. Harleen Dahiya	Assistant Professor	PH	"GRIBOV-80 Memorial Workshop" on Quantum Chromo dynamics and Beyond held at Trieste	26-05-2010 to 28-05-2010
5	Dr B.S Saini	Associate Professor	EC	STC on "Ultrasound Imaging Processing & Clinical Applications" at IIT , Roorkee	January 27-29 , 2010
6	Dr N bhowmick	Associate Professor	TT	Workshop on Process and Quality Control in Textile Industries held at IIT Delhi	April 22-23, 2010
7	Mr S.K Tiwari	Assistant Professor	ME	Training Program on "Balancing & Alignment" held at SKF RMI, Pune	June 01-03, 2010
8	Sh Ajay Trehan	Assistant Professor	ME	Training Program on "Balancing & Alignment" held at SKF RMI, Pune	June 01-03, 2010
9	Dr Parmod Kumar	Associate Professor	ME	Training Program on "Balancing & Alignment" held at SKF RMI, Pune	June 01-03, 2010
10	Dr Sanjeev Gupta	Assistant Professor	HUM	Summer Course on "Time Series Modelling and Analysis" held at Queen Mary University, London , UK	June 28-30 2010
11	Dr Rajeev Kukreja	Associate Professor	ME	STC on "Fundamentals of Micro scale Heat Transfer" Bowling Condensation single phase and two phase flows" held at Lausanne, Switzerland	June 07-11, 2010
12	Dr Anish Sachdeva	Assistant Professor	IP	Training Program on Simulation and Modelling organized by Production Modeling India Pvt, Ltd at Nagpur	June 24-26, 2010
13	Sh Ajay Gupta	Associate Professor	IP	Training Program on Simulation and Modelling organized by Production Modeling India Pvt, Ltd at Nagpur	June 24-26, 2010
14	Dr. Harleen Dahiya	Assistant Professor	PH	International Workshop on Light Cone 2010 held at Valencia, Spain	June 14-18, 2010
15	Dr Moin Uddin	Director	NIT	Summer School on "Instrumentation and Signal Processing" held at NIT , Srinagar	June 21-25, 2010
16	Ms Monika Sikka	Assistant Professor	TT	STC on "Fundamentals of Textile Machines and Mechanisms" held at IIT , Delhi	June 21-25, 2010
17	Mr Shalabh Kumar Tiwari	Assistant Professor	ME	STC on "Advanced Characterization Techniques of Materials held at Ecole Polytechnic Federale de Lausanne EPFL, in Lausanne, Switerland	Oct 25-27, 2010
18	Mr Raman Bedi	Assistant Professor	ME	STC on "Advanced Characterization Techniques of Materials held at Ecole Polytechnic Federale de Lausanne EPFL, in Lausanne, Switerland	Oct 25-27, 2010

19	Mr Dilbagh Singh	Associate Professor	IC	Training Program on "Test Facilities" held at Central Power Research Institute, Bangalore	Sep 06-10, 2010
20	Dr R.K Garg	Professor	IP	Short Term Course on "Values Driver Leadership" held at Administrative Staff College of India, Hyderabad	Sep 13-15, 2010
21	Dr H.M Miital	Associate Professor	PH	Short Term Course on "Nuclear Radiations & Their Applications" Held at NITTTR, Chandigarh	Sep 20-24, 2010
22	Dr Rajeev Trehan	Assistant Professor	Training & Placement	Summer school on "Instrumentation and signal processing" held at NIT Srinagar	21.06.2010 to 25.06.2010
23	Ms Sheela Tiwari	Associate Professor	IC	STC on "Intelligent System Applications to the Smart Electric Grid Solutions" held at Indian Institute of Technology , Kanpur	15.11.2010 to 19.11.2010
24	Dr Ajay Bansal	Associate Professor	CH	63 RD The Indian Chemical Engineering Congress CHEMCIN-2010 Held at Annamalainagar/ Chaidambaram	27.12.2010 to 29.12.2010
25	Dr Arvind Bhardwaj	Professor	IPE	Attend the Management Development Programme on "Supply Chain Optimization with Analytical Models" held at IIM , Lucknow	09-03-2011 to 12-03-2011
26	Dr Praveen Malik	Assistant Professor	PH	STC on "The Essentials of Nanophase and Nanostructured Materials" held at Indian Institute of Technology, Roorkee	21-02-2011 to 25-02-2011
27	Dr A K Jain	Professor	ICE	International Workshop on "Biomedical Science and Technologies (IWBMS-2011) held Anna University, Chennai	02-03-2011 to 04-03-2011
28	Dr Sheo Kumar	Professor	MA	STC on "Solution of advection-diffusion equation based on cubic B-spline finite element method" held at Institute of Technology , Banaras Hindu University , Varanasi	25-03-2011 to 27-03-2011
29	A Mukhopadhyay	Professor	TT	Management Development Programme on "Multivariate Data Analysis"	04-07-2011 to 09-07-2011
30	Mr S K Pahuja	Associate Professor	ICE	STC on "Digital Image Processing and Analysis for Remote Sensing" held at Indian Institute of Technology , Bombay	18-07-2011 to 22-07-2011
31	Dr Ramesh Kumar Sunkaria	Assistant Professor	ECE	STC on "Medical Signals Image Processing" Held at Indian Institute of Technology, Roorkee	13-06-2011 to 17-06-2011

11.8 Courses and Admission

Name of Programme	Batch Year	Actual number of Students (FT + PT)	Boys	Girls
B. Tech	2010	719	591	128
M. Tech (FT)	2010	108	90	18
M. Tech (PT)	2010	32	18	14
M.Sc	2010	42	10	32
Ph.D	2010	05	02	03
Ph. D (Part Time)	2010	06	05	01
Total:		912	716	196

11.9 Scholarship and Awards

SCHOLARSHIP RECEIVED DURING THE YEAR 2009-10.

01.04.10 to 31.03.11

Sr.No.	Name of Students	Roll No.	Branch	Amount	Source
1.	Pratik Prakash Bharti	08104048	EC	35,350/-	Distt.Welfare Officer,Saran
2.	Vikas Kumar	09113050	IP	50,600/-	Distt.Welfare Officer, Bihar
3.	Gaurav Kumar	09104025	EC	6,000/-	NCERT
4.	Harsimran Preet Singh	09103030	CS	6,000/-	NCERT
5.	Jasleen Chhabra	09106032	IC	6,000/-	NCERT
6.	Ramtek Mayur	09106042	IC	46,460/-	District welfare social office, Nagpur
7.	Shashi kumar	09104083	EC	24,260/-	Distt.Welfare Officer,Bihar
8.	Pawan Kumar Fulfakia	09112047	CM	11,815/-	Distt.Welfare Officer,Dhan(MP)
9.	Kime yam	09111002	BT	10,600/-	NEC
10.	Ram Shankar Yadav	09106057	IC	42,500/-	Distt.Welfare Officer, Madhuban
11.	Abhishek rajgadia	09104002	EC	62,474/-	MEA Nepal
12.	Aditya Pandey	09104003	EC	60,836/-	MEA Nepal
13.	Deepesh Giri	09109032	ME	63,362/-	MEA Nepal
14.	Gunjan Maheswari	09103026	CS	60,230/-	MEA Nepal
15.	Guru Prasad Dehal	09109042	ME	54,984/-	MEA Nepal
16.	Kannal Bahadur Karki	09104035	EC	66,426/-	MEA Nepal
17.	Krishna Protharkal	09103041	CS	60,230/-	MEA Nepal
18.	Shailendra Kumar Sah	09104082	EC	61,991/-	MEA Nepal
19.	Shiva Prasad Kafle	09109079	ME	54,932/-	MEA Nepal
20.	Sushil Tripathi	09103085	CS	63,594/-	MEA Nepal
21.	Anik Yadav	09103009	CE	54,000/-	MEA Nepal
22.	Pankaj karn	09104055	EC	21,600/-	MEA Nepal
23.	Ravi Anand	09104071	EC	62,515/-	MEA Nepal
24.	Bikesh Chaudhary	09104012	EC	55,338/-	MEA Nepal
25.	Maninder Singh	09102041	CE	43,500/-	District welfare Office, Jalandhar

26.	Sukhpreet Singh	09109082	ME	43,500/-	District welfare Office, Jalandhar
27.	Balbir singh	09109026	ME	43,500/-	District welfare Office, Jalandhar
28.	Gagandeep Singh Chadha	09102029	CE	43,500/-	District welfare Office, Jalandhar
29.	Manpreet Singh	09102044	CE	43,500/-	District welfare Office, Jalandhar
30.	Rupinder Pal Singh Aulakh	09109073	ME	5400/-	District welfare Office, Jalandhar
31.	Ansari Shamen	09109014	ME	32,950/-	Directorate of tribal affairs, J&K
32.	Chand Mondal	09109027	ME	45,000/-	Port Blair
33.	Pankaj Kumar	08110033	TT	34,200/-	Distt.Welfare Officer, Patna
34.	Khundrapan Anil Singh	09104037	EC	1520/-	Ministry of SJE, Govt of India
35.	Agyapreet	10210101	TT	30,000/-	Distt.Welfare Officer,HP
36.	Mukuram Sobman Raj	09106044	IC	35,000/-	SWD,Medak
37.	Harman Singh	08109023	ME	43,500/-	District social welfare office, Jalandhar
38.	Prabhsimran Singh	08110004	CM	38,500/-	District social welfare office, Jalandhar
39.	Mandeep Singh	08106034	IC	38,500/-	District social welfare office, Jalandhar
40.	Krininderjeet Kaur	08110009	CM	43,500/-	District social welfare office, Jalandhar
41.	Mahesh Shrestha	08104040	EC	32,400/-	EDCII
42.	Bimal Raj joshi	08104013	EC	32,400/-	EDCII
43.	Subhash Poundel	08104067	EC	32,400/-	EDCII
44.	Mahendra Bhujal	08104031	EC	32,400/-	EDCII
45.	Binay Shah	08104014	EC	32,400/-	EDCII
46.	Abhinash Jha	08104010	EC	32,400/-	EDCII
47.	Jagdeesh Choudhary	08113054	EC	32,400/-	EDCII
48.	Anoop Jalan	09204102	VLSI	45,000/-	EDCII
49.	Anoop Jalan	09204102	VLSI	15,000/-	EDCII
50.	Mahesh Shrestha	08104040	EC	10,800/-	EDCII
51.	Bimal Raj joshi	08104013	EC	10,800/-	EDCII
52.	Subhash Poundel	08104067	EC	10,800/-	EDCII
53.	Mahendra Bhujal	08104031	EC	10,800/-	EDCII
54.	Binay Shah	08104014	EC	10,800/-	EDCII
55.	Abhinash Jha	08104010	EC	10,800/-	EDCII
56.	Jagdeesh Choudhary	08113054	EC	10,800/-	EDCII
57.	Anoop Jalan	09204102	VLSI	60,000/-	EDCII
58.	Mahesh Shrestha	08104040	EC	43,200/-	EDCII
59.	Bimal Raj joshi	08104013	EC	43,200/-	EDCII
60.	Subhash Poundel	08104067	EC	43,200/-	EDCII
61.	Mahendra Bhujal	08104031	EC	43,200/-	EDCII
62.	Binay Shah	08104014	EC	43,200/-	EDCII
63.	Abhinash Jha	08104010	EC	43,200/-	EDCII

64.	Jagdeesh Choudhary	08113054	EC	43,200/-	EDCII
65.	Ranjan Kumar	08110032	TT	39,000/-	District welfare officer, Bihar
66.	Kapish Gupta	08111003	BT	3600/-	Directorate of Tech Edu. H.P.
67.	Stanzin Rewang	08111019	BT	32,950/-	Directorate of Tribal Affairs J&K
68.	Tsewang gurmet	08102071	CE	32,950/-	Directorate of Tribal Affairs J&K
69.	Nourat Mal	08102046	CE	660/-	Deputy Directorate Social justice, Ajmer
70.	Nourat Mal	08102046	CE	2640/-	Deputy Directorate Social justice, Ajmer
71.	Sandeep Kumar	08110028	TT	31,880/-	Director Social welfare UP
72.	Shaswant Kumar	08106068	IC	34,140/-	Director Social welfare UP
73.	Deepak Kumar	08113012	IP	28,140/-	Director Social welfare UP
74.	Ravi Kumar	08113023	IP	28,140/-	Director Social welfare UP
75.	Ishan Chawla	08104024	EC	6000/-	NCERT Delhi
76.	Anahita Agarwal	08113006	IP	6000/-	NCERT Delhi
77.	Sidhant Sachdeva	08104065	EC	6000/-	NCERT Delhi
78.	Ishan Chawla	08104024	EC	6000/-	NCERT Delhi
79.	Anahita Agarwal	08113006	IP	6000/-	NCERT Delhi
80.	Manash Dipto Dey	08113077	IP	18000/-	ICCR
81.	Manash Dipto Dey	08113077	IP	13500/-	ICCR
82.	Manash Dipto Dey	08113077	IP	13500/-	ICCR
83.	Manash Dipto Dey	08113077	IP	13500/-	ICCR
84.	Manash Dipto Dey	08113077	IP	13500/-	ICCR
85.	Manash Dipto Dey	08113077	IP	13500/-	ICCR
86.	Jatindera Kumar	08109026	ME	18,630/-	Welfare Dept SC/ST/OBC/Min. of NCT Delhi
87.	Jatindera Kumar	08109026	ME	19,440/-	Welfare Dept SC/ST/OBC/Min. of NCT Delhi
88.	Manish Kumar	08112051	CM	19,440/-	Welfare Dept SC/ST/OBC/Min. of NCT Delhi
89.	Sajini P T	07102045	CE	44,580/-	Office of Sc Development Dept. Kerala
90.	Vijesh V	07102050	CE	55,678/-	Office of Sc Development Dept. Kerala
91.	Abhilash K	07106002	IC	23,100/-	Office of Sc Development Dept. Kerala
92.	Ravinder Kumar Singh	07109057	ME	41,000/-	District welfare office Jhajar, Haryana
93.	Khushalkumar Raut	07111019	BT	33,500/-	District welfare office Gadchiroli (MH)

94.	Kulwinder Pal Kaur	07104028	EC	37,800/-	District welfare office sirsa
95.	Rajib Acharya	07109060	ME	10,800/-	EDCIL
96.	Peeyush Pandey	07104063	EC	10,800/-	EDCIL
97.	Abhinash Kumar Deo	07109059	ME	10,800/-	EDCIL
98.	Rabindra Sah	07104042	EC	10,800/-	EDCIL
99.	Bishawjeet Kumar Jha	07104062	EC	10,800/-	EDCIL
100.	Alok Mishra	07109058	ME	10,800/-	EDCIL
101.	Jaisan Deep Bharaj	07104025	CSE	6000/-	Edcil
102.	Bhaskar Jyoti Hajarika	07105009	IP	13,580/-	Directorate of welfare of SC Assam
103.	Anoop Sharma	07106009	ME	3600/-	Directorate of Tech Edu. Sundernagar HP
104.	Neeraj Bhardwaj	07111014	BT	3600/-	Directorate of Tech Edu. Sundernagar HP
105.	Arshdeep Singh	07105007	CE	6000/-	
106.	K V Smitha	07101014	CB	45,413/-	Directorate of Sc deve. Kanaka Nagar Kerala
107.	Deepankar Goswami	07101009	CB	3600/-	Directorate of higher edu. Agartala
108.	Angad singh	07105005	CE	6000/-	NCERT
109.	Bindu Jangpangi	07104014	EC	38,460/-	District welfare office, Utrakhnad
110.	Sonam Wangchok	07106045	ICE	21,100/-	Director of Tribal Affairs, J&K
111.	Jigmet Toddan	07105016	IP	21,100/-	Director of Tribal Affairs, J&K
112.	Tsering Angchuk	07105051	IP	21,100/-	Director of Tribal Affairs, J&K
113.	Abhilash K	07106002	ICE	62,398/-	Office of Directorate of SC Dev. Kerala
114.	Phuntsok Dawa	07102056	CE	32,950/-	Director of Tribal Affairs, J&K
115.	Tsering Angchuk	07105051	IP	32,950/-	Director of Tribal Affairs, J&K
116.	Sonam Wangchok	07106045	ICE	32,950/-	Director of Tribal Affairs, J&K
117.	Jigmet Toddan	07105016	IP	32,950/-	Director of Tribal Affairs, J&K
118.	Vijesh V	07102050	CE	48,226/-	Office of Sc Development Dept. Kerala
119.	Sajini P T	07102045	CE	42,068/-	Office of Sc Development Dept. Kerala
120.	Ankit Saxena	07105052	IP	28,880/-	Social welfare society UP
121.	Rajib Acharya	07109060	ME	43,200/-	EDCIL
122.	Peeyush Pandey	07104063	EC	43,200/-	EDCIL
123.	Abhinash Kumar Deo	07109059	ME	43,200/-	EDCIL

124.	Rabindra Sah	07104042	EC	43,200/-	EDCIL
125.	Bishawjeet Kumar Jha	07104062	EC	43,200/-	EDCIL
126.	Alok Mishra	07109058	ME	43,200/-	EDCIL
127.	Angad Singh	07105005	CE	6000/-	NTSC Delhi
128.	Partha Protim Ray	07104041	EC	10,600/-	Directorate of higher Edu. Tripura
129.	Tapi Richo	07103054	CS	6600/-	Directorate of Tech Edu. Arunachal Pradesh
130.	K V Smitha	07106014	CBE	23,100/-	Directorate of Sc Devpt Kerala
131.	Deepak	07103014	CSE	19,440	SC/ST welfare Dept of Delhi
132.	Khushal Kumar	07111019	BT	33,500/-	Integrated tribal dev project Gad chirroli
133.	Nitish sikka	07106034	IC	6000/-	NCERT Delhi
134.	Jaisandeep Bharaj	07104025	CS	6000/-	
135.	Rajesh kumar	06105032	IP	27,400/-	Social Welfare Jammu
136.	Ajay Kumar	06109003	ME	27,400/-	Social Welfare Jammu
137.	Jaspreet Kaur	06104022	EC	43,500/-	District welfare office jalandhar
138.	Tarun Kumar	06104059	EC	20,000/-	Welfare Dept delhi
139.	Ankit Singh	06104061	EC	20,000/-	Welfare Dept delhi
140.	Meenu	06102021	EC	6000/-	NTSE
141.	Utkarsh Bibhas gupta	10109086	ME	32,400/-	Edcil
142.	Samridha Pyakumel	10109075	ME	32,400/-	Edcil
143.	Aman Chaudhary	10109012	ME	32,400/-	Edcil
144.	Bijendra Kumar yadav	10109023	ME	32,400/-	Edcil
145.	Nitesh	10113048	IP	19,440/-	NCT Delhi

11.10 Training & Placement Statistics

Branch	Total No. of Eligible Students	No. of Job Offers	No. of Double Job offers	No. of Students Placed
CSE	55	76	19	57
ECE	48	61	12	49
ICE	46	56	7	49
ME	49	45	4	41
INE	40	27	1	26
CBE	27	21	1	20
CE	30	31	0	31
TT	19	14	0	14
LT	0	0	0	0
G.Total	314	331	44	287

11.11 Department wise-details

DEPARTMENT OF BIOTECHNOLOGY

1. ACADEMIC PROGRAMME

- B.Tech in Biotechnology
- Full and Part time Ph.D Programmes in Biotechnology

Departmental computer facility: The department has created computer facility to cater the need of the students related to Bioinformatics. The facility is under the process of Upgradation.

2. INFRASTRUCTURAL FACILITIES ADDED

Major equipments in the laboratories added during the time under consideration:

S.No.	Name / Items	Make	Present Condition
1	Refrigerated Centrifuge	Eppendorf, Germany	OK
2	Fermentor	New Brunswick, USA	OK
3	Gradient PCR Machine	Eppendorf, Germany	OK
4	Trinocular Research Microscope	Nikon, Japan	OK

3. R & D ACTIVITIES

A. The faculty members of the Department are actively engaged in the research related to Microbial Biotechnology, Enzyme Engineering, Biohydrogen production, Nanobiotechnology and Biological Waste Treatment etc.

B. Conference/ Seminars/ Workshop/ Short Term Course attended by Faculty:

I) **Dr. A.K.Jana** attended following Conference in 2010-2011:

- ◆ 2nd International Conference on Environmental Science and Technology-**ICEST 2011, Singapore**, February 26-28, 2011, Singapore
- ◆ Biomedical Engineering & Assistive Technologies, **BEATs-2010, NIT Jalandhar**, December 17-19, 2010
- ◆ **National Conference, Education on Value Management**, PTU, Jalandhar, **Dec 11-12, 2010**

II) **Nitai Basak** attended following Conference in 2010-2011:

- ◆ Fuel Cell & Hydrogen Energy, **FCHE-2011, Washington DC, USA**, February 13-16, 2011
- ◆ Biomedical Engineering & Assistive Technologies, **BEATs-2010, NIT Jalandhar**, December 17-19, 2010
- ◆ **National Conference, Education on Value Management**, PTU, Jalandhar, **Dec 11-12, 2010**
- ◆ **VIII Asian International Conference in Leather Science & Technology**, Kolkata, **Nov 12-14, 2010**

4. RESEARCH PUBLICATION

Research Publication in International and National Journals and International Conferences (during last 01 year):

A) International Journals:

Sr. No.	Name of the paper	Authors	Name of Journal	Volume, year	Page no.
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1.	Microwave-enhanced synthesis of graft copolymer of binary vinyl monomer mixtures onto acetylated <i>Saccharum spontaneum</i> L and characterization	Maiti, M., Jindal, R., Kaith, B. S., Jana, A.K.	Advances in Polymer Technology	Volume 30, Issue 2, 2011	122–137
2.	Effect of propylation of starch with different degrees of substitution on the properties and characteristics of starch-LDPE blend films	Garg, S. and Jana, A. K.	J of Applied Polymer Science	Vol 119, Issue No 3, Feb 5, 2011	1383-1392
3.	Synthesis of graft copolymers of binary vinyl monomer mixtures onto acetylated <i>Saccharum spontaneum</i> L and characterization	Maiti, M., Jindal, R., Kaith, B. S., Jana, A.K.	J of Applied Polymer Science	Vol 121, Issue No 4, Aug 15, 2011	2060-2071
4.	Induction of physico-chemical and thermal resistance on <i>Saccharum spontaneum</i> L by grafting under microwave irradiation	Maiti, M., Jindal, R., Kaith, B. S., Jana, A.K.	International J of Polymeric Materials	Accepted in Oct. 2010	
5.	Characterization and evaluation of acylated starch with different acyl groups and degrees of substitution	Garg, S. and Jana, A. K.	Carbohydrates polymers	83, 4 (2011) Feb	1623-1630
6.	Effect of Propylation on the Characteristics of Corn Starch and Variation of Properties with Different Degrees of Substitution	Garg, S. and Jana, A. K.	J of Applied Polymer Science	119 (2010) April	1383-1392

B) International Conferences:

Sr. No.	Name of the papers	Authors	Name of the Conference	Date and Year
1.	Studies on the Biodegradation of Azo Dyes by White Rot Fungi <i>Daedalea Flavida</i> in the Absence of External Carbon Source	Chhavi Rani, Asim Jana and Ajay Bansal	2nd International Conference on Environmental Science and Technology-ICEST 2011, Singapore	February 26-28, 2011, Singapore
2.	Optimization of Initial substrate concentration and dry biomass concentration for higher yield of fermentative hydrogen production by Response Surface Methodology	Nitai Basak, Asim K Jana and Debabrata Das	Fuel Cell and Hydrogen Energy 2011, Washington DC, USA	February 13-16, 2011, USA
3.	Enzyme Nanoparticles (ENPs) Based Biosensors	Sandeep Kumar, Asim K. Jana	International Conference on Biomedical Engineering and Assistive Technologies (BEATS-2010) at NIT, Jalandhar	December 17-19, 2010
4.	Molecular Docking Study of Anticancer Drugs with Histone Deacetylase (HDAC)	Nitai Basak and Akshay Mahajan	BEATS-2010, at NIT, Jalandhar	December 17-19, 2010
5.	Dye Decolorization by Immobilized Fungal Material	Chhavi Rani, Asim K. Jana, Ajay Bansal	BEATS-2010, at NIT, Jalandhar	December 17-19, 2010
6.	X-Ray Crystallography: Applications in the biotechnology research.	Sharma N, Rana C, Verma ML, Jana AK	BEATS-2010, at NIT, Jalandhar	December 17-19, 2010
7.	Biosensors, types and applications.	Jain Y, Goel A, Rana C, Sharma N, Verma ML, Jana AK	BEATS-2010, at NIT, Jalandhar	December 17-19, 2010

8.	Fundamentals And Applications Of Maldi-Tof MS	Goyal A, Jain Y, Verma ML, Jana AK	BEATS-2010, at NIT, Jalandhar	December 17-19, 2010
9.	Preparation and characterization of succinated starch / PVA blend films	Vinod Kumar, Sangeeta Garg and Asim K Jana	BEATS-2010, at NIT, Jalandhar	December 17-19, 2010
10.	Current status of biotechnological production of the cholesterol lowering drug Lovastatin and its biomedical applications.	Verma ML, Jana AK and Kanwar SS	BEATS-2010, at NIT, Jalandhar	December 17-19, 2010
11.	Bacterial biosensors for measuring availability of environmental pollutants	Verma ML, Kanwar SS and Jana AK	BEATS-2010, at NIT, Jalandhar	December 17-19, 2010
12.	Removal of Cr (VI) by using pea nut shell as low Cost Bioadsorbent	Nitai Basak, Priya Menon and Kamal Batra	8th AICLST, Kolkata	November 12-14, 2010.

5. FACULTY AS REVIEWER OF INTERNATIONAL REVIEWED JOURNAL:

Sr. No.	Name of the Faculty	Name of the Journal
1.	Dr. A.K.Jana	<ul style="list-style-type: none"> Canadian Journal of Chemical Engineering Journal of Applied Polymer Science
2.	Er. Nitai Basak	<ul style="list-style-type: none"> Bioresource Technology (ELSEVIER) International Journal of H₂ Energy (ELSEVIER) International Journal of Environment and Waste Management (Wiley Interscience) Became Member of American Chemical Society

6. STUDENT ACTIVITY:

- (i) 4th year (8th Semester) and 3rd year (6th Semester) students of the Department of Biotechnology have cleared **GATE 2011** in Biotechnology. The list is as follow:

Sr. No.	Name of the Students	Semester	All India Rank
1.	Mr. Kapish Gupta	6 th	77
2.	Ms. Yachna Jain	8 th	221
3.	Ms. Namita Sharma	8 th	730
4.	Ms. Arsi Goyal	8 th	779

- (ii) SOBER (Society of Biotech Engineers and Researchers), the student society of the Department organized following events during TECHNITI 2011, February 04-06, 2011:
- I) "Foren 6", programme for identifying culprit based on DNA Finger printing
 - II) Biotechnology Model making Competition, Mega event
 - III) Basic Biotechnology Quiz
- (iii) SOBER (Society of Biotech Engineers and Researchers), the student society of the Department organized "Fresher Welcome" to the new 1st year students in the VIP Seminar Hall of the Institute on October 11, 2010.
- (iv) SOBER (Society of Biotech Engineers and Researchers), the student society of the Department organized "Farewell Ceremony" to the 1st outgoing batch (2007-2011) in the VIP Seminar Hall of the Institute on April 27, 2011.

Department of Chemical Engineering

1. Academic Programmes

- B. Tech. in Chemical Engineering
- M. Tech. in Chemical Engineering
- M. Tech. (by Research) in Chemical Engineering
- Ph. D. in Chemical Engineering (Full time)
- Ph. D. in Chemical Engineering (Part time)

2. Development of Laboratories

The following equipments have been procured in various laboratories:

Sr. No.	Name of Equipment
1.	Apparatus for Thermal Conductivity of Liquids
2.	Apparatus for Emissivity Measurement
3.	UV Radiometer
4.	Apparatus for Measuring Thermal Conductivity of Insulating Powder
5.	Apparatus for Heat Transfer through Composite Wall

3. Research and Development activities

The faculty members of the Department are actively engaged in guiding research in the areas of Chemical Engineering, Biochemical Engineering, Petroleum Engineering, Energy and Environment, Biodegradable Plastics etc.

5. Research Publications

International Journals

- Varsha Midha, MK Jha, Apurba Dey, "Biological sulfide oxidation in mixed microbial culture" , accepted in Journal of Engineering Science and Technology 2011
- Sangeeta Garg, Asim Kumar Jana, "Effect of propylation on the characteristics of corn starch and variation of properties with different degrees of substitution" *Journal of Applied Polymer Science*, 2010 (DOI: 10.1002/app.32513).
- N.K.Srivastava, M.K.Jha, I.D Mall and Davinder Singh "Application of Genetic Engineering of Chromium Removal from Industrial Waste Water" in International Journal of Chemical and Biological Engineering 3 (3),153-158 2010.
- Renu Gupta, Ajay Bansal, "Effect of Bed Configuration on Dispersion in a Packed-Bed Reactor" *Industrial and Engineering Chemistry Research* 49(19), 9525-28, 2010.

Participation in International Conferences

- Davinder Singh, N.K.Srivastava and Gurbir Kaur presented a poster entitled " Design of Moving Bed Bioreactor for the treatment of Drinking Water" in first Environment Asia International Conference held at Hotel Rama Garden, Bangkok during March 22-26, 2011.

- Vidushi Bajpai, Apurba Dey, Shailendra Bajpai, M K Jha and Subrata Ghosh presented a paper entitled “Quantification of Adherent Bacterial Cells on Biomaterials Current Perspective” in International Congress on Environmental Research at Reduit Mauritius September 16-18, 2010.
- Jatinder Kumar presented a paper entitled “ Photocatalytic Degradation of Amaranth Dye in Aqueous Solution using Sol- Gel Coated Cotton Fabric in International Conference on Chemical Engineering held at San Fransisco USA during October 20-22, 2010.

Participation in National Conference

- Abhishek Jindal, M K Jha, Ajay Bansal and Shailendra Singh “Algal Biofuel Production Technologies – A Review” Proc. Indian Chemical Engineering congress and 63rd Annual Session of Indian Institute of Chemical Engineers and Seminar on Emergence of Biotechnology in Process Industry - A Sustainable Growth & Clean World” organized by Indian Institute of Chemical Engineers Annamalai – Neyveli Regional Centre in Collaboration with Department of Chemical Engineering Annamalai University, Annamali (Tamilnadu) December 27-29, 2010.
- M K Jha and M K Jindal “Global Warming and Role of Chemical Engineering” Proc. Indian Chemical Engineering congress and 63rd Annual Session of Indian Institute of Chemical Engineers and Seminar on Emergence of Biotechnology in Process Industry - A Sustainable Growth & Clean World” organized by Indian Institute of Chemical Engineers Annamalai – Neyveli Regional Centre in Collaboration with Department of Chemical Engineering Annamalai University, Annamali (Tamilnadu) December 27-29, 2010.

6. Projects ongoing

MHRD Sponsored project “Modernization of Chemical Process Control Laboratory” (8.0 lacs)

7. Foreign Visits

- N.K.Srivastava visited Bangkok, Thailand during the period March 22 -26, 2011 to present a paper at 1st Environment Asia International Conference.
- Dr.M.K.Jha, N.K.Srivastava and S.Bajpai visited Mauritius during the period September 16-18, 2010 to present papers in International Congress on Environmental Research at Mauritius.
- Jatinder Kumar visited San Fransisco, USA during the period October 20 -22, 2010 present a paper in International Conference on Chemical Engineering.

8. Short term course organized

- Academia Workshop on “**Refining & Petrochemicals**” In Association with Petroleum Federation of India and Lovraj Kumar Memorial Trust, New Delhi during August 25-28, 2010

9. Short Term Courses /Workshop attended by faculty

- Dr.M.K.Jha attended Lovraj Kumar Memorial Trust Annual Workshop 2010 “Impact of Natural Gas on Process Industry - Refineries, Petrochemicals and Fertilizers” jointly organized by Engineers India Ltd. and Petrotech Society at India Habitat Centre New Delhi from November 24-25, 2010.

10. Expert Lectures Delivered by Outside experts

1. An invited talk on “ Nature’s Obvious Vs Invisible Chemistry” by Sh Inder H Bhalla , Managing Director, Conserve Watercare Pvt Ltd Baroda was arranged on Feb 17, 2011.
2. An invited talk on “ Global Challenges in Chemical Engineering” by Prof G N Pandey was arranged on Mar 28, 2011.
3. Industrial Expert talk on “Overview and Salient Features of GGS Refinery Bathinda” by Sh Narendra Verma , Manager Technical services, HMEL-GGS Refinery Bathinda sponsored by Petrotech Society New Delhi organized on Mar 29,2011.

11. Expert Lectures Delivered by faculty

Dr. M.K. Jha delivered an expert lecture on the topic entitled “An Overview of Petroleum Industry” at Department of Chemical Engineering Malviya National Institute of Technology Jaipur on April 5, 2010.

12. Faculty Achievements

- Dr Ajay Bansal has been conferred Fellow of The Institution of Engineers, Kolkata on Sept 2010.
- Dr M K Jha and Dr Ajay Bansal have been conferred Fellow, International Congress of Environmental Research on 2011.
- Renu Gupta, Sangeeta Garg, Poonam Gera, N K Srivastava, Rubal Preet have been conferred Associate, International Congress of Environmental Research on March 2011.
- Renu Gupta, Sangeeta Garg, Poonam Gera, Rubal Preet have become life member of IChE from March 2011.

13. MOU Signed with other Institutes

- Sardar Swaran Singh National Institute of Renewable Energy has signed an MOU with NIT Jalandhar for a period of 3 years w.e.f 16.8.2010.
- The existing MOU between Indian Institute of Petroleum Dehradun and NIT Jalandhar has been further extended for a period of 3 years w.e.f.3.8.2010

14. Students’ Activities

- Mr. Paritosh, M.Tech student presented a paper entitled “ Rapid Gas Solid Separation Techniques” at S- CHEMCON-2010 held at Guntur Andhra Pradesh from September 24-25, 2010.
- Mr.Rishab Jain and Mr.Paramvir Singh final year students presented a paper entitled “ Synthesis of Magnese Oxide Nanoparticles” at Guru Gobind Singh Indraprastha University, New Delhi from November 16-17,2010.
- Shailendra Kumar Singh, PhD Scholar, attended a training programme on Blue Green Algae at Centre for Conservation & utilization of Blue Green Algae under IARI, New Delhi sponsored by DST (Govt. of India, New Delhi) from Nov.22-26, 2010.

15. Placement

Following students have got job offer from different companies through campus placement.

S.N.	Name	Name of Company
1.	Sushmit Chakraborty	JSW
2.	Tejash Patel	JSW
3.	Ankur Tripathi	JSW
4.	Nitin Kumar Nandan	JSW
5.	Rahul Anand	JSW
6.	Mahesh Dang	JSW
7.	Heena Nagpal	JSW
8.	Sandeep Kaur	JSW
9.	Vivek Bansal	JSW
10.	Rohit Bansal	TCS
11.	Upma Vermani	TCS BEROE
12.	Supriya Brutta	TCS
13.	Vitul Gaur	TCS
14.	Apoorva Raghuwanshi	Accenture
15.	Utkarsh Rustagi	Accenture, Saint Gobain
16.	Nikhil Ahuja	Accenture
17.	Keshav Tirpathi	Accenture
18.	Tushar Sharma	Accenture
19.	Sumedh Dahiwal	L & T Infotech
20.	Neeru Bala	L & T Infotech
21.	Prikesh Choudhary	L & Infotech
22.	Krittika Swamee	L & T Infotech
23.	Ritasha Gupta	L & T Infotech
24.	Diensh Sharma	CAPGEMINI
25.	Dipankar Goswami	CAPGEMINI
26.	Monika Jhaku	CAPGEMINI
27.	Siddharth Parhi	CAPGEMINI
28.	Parmvir Singh	CAPGEMINI
29.	Rahul Mishra K.V.Smitha	PATNI Computers
30.	Pranay Gupta	TECHNIP BOC

16. The following students have qualified Gate -2011

Sr. No.	Name
1.	Keshav Tirpathi
2.	Nitin Kumar Nandan
3.	Nikhil Ahuja
4.	Rahul Mishra
5.	Utkarsh Rustagi
6.	Rishi Prakash
7.	Paramvir Singh
8.	Anjesh Bhartiya
9.	Ankur Tripathi
10.	Upma Vermani

17. Any other

- Dr.M.K.Jha chaired the Technical Session on the theme Nanotechnology during Sixth Annual Session of the Students Chemical Engineering Congress and National Conference on "Process Industries & Sustainable Development" organized by Department of Chemical Engineering RVR & JC College of Engineering Guntur (Andhra Pradesh) September 24-25,2010.
- Dr M K Jha completed his term of 3 years as the Executive Council member of the Indian Institute of Chemical Engineers Kolkata on Dec 31, 2010 after serving as the Hon. Controller of the Examinations and Hon. Registrar of the Institute.
- Dr Ajay Bansal has been elected to the National Executive Council of Indian Institute of Chemical Engineers Kolkata w.e.f. 2011.

Department of Chemistry**1. Introduction:**

The Department of Chemistry – NITJ is one of the fourteen Departments of the Institute. The coherent, cohesive and homely environment of the Department is attributed to the students, faculty and staff with tremendous potential and opportunities to grow academically, emotionally and spiritually. The department started functioning in 1989 for teaching undergraduate (B Tech) students. M Sc and Ph D Programs were initiated in July 2006. The department is striving to emerge as a premier Centre of Chemistry teaching and research of the country. **Within a short span of three and half years of commencement of post graduate classes the Department has achieved results which reflect upon the growth pattern of the Department.**

2. Faculty Profile:

Sanctioned Posts: 17 (4 Professors, 6 Associate Professors and 7 Assistant Professors)

In Position: (3 Professors, 1 Associate Professor, 5 Assistant Professors)

3. R & D activities going on: Nanochemistry, Smart Polymers, Synthetic Organic Chemistry, Coordination Chemistry, Solution Thermodynamics, Physical Chemistry and Environmental Chemistry.**4. Ph. D Produced**

1. Ms. Mithu Maiti (Ph D Produced)

5. Research Scholars Pursuing for Ph. D Degree

1. Mr. Vaneet Thakur
2. Mr. Hemant Mittal
3. Ms. Jaspreet Kaur Bhatia
4. Ms. Deepali Sharma
5. Ms. Kirtan Jot Kaur
6. Ms. Gagandeep Kaur
7. Mr. Rakesh Kumar
8. Ms. Saruchi
9. Ms. Sapna Sethi (Part time)
10. Ms. Aparna Sharma (Part time)

6. Academic Programmes:

B. Tech (Undergraduate Courses) - Core courses and elective courses as per requirement of individual Departments.

M. Sc. Program

Ph D Program

Special Features of M Sc Chemistry Program

In addition to traditional courses on Inorganic, Organic, Physical, Analytical Chemistry and Spectroscopy following courses are mandatory for all students.

- Intellectual Property Rights
- Electronics for Chemists
- Computational Techniques for Chemists
- Pharmaceutical Chemistry
- Summer Training in IITs, CSIR Labs or Industry
- Scientific Documentation and Presentation skills
- Project work in III and IV semesters
- Comprehensive viva voce at the end of the course
- Three departmental and one open elective courses to be chosen by students as per their aptitude

7. AWARD(s)/ Recognitions

Research Group	Awards	Name of the Conference	Paper Presented By
Dr. B S Kaith Dr. Rajeev Jindal Mr. Hemant Mittal Ms. Deepali Sharma Ms. Jaspreet Kaur Bhatia Ms. Mithu Maiti Ms. Saruchi	(i) BEST PAPER AWARD on the research paper titled "Green synthesis of pH, temperature and electrical stimulus responsive biodegradable smart hydrogels and their potential applications in industries"	UGC Sponsored National Conference on Recent Advances in Green, Eco-Friendly and Sustainable Chemistry [RAGES-2010], September 10-11, 2010, Organized by Department of Chemistry, Hans Raj Mahila Vidyalaya (HMV-College), Jalandhar (Pb.).	The paper was presented by Mr. Hemant Mittal.
Dr. B S Kaith Dr. Rajeev Jindal Mr. Hemant Mittal Ms. Deepali Sharma Ms. Jaspreet Kaur Bhatia Ms. Mithu Maiti Ms. Saruchi	(ii) Young Scientist Award on the research paper titled "Surfactant-Assisted Synthesis and Antibacterial Study of ZnO Nanostructures"	UGC-Sponsored National Conference on Recent Advances in Green, Eco-friendly and Sustainable Chemistry [RAGES-2010], September 10-11, 2010, Hans Raj Maha Vidyalaya, Jalandhar (Punjab) India.	The paper was presented by Ms. Deepali Sharma.
	(iii) BEST PAPER AWARD on the research paper titled "Green synthesis of pH, temperature and electrical stimulus responsive biodegradable smart hydrogels and their potential applications in industries"	International Conference on Environmental Challenges: A Global Concern [ICEC-10], October 15-16, 2010, Kanya Maha Vidyalaya (KMV), Jalandhar (Punjab) India.	The paper was presented by Mr. Hemant Mittal.

	(iv) GOLD PAPER AWARD on the research paper titled "Size Dependent Interfacial Related Anti-microbial Investigations of ZnO Nanoparticles"	IUPAC Sponsored International Conference on "Nanomaterials and Nanotechnology [NANO-2010]" December 13-16, 2010, K. S. Rangasamy College of Technology, Tiruchengode, Namakkal (Dt.) Tamil Nadu, India.	The paper was presented by Ms. Deepali Sharma.
	(v) YOUNG SCIENTIST AWARD on the research paper titled "Application of ZnO Nanostructures in Textile Industry and Waste Water Treatment"	MoES, CSIR, DST, ICMR, HPCL, DRDO and DAE Sponsored International Conference on "Nanoscience, Nanotechnology and Nanomaterials [NANOS-2010]" December 17-19, 2010, Department of Chemistry, GITAM Institute of Science, GITAM University, Visakhapatnam, India.	The paper was presented by Ms. Deepali Sharma. The Award was given by DR. Mats Jonson, Chairman Nobel Laureate Committee for Physics, Nobel Prize (1995-2000).
Dr. B S Kaith Dr. Rajeev Jindal Mr. Hemant Mittal Ms. Deepali Sharma Ms. Jaspreet Kaur Bhatia Ms. Mithu Maiti Ms. Saruchi	(vi) BEST ORAL PAPER AWARD on the research paper titled "Synthesis and Study of Photocatalytic and Antimicrobial Activity of Surfactant based ZnO Nanostructures"	UGC Sponsored Two Days National Seminar on "Applications of Nanoscience and Nanotechnology" December 23-24, 2010, BBK DAV College for Women, Amritsar (Punjab) India.	The paper was presented by Ms. Deepali Sharma.
	(vii) BEST POSTER APAPER AWARD on the research paper titled "pH and Temperature Sensitive Biodegradable Hydrogels from Gum ghatti"	UGC Sponsored Two Days National Seminar on "Global Environmental Change: Challenges & Management Strategies" January 21-22, 2011, Kanya Maha Vidyalaya (KMV), Jalandhar (Punjab) India.	The paper was presented by Mr. Hemant Mittal.
	(viii) BEST POSTER PAPER AWARD on the research paper titled "Biodegradable hydrogels from Gum ghatti and acrylamide-co-acrylic acid-Synthesis, biodegradation and swelling studies"	3rd National Conference on "Recent Advances in Chemical and Environmental Sciences" [RACES-2011], February 28- March 01, 2011, Multani Mal Modi College, Patiala (Punjab)	The paper was presented by Mr. Hemant Mittal.

Dr. N C Kothiyal Mr. Vaneet Kumar	(ix) BEST POSTER AWARD	1 st International Conference on "Bio Fuels", January 18- 19, 2010, Delhi Technological University, Delhi	The paper was presented by Mr. Vaneet Kumar
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8. Research Papers Published in Reputed / Refereed Journals

S. No.	Authors from NITJ	Authors from other Institute	Title	Journal	Year	Volume	Page
1.	Kaith, B. S.	Kumari, Anjna, Singha, A. S. and Kalia, Sushil	Synthesis, characterization and salt resistant swelling behaviour of psy-g-poly(AA) hydrogel	<i>Advanced Materials Letters</i>	2010	1(2)	123-128
2.	Kaith, B. S.	Ranjta, S. and Singha, A. S.	Under Pressure Synthesis of Gum Arabic and Methacrylic Acid based Polymeric Network and its Application as Salt-Resistant Device	<i>Bulletin of Materials Science</i> (accepted, Ms. No. BOMS-D-07-00153) [USA].			
3.	Kaith, B. S., Jindal, R and Mittal, H		Superabsorbent Hydrogels from Poly(acrylamide-co-acrylonitrile) grafted <i>Gum ghatti</i> with Salt, pH and Temperature responsive properties	Der ChemicaSinica, [USA]	2010	1(2)	92-103
4.	Kaith, B. S., Jindal, R and Mittal, H	Kumar, K	Temperature, pH and Electrical Stimulus Responsive Hydrogels from <i>Gum ghatti</i> and Polyacrylamide-Synthesis, Characterization and Swelling studies .	Der ChemicaSinica	2010	1(2)	44-54
5.	Kaith, B. S., Sharma, D and Rajput, J	Kaur, M and Sharma, S	Synthesis of ZnO Nanoparticles and Study of their Antibacterial and Antifungal Property	<i>Thin Solid Films</i>	2010	519	1224 - 1229
6.	Harsh Kumar	Meenu Singla, Akanksha, Tejwant Singh, Tushar J. Trivedi, and Arvind Kumar	Volumetric and Surface Properties of Aqueous Mixtures of Polyethers at Different Temperatures	<i>J. Chem. Eng. Data</i> 2011 dx.doi.org/10.1021/je100757w	2011		
7.	Harsh Kumar and Rekha Gaba	Amanlendu Pal	Acoustic, viscometric, and spectroscopic studies of dipropylene glycol monopropyl ether with n-alkanols at temperatures	J Solution Chem. 2011 (Accepted)	2011		

			288.15, 298.15, and 308.15 K				
8.	Harsh Kumar and Rekha Gaba	Meenu Singla and Akanksha	Viscometric Studies of Binary Liquid Mixtures of Cyclopentane (1) + 2-propanol (2), + 1-butanol (2), and + 2-butanol (2) at T = (298.15 and 308.15) K.	J. Mol. Liquids 2011, 158, 182-186	2011		
9.	Kothiyal N.C., Kumar, Vaneet		Distribution behavior of some Polycyclic Aromatic Hydrocarbons in roadside soil at traffic intercepts within a developing city of northern India during winter and autumn	International Journal of Environmental Science and Technology (IJEST)	2011	8(1)	63-72
10.	Kothiyal N.C., Kumar, Vaneet		Distribution Pattern and Contamination level of Some Polycyclic Aromatic Hydrocarbons along Roadside Soil at Major Traffic Intercepts during autumn in a developing City Environment of India	Asian Journal of Chemistry	2011	23 (3)	1363 - 1368

9. PAPERS PUBLISHED IN THE PROCEEDINGS OF INTERNATIONAL CONFERENCES :

SNo.	Authors from NITJ	Paper Title	Venue Institute	Date of Conference	Paper No. / Page No./
1.	Kaith, B. S, Jindal, R and Mittal, H	Under pressure synthesis of Gum ghatti and acrylamide based hydrogels for the selective removal of saline from different petroleum fraction-saline emulsions	9 th International Oil & Gas Conference and Exhibition PETROTECH-2010, Vigyan Bhawan, New Delhi	October 31 – November 03, 2010	
2.	Kothiyal N.C and Kumar Vaneet	Estimation of polycyclic aromatic hydrocarbons (PAHs) in diesel - castor biodiesel blends by GC technique	3 rd international congress of environmental research", organized by University of Mauritius, Reduit, Mauritius	16-18 th September, 2010	
3.	Kothiyal N.C and Kumar Vaneet	Polycyclic aromatic hydrocarbons in roadside soil at major traffic intercepts during winter and summer within a developing city of India	3 rd international congress of environmental research", organized by University of Mauritius, Reduit, Mauritius	16-18 th September, 2010	
4.	Kothiyal N.C and Kumar Vaneet	Level of Carcinogenic Polycyclic Aromatic Hydrocarbons in Roadside Soil at Major Traffic Intercepts of Jalandhar City	International conference on Environmental Challenges (A Global Concern)-ICEC-10" organized by Department of	October 16-17, 2010	

			Chemistry Kanya Mahila Vidyalaya, Jalandhar		
5.	Kothiyal N.C and Kumar Vaneet	Polycyclic Aromatic Hydrocarbons (PAHs) assessment in Diesel-Biodiesel (Karanj) Blends on engine by GC Technique	International conference on Environmental Challenges (A Global Concern)-ICEC-10" organized by Department of Chemistry Kanya Mahila Vidyalaya, Jalandhar	October 16-17, 2010	
6.	Jindal. R,		International Conference on Emerging trends in Chemistry	February 11, 2011	
7.	Harsh Kumar		International Conference on Emerging trends in Chemistry	February 11, 2011	
8.	Jaspreet Kaur		International Conference on Emerging trends in Chemistry	February 11, 2011	

10. PAPERS PUBLISHED IN THE PROCEEDINGS OF NATIONAL CONFERENCES / WORKSHOPS:

Sr No.	Authors from NITJ	Paper Title	Venue Institute	Date of Conference	Paper No. / Page No./
1.	Kaith, B. S., Jindal, R. and Mittal, Hemant	Preparation and derivatization of wsCNT-their applications as super-absorbents	<i>National Symposium on recent Advances in Analytical Sciences [3rd NSAS](Oral 10), H.P. U. Shimla.</i>	April 12-14, 2010	pp. 26
2.	Kaith, B. S., Jindal, R and Mittal, H	Pressure induced synthesis of Gum ghatti and acrylamide based hydrogels and evaluation of electrical stimulus on its deswelling behavior	<i>National Symposium on recent Advances in Analytical Sciences [3rd NSAS](A055), H.P. U. Shimla.</i>	April 12-14, 2010	pp. 84
3.	Kaith, B. S., Jindal, R and Mittal, H	Synthesis of acrylamide-Gum ghatti based hydrogels under the influence of microwave radiations for the selective removal of saline from different petroleum fraction-saline emulsions	<i>Proceedings of the National Symposium on recent Advances in Analytical Sciences [3rd NSAS](A054), H.P. U. Shimla.</i>	April 12-14, 2010	pp. 83
4.	Kaith, B. S.	Synthesis and characterization of Gum arabic ans acrylamide based hydrogel and study of its swelling behavior in different fraction –water emulsions	<i>Proceedings of the National Symposium on recent Advances in Analytical Sciences [3rd NSAS](A156), H.P. U. Shimla.</i>	April 12-14, 2010	pp. 148
5.	Kaith, B. S.	selective water uptake study by synthesized Psyllium and acrylamide based hydrogel using in-air copolymerization method from different oil-water emulsions	<i>Proceedings of the National Symposium on recent Advances in Analytical Sciences [3rd NSAS](A166), H.P. U. Shimla.</i>	April 12-14, 2010	pp. 158
6.	Kothiyal N.C and Kumar Vaneet	Impact of Biodiesel Blending on Diesel and the Regeneration of Polycyclic	UGC sponsored National conference on Recent Advance in	Sept.10-11, 2010	

		Aromatic Hydrocarbons	Green, Eco- Friendly and Sustainable Chemistry organized by Department of Chemistry at Hans Raj Mahila Maha Vidayala Jalandhar		
7.	Kaith B S		3 rd National Conference on Recent Advances in Chemical & Environmental Sciences (RACES-2011), M M Modi College, Patiala	February 28- March 01, 2011	
8.	Jindal R	Modification of Sacchrum spontaneum-L Fiber through Graft Copolymerization and its application as Reinforcing agent in the preparation of biodegradeable composites	National Conference on Biotechnology-2011 at HICC, Hyderabad	March 21, 2011	
9.	Harsh Kumar		UGC Sponsered National Conference on Chemistry n Our Lives on Arya Post Graduate College, Panipat	March 29, 2011	

11. MEMBERS OF PROFESSIONAL SOCIETIES

Professor B. S. Kaith

MEMBERSHIPS:

Life-member, Indian Society for Technical Education (ISTE, LM-17275)
 Fellow, Indian Chemical Society (F/4968)
 Life-member, Indian Society of Analytical Scientists (ISAS, LM- 1097)
 Fellow, Society for Chemistry and Environment (A/B 21)
 Member, Indian Holistic Medical Society, Associated with International Open University, Colombo (1090).
 Fellow, International Journal of Chemical Sciences, Sadguru Publications, Udaipur (Rajasthan), India.

REVIEWER FOR INTERNATIONAL JOURNALS:

Referee for the Royal Society of Chemistry (RSC) Journals (Chemical Communications, Chemical Science, Chemical Society Reviews, New Journal Chemistry and Journal of Materials Chemistry), Cambridge, UK.
 Referee for e-Polymer (UK).
 Referee for the Journal of Applied Polymer Science, USA (John Wiley & Sons).
 Referee for the Carbohydrate Polymers, Elsevier.
 Referee for eXPRESS Polymer Letters.
 Referee for Polymer Composites Journal, Society of Plastics Engineers
 Referee for Polymer Engineering & Science Journal Society of Plastics Engineers
 Referee for Bulletin of Materials Science
 Referee for Journal of Hazardous Materials
 Referee for International Journal of Pharmaceutics
 Referee for the Iranian Polymer Journal

Editor:

1. International Journal of Theoretical & Applied Sciences
2. Rasayan Journal of Chemistry

FORTHcoming Book:***Cellulose Fibers, Bio-, and Nano- Polymer Composites***

Editors: Susheel Kalia*, B. S. Kaith, Inderjeet Kaur

Publisher: Springer-Verlag, Germany

Status: Online, March, 2011 onward

FORTHcoming CHAPTERS:

B. S. Kaith*, Hemant Mittal, Rajeev Jindal, Susheel Kalia and Mithu Maiti, "**Environment Benevolent Biodegradable Plastics: Synthesis, Biodegradability and Applications, Chapter in Cellulose Fibers, Bio-, and Nano- Polymer Composites**", Editors: Susheel Kalia*, B. S. Kaith, Inderjeet Kaur, Publisher: Springer-Verlag, Germany (Online, March. 2011 onward)

B. S. Kaith*, Hemant Mittal, Jaspreet Kaur Bhatia and Susheel Kalia, "**Polysaccharide Graft Copolymers-Synthesis, Properties and Applications**", **Handbook of Biopolymers and Their Applications** Editors: Susheel Kalia* and Luc Averous Publisher: Wiley & Scrivener Publishing, USA (Status: Contracted, Approx. Publication Date: June 2011)

12. Networking Activities :- Joint Research Guidance and other Activities**R & D Activities & Ph. Ds produced / Thesis Submitted**

SNo.	Name of the Ph. D Student Produced	Year	Net-working Institute	Name of the Supervisor
1	Mr. Ashish Kumar Chauhan	2011	PTU, Jalandhar	Professor B. S. Kaith
2	Ms. Ashwarya Jyoti Khanna	Thesis submitted in 2010	NIT- Hamirpur	Professor B. S. Kaith
3	Dr. Shabnam Ranjta	2010	NIT- Hamirpur	Professor B. S. Kaith
4	MOU with IHBT – Palampur	The Department initiated an <u>MOU with CSIR lab IHBT-Palampur for Collaboration in training & research</u> which was steered by DRIL & signed at Palampur by Director NIT- J & Director IHBT in presence of Director General CSIR- Dr. Sameer Brahmachari		

13. Expert Lecturers Delivered by the External Experts

Sr. No.	Date	Speaker	Address of Speaker	Topic
1	May 14, 2010	Professor S V Kesar	Punjab University, Chandigarh	Organic Synthesis
2	September 17, 2010	Dr. Padma S Vankar	Principal Research Scientific IIT- Kanpur	Antioxidants – Analytical Methods and Natural Dyes
3	November 03, 2010	Dr. K A Suri	Scientist "G", IIM – Jammu	Natural Products and Industrial Processing
4	November 08, 2010	Dr. S Sarkar	Department of Chemistry, Indian Institute of	Nanoscience and Technology/ Green

			Technology, Jalandhar	Chemistry
5	February 02, 2011	Dr. Kusum Verma	Mississippi State University, USA	Antibacterial Compounds: Triclosan and Triclocarbon in the Environment
6	February 17, 2011	Dr. S S Chimni	Department of Chemistry, GNDU Amritsar	Exploring Enantioselective organocatalysis for construction of carbon-carbon bond Mass Spectroscopy
7	March 31, 2011	Dr. C K Varshney	School of Environmental Sciences, JNU, New Delhi	Environmental Chemistry
8	May 18, 2011	Ms. Hashima Kakkar	Department of Humanities, NIT-Jalandhar	Conduct workshop on Communication Skills

Passed out M. Sc. Chemistry students pursuing Ph D abroad

1. Mr. Ajay Singh, University of Limerick, Limerick Ireland
2. Ms. Mayuri Gupta, National University, Norway
3. Ms. Anshul Sharma, University of Manitoba, Canada
4. Ms. Amita Joshi, University of Dublin, Ireland
5. Ms. Jasjeet Kaur, Deakin University, Australia

14. Summer Training of M. Sc. Students

(June / July 2010)

- One at NCL- Pune
- Two at IIT- Kanpur
- Three at IHBT- Palampur
- One at Bhavnagar

(June / July 2011)

- Four at HPU- Shimla
- Three at GNDU- Amritsar
- Three at Bhavnagar
- One at IISER – Kolkatta
- One at PU- Chandigarh
- Two at IHBT- Palampur

15. Creative Chemistry Club (C³)

Organized Fresher's day (2010 batch) on October 13, 2010.

Mr. Varun was selected Mr. Fresher on October 13, 2010.

Ms. Nisha Devi was selected Ms. Fresher on October 13, 2010.

Organized Green Diwali celebration October 25, 2010.

Industry Visit to CLRI Extension Centre & Leather Complex Jalandhar on March 25, 2011.

Farewell Party on (2009 batch) April 29, 2011.

16. Short Term Course Organized

Department organized NCERT sponsored Talent Search Students Nurturation Program for 50 students on January 10-14, 2011 at NIT- Jalandhar in collaboration with NCERT, New Delhi. (Dr. N. C. Kothiyal & Dr. B. S. Kaith coordinated the program)

Department of Civil Engineering

1. Academic Programs

- Bachelor of Technology in Civil Engineering
- Master of Technology in Structural and Construction Engineering (Full Time)
- Master of Technology in Structural and Construction Engineering (Part-Time)

2. Development of Laboratories

- The Department is having state of the art facilities in various disciplines.

3. Research and Development Activities

- Members of faculty are continuously engaged in the research activities and as a result a number of publications are coming up in various International & National Journals and International Conferences

4. Students Registered for M.Tech.

- 08

5. Research Publications

1. **S P Singh**, A P Singh and Vineet Bajaj, "*Flexural Fatigue Strength of Hybrid Fibrous Concrete Beams*", Construction Materials, Thomas Telford, UK (Accepted).
2. M D Newlands, M J McCarthy, R K Dhir and **S P Singh**, "*Cement Combinations and Performance : Effect of Cement Type on Carbonation*", Proceedings of the International UKIERI Concrete Congress – New Developments in Concrete Construction, 8-10 March 2011, IIT Delhi, pp. 85-98.
3. R Scott and **S P Singh**, "*High Performance Silica Fume Concrete and Some Applications in India*", Proceedings of the International UKIERI Concrete Congress – New Developments in Concrete Construction, 8-10 March 2011, IIT Delhi, pp. 217-238.
4. **S P Singh**, A P Singh and Vineet Bajaj, "*Strength and Flexural Toughness of Concrete Reinforced with Steel-Polypropylene Hybrid Fibres*", Asian Journal of Civil Engineering, Building and Housing, Iran, Vol. 11, No. 4, 2010, pp. 495-507.
5. **Rizwan A. Khan** Arshdeep Kaur , S. P. Singh and Suhail Ahmad (2011) "Nonlinear Dynamic Analysis of Marine Risers under Random Loads for Deepwater Fields in Indian Offshore", *Twelfth East Asia-Pacific Conference on Structural Engineering and Construction 26th-28th January 2011, Hongkong.*
6. Swamee, P.K., Prabhat, S., and Bagani, S., "Practical singular open-channel sections." *ISH J. Hydraul. Eng.*, (Accepted for publication).
7. Davinder Singh .N.K.Srivastava, and Gurbir Kaur (2011) "Treatment of domestic waste water using moving bed biofilm reactor". The 1st Environmental International conference on Environmental Supporting in Food and Energy, Crisis and opportunity 22-25 March, 2011 Bangkok Thailand .volume VII(P) 005 Page No 784-792

6. Short Term Courses/Training Program/Seminars /Conferences organized /attended by the faculty

- Dr. S P Singh organized", organized and attended International UKIERI Concrete Congress on "*Concrete for 21st Century Construction*", at IIT Delhi, 8-10 March 2011.

- Dr. A. P. Singh organized and attended International UKIERI Concrete Congress on “Concrete for 21st Century Construction”, at IIT Delhi, 8-10 March 2011.
- Dr. Rizwan A Khan organized and attended International UKIERI Concrete Congress on “Concrete for 21st Century Construction”, at IIT Delhi, 8-10 March 2011
- Davinder Singh, Short Term Course on “Environment Management in Process Industries” Organized by Department of Chemical Engineering at Dr.B.R.Ambedkar National Institute of Technology Jalandhar from 05-09 June,2011

7. Consultancy Services completed/On going

- The Department of Civil Engineering is continuously engaged in providing consultancy to various Government, Semi Government and Private Organizations in the area of Structural Design of buildings, Water Tanks; soil exploration studies, Testing of Soil and other building materials such as Cement, Aggregates, Bricks, Steel etc, The Department is also engaged in the Design of Concrete Mixes of various grades. A number of assignments have been completed and are presently in hand. The total amount of consultancy carried out by the department is Rs. 16 lacs - during year 2010-2011 (as on date)

Department of Computer Science and Engineering

1. Academic Programmes

Undergraduate Programmes

- B. Tech. in Computer Science and Engineering

Postgraduate Programmes

- M. Tech. in Computer Science and Engineering
- M. Tech. Part Time in Computer Science and Engineering
- Full and part Time Ph.D. Programmes in Computer Science and Engineering

2. Development of laboratories

- Information and Security Lab under ISEA by MCIT, New Delhi.
- Software Engineering & Linux Laboratory
- RDBMS & Programming Language Laboratory
- Data Communication & Computer Networks Laboratory
- Microprocessor & Digital Circuit & Logic Design Laboratory
- Wireless Networks Laboratory
- Embedded System Laboratory
- Image Processing and Pattern Recognition Laboratory

3. Research and development activities

Dr Ajay K Sharma involved in research activities in the area of:

- **Optical Communication Systems:** Performance Analysis and Dispersion Compensation for Broadband Optical Systems and Networks (Linear and Non-linear), Radio-over-Fiber, Soliton Transmission links.
- **Optical Networks:** WDM/DWDM Networks their performance analysis and cross-talk evaluation.
- **Wireless Communication Systems:** Performance analysis and simulation of wireless systems, wireless LAN and wireless sensor networks using MATLAB, OPNET, OMNeT++ and NS2.

Dr. A. L. Sangal is involved in activities in the area of:

- Scientific Computing and Computer Networks

Dr. Harsh K Verma is involved in activities in the area of:

- Numerical Computing, Information Security and Software Systems.

Dr. Renu Dhir is involved in activities in the area of:

- Image Processing, Cryptography and Information Security Systems and Pattern Recognition.

Mrs. Geeta Sikka is involved in activities in the area of:

- Software Engineering and Data Mining

Mrs. Rajneesh Rani is involved in activities in the area of:

- Image Processing and Natural Language Processing

4. Students registered for Ph. D. (Area of Research)

Sr. No.	Name of the Student	Registered for	Completed /On going
1.	Ms. Maninderjit Kaur	Ph. D (Full Time)	On Going
2.	Mr. Sukhvinder Singh	Ph. D (Full Time)	On Going
3.	Mr. Raman Kumar	Ph. D (Part Time)	On Going
4.	Ms. Neetu Sood	Ph. D (Part Time)	On Going
5.	Mr. Vinit Grewal	Ph. D (Full Time)	On Going
6.	Ms Geeta Sikka	Ph. D (Part Time)	On Going
7.	Ms. Sheenam Goyal	Ph. D (Full Time)	On Going
8.	Ms. Deepti Gupta	Ph. D (Full Time)	On Going
9.	Ms. Rajneesh Rani	Ph. D (Part Time)	On Going
10.	Mr. H. S. Bindra	Ph. D (Full Time)	On Going
11.	Mr. Sandeep Mehmi	Ph. D (Part Time)	On Going
12.	Ms. Gausia Qazi	Ph. D (Part Time)	On Going
13.	Mr. Nischay Bahl	Ph. D (Part Time)	On Going
14.	Mr. Sunil Gupta	Ph. D (Part Time)	On Going
15.	Mr. Abhinav Bhandari	Ph. D (Full Time)	On Going
16.	Ms. Anupama Gupta	Ph. D (Full Time)	On Going
17.	Ms. Ramanpreet Kaur	Ph. D (Full Time)	On Going
18.	Ms. Neha Singh	Ph D (Part Time)	On Going

5. Research Publications (in Bibliographic format)

a) International Journals / National Journals

- Maninder Jeet Kaur, **Harsh K Verma** and Dr. Moin Uddin, *The Role of Cognitive Radio in 4G Communications*, **International Journal of Wireless and Mobile Networks (IJWMN), 2011 (communicated)**.
- Saiprakash Palakollu, **Renu Dhir** and **Rajneesh Rani**, "Segmentation of Devanagari Script", *in the International Journal of Computer Science and Information Technologies*, Vol. 2 (3), pp.-1244-1247,2011
- Mahesh Jangid, **Renu Dhir** and **Rajneesh Rani**," Novel Approach: Recognition of Devanagari Handwritten Numerals ", *in the International Journal of Electrical, Electronics and Computer Science*, ISSN: 2221-7258 Vol. 1, Issue 2, pp. 41-46, April 2011.
- Ramesh Tiwari and **Renu Dhir**; "Comparing Enhanced Fuzzy Logic Image Filtration with Mean and Median Filtered Images" in the International Journal of Electrical, Electronics and Computer Systems, ISSN: 2221-7258 Vol. 2 Issue: 1 pp. 22-27, May 2011

- Sukhvinder S. Bamber and Ajay K Sharma “**Simulative Performance Evaluation of 802.15.4 with different Modulations for Wireless Sensor Networks**”, International Journal of Communication and Computer (ISSN: 1930-1553), Vol. 8, No. 3, pp. 201-210, Mar. 2011.
- Harminder Singh Bindra, and A.L. Sangal, “**Considerations and Open Issues in Delay Tolerant Network’s (DTNs) Security**”, Journal of Wireless Sensor Network, 2010.
- Santosh Kumar, Abhinav Bhandari, A.L.Sangal, “ **Comparison of Queuing Algorithms against DDOS Attacks**”, International Journal of Computer Science and Information Technology,2011

b) International Conferences

- Rajneesh Rani and Renu Dhir and G S Lehal, “Identification of Printed Words and English Numerals Using Gabor Features” in the Proceedings of **International Conference on Computer and Information Science, and Engineering**”, held at Dubai, UAE, Pp. 1034-1037 January 25-27, 2011.
- Sheenam Goyal, Kirandeep Singh, and Renu Dhir, “Log Visualization to categorize the malicious activities detected by honeypot”, in the Proceedings of **International Conference on Biomedical Engineering and Assistive Technologies, BEATs-2010**”, held at NIT Jalandhar, India, December 17-19, 2010.
- Gaurav Meena, A.L.Sangal ,” **An Efficient Technique used for characterization of low rate Denial of Service Attack**”, International Conference on Computational Intelligence and communication network CICN Bhopal,2010.
- Dr.Krishan Kumar, A.L.Sangal, Abhinav Bhandari, “ **Traceback Techniques Against DDOS Attacks A Comprehensive Review**”, 2nd International Conference on Computer and Communication Technology (ICCCT-2011)
- Syona Gupta, Geeta Sikka, Harsh Verma, “**A Survey on Recent Software Effort Estimation Techniques using analogies**”, Intl. Conference on Advances in Communication and Computing, 2011, pp 568-573.
- Munish Saini and Geeta Sikka “**Application of FP-Growth Algorithm for Early Warning of Equipment Failure**” in International Conference on Electronics, Information and Communication Systems Engineering (ICEICE-2011), Jodhpur Rajasthan India (Accepted)
- Sunil Kumar, Harminder Singh Bindra, A.L. Sangal, “**Performance Analysis of MANET Routing Protocols using TCP traffic for Freeway Mobility Model**”, ICWN’10 – The 2010 International Conference on Wireless Networks, USA, 2010.
- Dr.Krishan Kumar, A.L.Sangal, Abhinav Bhandari, “ **Traceback Techniques Against DDOS Attacks A Comprehensive Review**”, 2nd International Conference on Computer and Communication Technology (ICCCT-2011)

c) Books

NIL

d) RESEARCH SUPERVISION

SUPERVISION OF Ph.D. STUDENTS:

Sr	Name of Supervisor	Candidate	Status
1.	Dr. Ajay K Sharma	Mr. Sukhvinder Singh	On Going
2.		Ms. Neetu Sood	On Going
3.		Mr. Vinit Grewal	On Going
4.		Ms. Deepti Gupta	On Going
5.		Ms. Gausia Qazi	On Going
6.		Mr. Nischay Bahl	On Going
7.	Dr. A. L. Sangal	Mr. H. S. Bindra	On Going
8.		Mr. Sandeep Mehmi	On Going

9.		Mr. Sunil Gupta	On Going
10.		Mr. Abhinav Bhandari	On Going
11.		Ms. Ramanpreet Kaur	On Going
12.	Dr. Harsh K Verma	Ms Geeta Sikka	On Going
13.		Ms. Anupama Gupta	On Going
14.		Ms. Maninderjit Kaur	On Going
15.		Mr. Raman Kumar	On Going
16.		Mr. Sunil Gupta	On Going
17.		Mr. Nischay Bahl	On Going
18.		Mr. Sandeep Mehmi	On Going
19.		Ms. Neha Singh	On Going
20.	Dr. Renu Dhir	Ms. Rajneesh Rani	On Going
21.		Ms. Sheenam Goyal	On Going
22.		Mr. Raman Kumar	On Going

SUPERVISION OF M.TECH STUDENTS:**Dr. Ajay K Sharma**

Sr	Year	Candidate	<u>Thesis Title and Affiliation</u>
1.	2010-2011	Amandeep Kaur	Performance Investigations For Cognitive Radio Over fading Scenarios With encoding Techniques
2.		Arun Singh	Multiclient Multimedia Secured File Server Using Java Socket and RMI
3.		Ashish Kumar	Performance Evaluation Of Multicasting Network Over ICMP Ping Flood for DDOS-

SUPERVISION OF M.TECH STUDENTS:**Dr. A. L. Sangal**

Sr	Year	Candidate	<u>Thesis Title and Affiliation</u>
1.	2010 - 2011	Arjun Thakur	Quantitative Measurement and Comparison of Effects of Various Search Engine Optimization Parameters
2.		Gunjesh Kant Singh	Performance Analysis of Manet Routing Protocols Against Wormhole Attack
3.		Himanshu Sekhar	Gray Zone Effect in Manets on Proactive And Reactive Routing Protocols
4.		Santosh Kumar	Performance Evaluation and Comparison of Various Queuing Algorithms Against DDoS Attack

SUPERVISION OF M.TECH STUDENTS:**Dr. Harsh K Verma**

Sr	Year	Candidate	<u>Thesis Title and Affiliation</u>
1.	2010 - 2011	Akhil Singh	Analysis of Modified Blowfish Algorithm in Different Cases With Various Parameters
2.		Ravindra Kumar Singh	Design and Analysis of Enhanced RC6 and Twofish Block Cipher Algorithms for 256-Bit Blocks

3.		Saurabh Kumar Singh	LU Matrix Design For Key Establishment Mechanism In Wireless Sensor Network
4.		Vaibhav Dixit	Enhancement of Hash Chain Protocol and Analysis of Enhanced Protocol
5.		Ram Ji	Human Detection in Still Images Using R-HOG Algorithm with Improved Efficiency

SUPERVISION OF M.TECH STUDENTS:**Dr. Renu Dhir**

Sr	Year	Candidate	Co-Guide	<u>Thesis Title and Affiliation</u>
1.	2010 - 2011	Kartar Singh	Mrs. Rajneesh Rani	Handwritten Gurmukhi Character Recognition Using Statistical and Background Directional Distribution Features ,June 2011, National Institute of Technology, Jalandhar
2.		Anjali Kapoor		Image Processing, June 2011, National Institute of Technology, Jalandhar
3.		Mahesh Jangid	Mrs. Rajneesh Rani	Devanagari Numeral Recognition through recursive sub-division of the sampled image June 2011, National Institute of Technology, Jalandhar
4.		Ramesh Tiwari		Analysing Image Filtrations by Enhanced Fuzzy Logic, ,June 2011, National Institute of Technology, Jalandhar
5.		Sai Parkash	Mrs. Rajneesh Rani	Segmentation Handwritten Devanagari Script,June 2011, National Institute of Technology, Jalandhar

SUPERVISION OF M.TECH STUDENTS:**Mrs. Geeta Sikka**

Sr	Year	Candidate	<u>Thesis Title and Affiliation</u>
1.	2010	Syona Gupta	A New Algorithm to Improve the Performance of Aproiori Algorithm, National Institute of Technology, Jalandhar
2.	- 2011	Sangeeta Chouhan	Predicting Software Development Effort for Small data sets using grey relational analysis and robust regression, National Institute of Technology, Jalandhar
3.		Munish Saini	Improved hierarchical Clustering Algorithm for Time Series Data, National Institute of Technology, Jalandhar

Dr Ajay K Sharma**SUPERVISION OF Ph.D. STUDENTS:****Under Supervision:**

Sr No	Year	Candidate	<u>Area of Research and Affiliation</u>
1.	2010-11	Mr. Sukhvinder Singh Bamber	Wireless Sensor Networks "Performance Trade-off with IEEE 802.15.4 for Wireless Sensor Networks" National Institute of Technology, Jalandhar
2.		Ms. Neetu Kath	Wireless Communication Systems "Performance Analysis of Orthogonal Frequency Division Multiplexing in Generalized flat fading channels" National Institute of Technology, Jalandhar
3.		Ms. Vineet Grewal	Wireless Networks "Design and Performance Study of QOS Provisioning in Wi-Max Networks" National Institute of Technology, Jalandhar

Dr A.L. Sangal

SUPERVISION OF Ph.D. STUDENTS:**Under Supervision:**

Sr No	Year	Candidate	Area of Research and Affiliation
1.	2010-11	Sandeep Mehmi, RS, NIT, Jalandhar	Evaluation of various Aspects of Computer Networks , National Institute of Technology, Jalandhar
2.		Sunil Gupta, Gurgaon	Information Security , National Institute of Technology, Jalandhar
3.		H S Bindra, RS, NIT, Jalandhar	Evaluation of various Aspects of Computer Networks , National Institute of Technology, Jalandhar
4.		Mr. Abhinav Bhandari	Yet to be decided
5.		Ms. Ramanpreet Kaur	Yet to be decided

Dr Harsh K Verma

SUPERVISION OF Ph.D. STUDENTS:**Under Supervision:**

Sr No	Year	Candidate	Area of Research and Affiliation
1.	2010	Anupama Gupta, RS, NIT, Jalandhar	Image Processing and Security Applications , National Institute of Technology, Jalandhar.
2.	2010	Neha Singh, Assistant Professor, CEM, Kapurthala	Computer Networks , National Institute of Technology, Jalandhar.
3.	2010	Nishchay Behal, Assistant Professor CSE, DAV College Jalandhar	Wireless Sensor Networks , National Institute of Technology, Jalandhar
4.	2010	Sandeep Mehmi, RS, NIT, Jalandhar	Information Security , National Institute of Technology, Jalandhar
5.	2010	Sunil Gupta, Gurgaon	Information Security , National Institute of Technology, Jalandhar
6.	2007	Maninderjit Kaur, RS, NIT, Jalandhar	"Integration of QoS Parameters in Cognitive Radio Using Computing Techniques" National Institute of Technology, Jalandhar
7.	2007	Raman Kumar , Lecturer, DAVIET Jalandhar.	Information Security , National Institute of Technology, Jalandhar

Dr Renu Dhir

SUPERVISION OF Ph.D. STUDENTS:**Under Supervision:**

Sr	Year	Candidate	Area of Research and Affiliation
1.	2010	Rajneesh Rani, Assistant Professor CSE & RS, NIT Jalandhar	Image and Natural Language Processing , National Institute of Technology, Jalandhar
2.	2009	Sheenam Goyal, RS, NIT, Jalandhar	Information Security , National Institute of Technology, Jalandhar
3.	2007	Raman Kumar, Lecturer, DAVIET Jalandhar.	Information Security , National Institute of Technology, Jalandhar

7. Projects Completed/On Going/sponsored projects

- On going project - Information Security Lab development under Information Security Awareness Programme (ISEA) of Ministry of Communication & Information Technology, New Delhi.

8. Details of faculty, who have upgraded qualifications

NIL

9. Details of faculty who have enrolled for higher qualifications:

- Mrs. Geeta Sikka (Pursuing Ph D)
- Mrs. Rajneesh Rani (Pursuing Ph D)
- Mr. D. K. Gupta (Pursuing M Tech)

10. Short term courses/training programs/seminars/ conferences/ workshops/symposia attended by the faculty

- Dr. Harsh Kumar Verma participated in the CEP Workshop for “Coordinators for Database Management System” conducted by IIT Bombay during October 19–23, 2010.
- Dr. Harsh Kumar Verma participated in the National Conference on “Integrating Human Values in Technical Education” organized by Punjab Technical University Jalandhar during December 11-12, 2010.
- Dr. Harsh Kumar Verma attended and delivered an oral presentation in the 2011 International Conference on Intelligent Information Networks (ICIIN 2011) in Dubai, UAE during March 18-20, 2011.
- Dr Renu Dhir attended and Presented paper in the International Conference on Computer, Information, and Systems Science, and Engineering”, held at Dubai, UAE, January 25-27, 2011.

11. Short term courses/workshops/seminars organized:

- Dr Ajay Sharma and Mrs. Rajneesh Rani acted as remote center coordinator for the ISTE Workshop “Effective Teaching/Learning of Computer Programming” conducted by IIT Bombay from June 28 to July 10, 2010.
- Dr Harsh K Verma and Mrs. Rajneesh Rani acted as remote center coordinator for the Two-week ISTE Workshop on “Database Management Systems” conducted by IIT Bombay from December 13 to 23, 2010.

12. Patents secured/applied:

- Joint patent on “A Novel Method of FWM Suppression for DWDM and WDM Optical Transmission Links” with Center for Optoelectronics & Optical Communications University of North Carolina, Charlotte, USA by Dr. Ajay Sharma.

13. Expert talks delivered:

Name Of Resource Person	Topics Covered	Dates
Col Sh. Ashish Saxena F/o Late Mr. Akash Saxena New Delhi	Emerging Threats in Cyber Space	April 29, 2011
Dr Harsh K Verma	“Nurturance Programme”	January 10 – 14, 2011

14. Consultancy services completed/on going: NIL**15. Students’ activities organized by PACE (Professional Association of Computer Engineers) from 2008 onwards**

- Organized technical and general aptitude Quiz-X in which more than 100 teams participated 12th November 2008.
- Organizing technical Robotics event of White line follower Autonomous Robot Event 22nd April 2009.
- Organized an event of MOCK Placement examination for three days from 30th March to 1st April 2009.
- Organizing Fresher/Introduction and farewell parties every year.

16. Membership to professional bodies

Dr. Ajay K Sharma

- **Life member** of ISTE, New Delhi.
- **Life member** of Optical Society of America, USA
- **Life member** of SPIE.
- **Life fellow** of IETE, New Delhi.
- **Life member** of Optical Society Of India, Kolkata.
- **Life member** of Computer Society of India, Mumbai.
- **Life member** of Advanced Computing and Communication society, Bangalore.
- **Technical reviewer** for The Journal of SPIE- The International Society for Optical Engineering, USA.
- **Technical reviewer** for the Journal Optics Letters Optical Society of America, USA.
- **Technical reviewer** for the Journal Optics Communication, Elsevier, USA.
- **Technical reviewer** for the Journal Digital Signal Processing (DSP), Elsevier, USA.

- **Life member** of Indian Society for Technical Education (I.S.T.E.), New Delhi.
- **Member**, Editorial Board, International Journal on Computer Engineering and Information Technology, Scientific Engineering Research Corporation, India and USA
- **Member**, International Review Board, *The International Journal of Engineering Research & Innovation (IJERI)*, California State University, Northridge, CA, USA
- **Member**, International Scientific Committee, 3rd International Conference on Intelligent Systems and Networks (IISN-2009) (February 14-16, 2009), Klawad, Distt.Yamuna Nagar (Haryana)

Dr Harsh K Verma

- **Dr. Harsh Verma** nominated as member of Board of Studies in Chemical Engineering discipline on December 9, 2010.
- **Dr Harsh K Verma**, Awarded by Punjab Unaided Technical Institutions Association for Outstanding Contribution to technical education
- **Life member** of Indian Society for Technical Education (I.S.T.E.), New Delhi

17 Any other significant achievement

- **Dr. Ajay K Sharma** is appointed as Dean Planning and Development.
- **Dr Harsh K Verma** awarded the certificate of excellence in recognition of his contribution as remote center coordinator in the successful completion of the Two-week ISTE Workshop on "Database Management Systems" conducted by IIT Bombay from December 13 to 23, 2010.
- **Dr Harsh K Verma** invited to be the session chair of 2nd International Conference on Production and Industrial Engineering in NIT Jalandhar during December 3-5, 2010.
- **Dr Harsh K Verma** invited to be the session chair of the 2011 International Conference on Intelligent Information Networks (ICIIN 2011) in Dubai, UAE during March 18-20, 2011
- **Pankaj Yadav, Sumit K Saini** (3rd year, CSE) and Arvind Deorani (final year, ICE) 2nd prize in the robotics event named Xtension at KHITIJ 2010 (IIT Kharagpur techfest)
- **Dr. A. L. Sangal** is coordinator AIEEE admissions in 2010 and 2011.

Department of Electronics and Communication

1. ACADEMIC PROGRAMS

- B.Tech (ECE),
- M.Tech (ECE) Regular
- M.Tech (VLSI Design) Regular
- Ph.D (Part Time/ Regular)

2. NEW EQUIPMENT PROCURED

Name of Equipment	Year of Purchase
Mathematica	2010
IDL Data Analysis and Visualization Software	2010
Klystron Tube 2K25	2010
Klystron Power Supply	2010
Frequency Meter	2010
Flexible Cable Set 3.5mm	2011
3.5 mm N Type Adapter Kit	2011
Economy Mechanical Calibration Kit N Type	2011
Networking Equipment i.e. Servers, Switches	2010
Workstations for different laboratories	2010
Littman stethoscope	2010
Proton Digital BP Meter (MAM Based)	2010
Manual BP meter	2010
Weight Measurement Device	2010
Height Measurement Device	2010
Semielectric Shriyan motorized surgical bed with multi axis rotation.	2010
Data Logger and Telemetry Physiology Monitoring System	2010

3. RESEARCH AND DEVELOPMENT ACTIVITIES

VLSI, Microwaves, Optical and Wireless Communication, Fuzzy Systems, Neural Networks and Soft Computing, Biomedical Signal Processing.

4. DISSERTATION COMPLETED

DOCTORAL DISSERTATION COMPLETED

Topic	University	Candidate Name	Supervisor
Investigation in Evolution of Type1 and Type2 Fuzzy Systems.	Maharshi Dayand University, Rohtak.	Mr Satvir Singh	Dr Arun Khosla

PG DISSERTATION COMPLETED

Topic	Candidate Name	Supervisor (s)
Analysis of Leakage Power Reduction Techniques in Digital Circuits.	Mr. Anup Jalan	Er. Mamta Khosla
Bandwidth Extension of High Gain Two Stage Operational Amplifier with NCG Circuit	Mr. Amit Kumar Singh	Er. Mamta Khosla

ASIC Implementation of DLL Based Clock and Data Recovery Circuit*	Mr. Vivek Kumar	Er. Mamata Khosla
Improving the PSNR using wavelet based image denoising algorithms	Mr. Rakesh Kumar	Dr. B.S. Saini Dr. Arun Khosla
Power allocation for spectrum underlay in cognitive radio system	Mr. Vinay Kumar	Ms. Deepti Kakkar Dr. B.S. Saini
Designing of a High Speed High Resolution Preamplifier Latch Comparator Using Self-biased Differential Amplifier	Mr. Chandan Singh	Er. Ashish Raman
ASIC Implementation of a reconfigurable Decimation filter using vedic algorithm	Mr. Vignesh V.	Er. Ashish Raman
A 0.18 μ m CMOS High Performance Differential Voltage Controlled Ring Oscillator for Radio Frequency	Miss Jayanidhi Vashishtha	Er. Ashish Raman
Analysis of Wavelet Filters for ECG Image Compression using SPIHT	Mr. Vaibhav Srivastva	Ms. Indu Saini
Classification of Cardiac Arrhythmia using Artificial Neural Network	Miss Shilpi	Ms. Indu Saini Dr. B.S. Saini
Aging effect on HRV dynamics: An FFT based analysis	Mr. Ranjan Pandey	Dr. R.K. Sunkaria Ms. Indu Saini
Carrier Frequency Offset Correction in OFDM systems by Blind Identification Algorithm	Mr. Manish Mittal	Ms Neetu sood Dr Arun Khosla
Analytical error rate analysis of OFDM system over Nakagami-m and Nakagami-n (RICE) Fading channels	Mr. Mukesh Mishra	Ms Neetu sood
Phase Noise Compensation in OFDM Based communication System	Mr Anuj Kumar	Ms Deepti Kakkar Ms Indu Saini
Performance evaluation of UWB wireless communication with fading for different Modulation techniques	Ms Jasdeep kaur	Ms. Deepti Kakkar Dr Ajay K Sharma
Optimization of wavelet based image fusion for multi-focused images	Hemant Singh Ajal	Dr R K Sunkaria
Design and implementation of space time encoder for wireless systems	Aditya Kumar	Dr R K Sarin
Analysis and modeling of 1/f noise in mosfets for circuit applications	Hardev Singh	Dr R K Sarin
Implementation of cyclic space frequency filtering for MIMO applications	Sunil Kumar	Dr R K Sarin
Study of channel coding and ASIC of trellis coded modulation encoder/decoder	Umakanta Parida	Dr R K Sarin
Performance aspects and study of velocity adaptive handover scheme for mobile WiMax	Md. Imtiyaz Anwar	Dr Arun Khosla Ms Neetu Sood
QoS comparative analysis of multicast routing protocols for MANETs	T. Pritika	Dr Arun Khosla Ms Neetu Sood
Comparative Investigation on BER in Coded OFDM Systems with Nakagami-m and Alpha-Mu fading distributions	Shiv Kumar Singh	Ms Neetu Sood Dr Ajay Kumar Sharma
Modeling of the Worst Case Delays of Cluster Tree Topology	Neha Sharma	Ms Neetu Sood Dr Ajay Kumar Sharma

6 STUDENTS REGISTERED FOR Ph.D

- 1 students registered for Ph.D in ECE Department

7. STUDENTS ACTIVITIES ORGANIZED

Event	Date	Detail
Fresher's Party		Welcome Party for first year students
Mock Test by TIME		Mock Test of CAT conducted by TIME
Art Mela and Engineer's day	15.09.2010	ART MELA and Engineers day celebrations (on bday of M.Visvesvaraya) on 15th Sept. 2010
Farewell Party		Farewell party given by the students of ECE to the current Final year students.
Interaction with Dr. J.Philip	01.12.2011	Interaction with Dr. J. Philip (Professor, Humanities and Social Sciences Department, NIT, Kurukshetra) for Final year Students (01st Dec. 2011)

8. RESEARCH PUBLICATIONS IN INTERNATIONAL AND NATIONAL JOURNALS AND INTERNATIONAL CONFERENCES***International Conferences***

- Keshri Pankaj Kumar, Singh Navdeep, Sarin R.K. and Singh Sarabjeet, "A Slotted Microstrip antenna for W-LAN, C-Band and X-Band Applications" International Conference on Advances in Computing and Communication, NIT Hamirpur, 8-10 April, 2011.
- Singh Navdeep, Keshri Pankaj Kumar, Singh Sarabjeet, Sarin R.K., "A Novel slotted Antenna for C –Band Applications" UGC sponsored International Conference on Communication and Computing Technologies, Feb, 2011.
- Ashish Raman, Prakash Chandra Joshi and R K Sarin "Design and Implementation of Low Power Chip Uniprocessor using GALS Design Style" International conference on Information and Multimedia Technology (ICIMT-2010 Hongkong, China, 28-30 December 2010
- Khosla Mamta, Sarin R K, Moin Uddin, "Hardware Architecture for an interval type-2 fuzzy processor", BEATS Jalandhar, 17-19 December 2010.
- Singh Harjit Pal, Singh Sarabjeet, Sarin R K, Singh Jasvir, "Analysis of FIR a Interpolation Filter for VoIP in Noisy Environment", CICSYN2010 Liverpool, UK.

International Journals

- Navdeep Singh, Pankaj Kumar Keshri, Sarabjeet Singh and R.K Sarin, "A New Slotted EBG Antenna for WiMax Band or 802.11a Band Applications", CIIT International Journal of Wireless Communication, Vol. 3, pp 218-221, March 2011.
- Navdeep Singh, Pankaj Kumar Keshri, Sarabjeet Singh and R.K.Sarin, "A Novel slotted Antenna for C –Band Applications", Apeejay Journal of Computer Science and Applications, pp 220-222, 2011.

- Singh Hardev, Sarin R.K, Singh Sarabjeet, "Analysis and Modeling of 1/f Noise in MOSFETs for Circuit Applications: The Joint Effect of Channel Length and Conducting Slab Resistance", Canadian Journal on Electrical and Electronics Engineering, Vol. 1, Page No. 6, 2010.
- Raman Ashish, Kumar Anvesh, Sarin R K, "High Performance Reconfigurable FFT Design by Vedic mathematics", Journal of Computer Science and Engineering Vol 1, Issue 1, May 2010
- Navdeep Singh, Sarabjeet Singh, Amit Kumar and R.K. Sarin, "A Planar Multiband Antenna with Enhanced Bandwidth and Reduced Size", International Journal of Electronic Engineering Research, Vol 2, No 3, pp. 341–347, 2010.

10. SPONSORED PROJECTS

Project Title	Project Duration	Amount Received (Rs. in lacs)	Funding Agency	Status (Completed/ In progress)
SMDP-II	5 yrs	1.1 Crores	MCIT, Govt. of India	In Progress
Soft computing based techniques for modeling of medical imaging systems	3.5 yrs	8.00	MHRD	Completed
Investigations on Reconfigurable Computing	3.5 yrs	8.00	MHRD	Completed

11. QUALIFICATION IMPROVEMENT (FACULTY)

1. Er R K Sunkaria completed PhD thesis
2. Er Mamta Khosla, Er Indu Saini, Er Deepti Kakkar, Er Ashish Raman, Er Neetu Sood pursuing PhD

12. CONFERENCES/SEMINARS/WINTER/SUMMER SCHOOLS ORGANIZED

- International conference on Biomedical Engineering and Assistive Technologies (BEATS) from 17th-19th December 2010.
- Workshop on software tool Mathematica.

13. SHORT TERM COURSES/WORKSHOP ATTENDED BY FACULTY

Faculty	Course	Place	Date	Sponsored
Dr R K Sunkaria	Medical Image and signal processing	IIT Roorkee	13-17 June 2011	NIT Jalandhar.

14. OTHER ACHIEVEMENTS/ INITIATIVES (FACULTY)

- Dr R K Sarin, Dean Academics & Professor earned the following distinctions:
 - Coordinator of VLSI Project -SMDP II- at NIT Jalandhar
 - Member, IEEE
 - Fellow, IETE.
- Dr Arun Khosla, Associate Professor and HOD earned the following distinctions:
 - Member Editorial Board, International Journal of Swarm Intelligence Research
 - Reviewer, IEEE Transactions on Information Technology in Medicine
 - Technical Reviewer, International Journal of Telemedicine and Applications, Hindawi
 - Reviewer, Information Sciences Journal (Elsevier)
 - Program Committee Member, IEEE Swarm Intelligence Symposium 2011, Paris, France

- Convener, International Conference on Biomedical Engineering and Assistive Technologies (BEATS-2010), Dec 17-19, 2010, Jalandhar, India
 - Program Committee Member, International Conference on Swarm Intelligence (ICSI-2011), Chongqing, China
 - Program Committee Member, International Conference on Swarm Intelligence (ICSI-2010), Beijing, China
 - Member, IEEE
 - Member, IEEE Computer Society
 - Member, IEEE Signal Processing Society
 - Member, IEEE Engineering in Medicine and Biology Society
 - Life Member, Indian Society for Technical Education
 - State Student Co-ordinator (Punjab and Chandigarh), Computer Society of India
- Mamta Khosla, Associate Professor earned the following distinctions:
- Member, IEEE
 - Member, IEEE Circuits and Systems Society
 - Member, IEEE Solid-State Circuits Society
 - Member, VLSI Society of India
 - Honoured by Guru Harkrishan Educational Society, Chandigarh for standing first in Punjab Technical University in M.Tech. program
- Dr R K Sunkaria, Assistant Professor earned the following distinctions:
- Reviewer of IETE Journal of Research, India
 - Reviewer for Journal of Optics
 - Reviewer for International Journal of Signal and Imaging Systems Engineering (IJSISE)
 - Reviewer for International Conference on Biomedical Engineering and Assistive Technologies (BEATS)-17-19 Dec, 2011
 - Session Chair for Technical sessions in International Conference on Biomedical Engineering and Assistive Technologies (BEATS-2010), Dec 17-19, 2010.
 - Reviewer, Journal of Signal and Information Processing (JSIP)
 - Member, IEEE
 - Member, IEEE Computer Society
 - Member, IEEE Signal Processing Society
- Neetu Sood, Assistant Professor earned the following distinctions:
- Member, IEEE
 - Reviewer, International Journal of Communication System(IJCS, Wiley)
 - Reviewer, International Journal of Wireless Communications and Mobile Computing
 - Reviewer, IEEE International Conference on Computer Science and Information Technology. (ICCSIT-2011)
 - Reviewer-International Conference on Intelligent System and Data Processing (ICISD-2011)

Humanities & Management

1. UNDERGRADUATE PROGRAMME

The department offers the Core and Elective courses to the B Tech students of all Engineering disciplines. The compulsory courses in the B Tech new scheme are English Communication Skills, Introduction to Management, Psychology of Human Behavior and English Communication Laboratory. In the new scheme of B Tech 3rd to 8th Semester, department has introduced eleven new interdisciplinary courses.

2. POSTGRADUATE PROGRAMME

The department will offer two-year full-time MBA Programme from the next session i.e. 2011-2012, at par with leading Management Schools offering specializations in Marketing Management, Human Resource Management, Financial Management, Strategic Management and Information Technology. The proposal for the same has been duly approved by the Senate and Board of Governors.

3. DOCTORAL PROGRAMME

The Department has started PhD Programme in the current academic session, July 2011 – June 2012, in the following areas:

- Human Resource Management
- Marketing Management
- Financial Management
- Entrepreneurship Development & Management
- Economics
- English Literature
- Linguistics

4. CAREER DEVELOPMENT/ACHIEVEMENT

- Dr Sarbjit Singh Bedi has been awarded PhD degree in Business Management from Guru Jambheshwar University of Science & Technology, Hisar, Haryana (2010).
- Dr Jagwinder Singh has been awarded PhD degree in Management from Panjab University, Chandigarh (2010).

5. COMMUNICATION AND COMPUTER LABORATORY

The Department has established Communication Laboratory in order to enhance communication skills of the students. Moreover, in order to train students for practical exposure to survey research, department has set up high tech lab with computing facilities using various software's like SPSS, E-Views, Clementine, SAS etc. The communication lab plays a vital role in making teaching method successful in a novel way.

The Department of Humanities & Management was established in 1987 and is one of the premier centres of Humanities and Management in the country. It offers subjects ranging from Communication Skills to Introduction to Management, from Business Management to Psychology and Entrepreneurship approaches. It has a well-equipped Communication Lab with multi-media audio-visual systems and computers. In addition, there is a library which stocks relevant books on Communication and other allied subjects. Apart from imparting instruction at the Masters (MBA) and Undergraduate (B Tech) level, exclusive research work in new and challenging areas is being conducted by the faculty as well as the students. The Department organizes curricular and co-curricular activities for the students, including Quiz Contests, Seminars, Declamation Contests and Group Discussions. In addition, the Department is in the process of bringing out a refereed research Journal annually. The faculty of the Department is actively engaged in research pursuits and has authored several research papers and books. The Faculty includes several highly visible academics who have traveled extensively for academic purposes. At the same time, they are involved in the various administrative bodies of the university and contribute towards the running of the home institution. The Department enrolls more than 500 students every semester for different programmes at Bachelors, Master's and PhD. There is a Humanities & Management Society called The HUMANAGER that organizes events from time to time.

6. RESEARCH AND CONSULTANCY AREAS

- Strategic Marketing
- Finance and Applied Economics
- Time Series Analysis and Forecasting
- Marketing and Entrepreneurship Management
- English Literature & Linguistics
- Communication Skills
- Faculty members of the department have papers and articles published in national and international journals. The active research culture is further enhanced by staff members presenting papers at national and international conference.

7. FOREIGN VISITS

- Dr Kumar Parag has presented a research paper titled "An Unbelievers' Islamic Journey" in Humanities & Social Science Conference, Singapore, 2011.

- Dr Kumar Parag has presented a research paper titled “Cross Cultural Perspective in Bharti Mukherjee’s Jasmine” Hongkong, 2010.
- Dr. Sanjeev Gupta presented a research paper entitled, “Future Prospects of Small Scale Industrial Sector of Punjab: An Empirical Assessment” at 11 IBIMA International conference held on 4-6 January 2009 at Cairo, Egypt.
- Dr Kumar Parag presented a research paper titled “V S Naipaul: An eccentric of 21st century” in Manchester held between 14-18 July, 2008.

8. RESEARCH PAPERS PRESENTED/PUBLISHED

- Dr. Sarbjit Singh Bedi , Head, Department of Humanities & Management presented a research paper entitled “Role of Entrepreneurship Development Organizations in Promoting and Developing Entrepreneurship” at International Conference organised by Guru Jambheshwar University of Science and Technology, Hisar, from 26-27 March, 2010.
- Dr Sarbjit Singh Bedi and Dr H. L. Verma’s paper entitled “Entrepreneurship Development in Punjab Haryana: A study with special reference to Entrepreneurship Development Programmes’ is published in *International Journal of Dronacharya College of Engineering, Gurgaon (Haryana)* in March, 2010 volume.
- Dr Sarbjit Singh Bedi and Dr H. L. Verma’s paper entitled “Impact of Entrepreneurship Training on the Development of Entrepreneurs” is published in *Interdisciplinary Journal of Contemporary Research in Business*, Vol.1.(10), pp 61-82, (ISSN 2073 7122) (February, 2010) UK Chapter, Canterbury, Kent, CT2, 7PE, United Kingdom.
- Dr Jagwinder Singh, Preference of Retailers: A Comparison of Rural and Urban Households. *Global Journal of Management and Business Research*. Vol. 11, No. 2, February 2011.
- Dr Jagwinder Singh and Dr B B Goyal, Brand Decisions and Brand Influence: A comparison of Rural and Urban Consumers. *Global Journal of Management and Business Research*. Vol. 10, No. 1, February 2010.
- Dr Jagwinder Singh and Dr B B Goyal, Influence of Family Members on Household Buying- A comparative Study of Rural and Urban households. *Interdisciplinary Journal of Contemporary Research in Business*. Vol. 1, No. 9, January 2010.
- Dr Sanjeev Gupta’s paper entitled “Future Prospects of Small Scale Industrial Sector of Punjab: An Empirical Assessment” published in *Communications of the IBIMA*, Volume 7, Number 11, (2009), pp. 102-110.
- Dr Sanjeev Gupta’s paper entitled “Malmquist productivity and Efficiency Analysis for Banking Industry in India” published in *International Journal of Business Excellence*, Volume X, (2009).
- Dr Sanjeev Gupta’s paper entitled “An Empirical Study to Explore the Dimensions of Effective Exit Interviews” published in *Management Perspective*, Vol. 1, No.1, (2009), pp. 44-48.

9. MEMBER ADVISORY COMMITTEE

Dr Sarbjit Singh Bedi, Head Department of Humanities & Management was appointed as a Member of National Advisory Committee for National Conference on “Modern Management Practices & Information Technology Trends” held on 17 -18 April, 2009 organized by DAV Institute of Engineering and Technology, Jalandhar, Punjab.

10. WORKSHOPS ORGANISED/ATTENDED

- Dr Sarbjit Singh Bedi attended One-day Workshop on “Entrepreneurship Trainers Motivator” organized by Regional Centre for Entrepreneurship Development at Chandigarh on 24th March, 2011.
- Dr Sarbjit Singh Bedi attended One-day Workshop on “Entrepreneurship Opportunity for Youth in Changing Economic Scenario” and interacted with the participants. The workshop was organized by Regional Centre for Entrepreneurship Development at Chandigarh on 9th March, 2010.

- Dr Jagwinder Singh attended AICTE sponsored Short Term Course on Enhancing Organizational competitiveness in the Era of Globalization and Liberalization, from January-04-09, 2010 at Dept. of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar.
- Dr Sarbjit Singh Bedi, Head Department of Humanities & Management attended State level workshop and orientation programme on Prime Minister Employment Generation Programme(PMEGP), organized at Guru Jambheshwar University of Science and Technology, Hissar on March 17 2009.
- The Department of Humanities & Management organized workshop on Communication Skills for B Tech students on September 11, 2008.

11. INITIATIVES

- New building of the Department of Humanities & Management is in the forthcoming plan of construction of the institute.
- New Computation Laboratory is being set up in the Department.
- Workshop on “**Communication Skills**” for budding engineers will be organised to enhance their communication skills.
- Workshop on “**Entrepreneurship Awareness**” will be organised to inculcate spirit of initiative and enterprise among the budding engineers.
- “**Entrepreneurship Development Programme**” will be organised to apprise the participants with various aspects of enterprise launching & management.
- “**Management Development Programme**” will be organised for existing entrepreneurs and managers.

Department of Industrial Engineering

1. Bachelor of Technology

Industrial & Production Engineering

2. M.Tech (Full Time)/ M.Tech (Part Time)/ M.Tech (Research)/Ph.D/M.Sc

M.Tech (Full Time)

Manufacturing Technology

M Tech (Part Time)

Industrial Engineering

Ph D

Industrial & Production Engineering

3. STUDENTS

4. B.Tech.

Name of the UG/PG Programme	Total Intake	AdmittedCandidates
(A) B. Tech.		
Industrial & Production Engineering	82	43

5. **M.Tech (Full Time)/ M.Tech (Part Time)/ M.Tech (Research)/Ph.D/M.Sc**

Name of the UG/PG Programme	Total Intake	AdmittedCandidates
(B) M Tech (Full Time)		
Manufacturing Technology	18	11
(C) M Tech (Part Time)		
Industrial Engineering	13	9
(E) Ph D		
Industrial & Production Engineering	--	02

- Student's car design project selected from India to participate in Shell Eco Marathon in Malaysia

6. **RESEARCH AND DEVELOPMENT ACTIVITIES**7. **Ph.D Programmes- Existing and Proposed**

Existing Ph.D Programmes	No of students
Industrial & Production Engineering	18

8. **Details of Ph. D done so far: 18 (in process)**9. **Research Projects and Consultation Jobs**

MOU with TIFAC for technology analysis study of :

- Sewing machine cluster of Ludhiana
- Bicycle components manufactureres cluster Ludhiana

Total grant received: 20 lacs @ Rs 10 lacs per project

10. **Research publications**

1.	Experimental investigations of electrical discharge machining of high carbon high chromium steel (Dr R K Garg)	Journal of Manufacturing Engineering, 2009	2010	2010, 5(1),	pp 5-10.
2.	Status of Continuity forces in Indian Industry: A Survey (Dr R K Garg)	Int. J. Business Continuity and Risk Management (,Inderscience Publishers)	2010	2010, Vol-1, No 2,	pp 166-186.
3.	Review of research work in sinking EDM and WEDM on metal matrix composite materials (Dr R K Garg)	International Journal of Manufacturing Technology and Management (IJMTM).	2010	DOI	10.1007/s00170-010-2534-5
4.	Total productive maintenance (TPM) implementation: a case study (Dr R K Garg)	International Journal of Business Research ISSN:1555-1296 issued by the Library of Congress, Washington	2010	Accepted publication	for
5.	"OEE Improvement by TPM: A Case Study" (Dr R K Garg)	International Journal of Advanced Operations Management (IJAOM).	2010	Accepted publication	for

6.	Improving material removal rate in sinking electrical discharge machining: A review (Dr R K Garg)	International Journal of Minerals and Materials Characterization and Engineering	2010,	Vol 9, No 8	Pp 709-739
7.	A study of continuity forces in Indian industry (Dr R K Garg)	Journal of International Business and Economics,	2010	ISSN:1544-8037 issued by the Library of Congress, Washington	
8.	Analysis & Evaluation of Heat Affected Zones in Electrical discharge Machining of EN-31 Die steel. (Dr R K Garg)	Indian Journal of Engineering & Material Science (IJEMS)	2010	Vol. 17,	Pp 23-33
9.	The effect of Nickel micro-powder suspended dielectric on EDM performance measures of EN-19 steel (Dr R K Garg)	Journal of Engineering and Applied Sciences	2011	Vol 6, Issue 1,	Pp 27-37
10.	Occupational noise and hearing conservation of industrial workers in casting, forging industry in Northern India (Mr L P Singh)	International Journal Of Human Geography And Environmental Studies,	2009	Vol 1, Number 1	46-51.

Short term training programs conducted

- a. Summer School on "Enhancing Competitiveness through Change Management" from 07-11, June, 2010 (Coordinators: Dr R K Garg and Dr A Sachdeva)
- b. Summer School on 'Prespectives of metal Cutting ' from 12-17, July, 2010 (Coordinators: Dr A Bhardwaj, Dr V Sharma, Dr A Sachdeva)
- c. Summer School on 'Industial Engineering in current business paradigm' from 12-17, July, 2010 (Coordinators: Dr A Bhardwaj, Dr V Sharma, Dr A Sachdeva)

Department of Instrumentation and Control Engineering

1. Academic Programmes

- a) B.Tech in Instrumentation and Control Engineering w.e.f. 1990.
- b) M Tech (Full Time) in Control & Instrumentation Engineering w.e.f. August 2006
- c) Ph.D programme in Instrumentation and Control Engineering
- d) M.Tech (Part-Time) in Control & Instrumentation Engineering w.e.f. July 2010

2. Development of Laboratories

The Department has fully established and now making efforts to modernize the following laboratories:

1. Analytical Instrumentation Laboratory
2. Control Engineering Laboratory
3. Electrical Machines and Drives Laboratory
4. Electrical Measurement and Circuit Laboratory
5. Fabrication Unit and Transducers Laboratory
6. Microprocessor based Instrumentation Laboratory
7. Process Control Instrumentation Laboratory
8. Biomedical Instrumentation Laboratory
9. Virtual Instrumentation Laboratory
10. Robotics and Automation Laboratory

11. Signal Processing Laboratory

In addition to above, the Department is in the process of developing the following new laboratories:

- 12. Calibration Laboratory
- 13. Human Machine Interface Laboratory
- 14. Wireless Networking Laboratory

3. Research and Development Activities

All non-Ph D faculty members already registered for Ph D and are pursuing research in their concerned areas.

- i) Ph.D programme of Mr B S Saini, Ph D Scholar under the supervision of Dr Dilbag Singh was completed and awarded degree on 23.04.2010. The topic of his Ph D was “Signal Processing of Heart Rate Variability”.
- ii) The comprehensive Examination of Mr Butta Singh, Research Scholar (Part-Time) registered in the Department was held on 18.12.2010.
- iii) The comprehensive Examination of Mr Jagroop Singh, Research Scholar (Part-Time) registered in the Department was held on 18.12.2010

4. Students Registered for M Tech, M Tech by Research and Ph.D (Number, area of Research)

- i) 17-students are registered to M Tech (Full Time) and 05- students M Tech (Part-Time) Programmes in Control & Instrumentation Engineering during the session 2010-11.
- ii) At present 06-Part Time and 01-Full Time students are registered for Ph.D Programme in the Department.

5. Research Publications (in Bibliographic format)

a) International Journals

Dilbag Singh

- B. S. Saini, Dilbag Singh, K. Vinod, “Optimal Lomb transform variant in HRV assessment” International Journal of Medical Engineering and Informatics (Inderscience, USA) , vol 2(2), pp.177-194, 2010
- Dilbag Singh Moin Uddin, Jagroop Singh and Sukhwinder Singh, “Efficient DCT domain measurement of blocking artifacts” Journal of Information & Computing Science (WAP, UK) , vol. 5(1), pp. 047-054, 2010
- Dilbag Singh, Butta Singh, “Modified multiscale entropy in HRV for automatic selection of threshold value” International Journal of Medical Engineering and Informatics (Inderscience), USA), 2010, accepted for publications.
- Dilbag Singh, Butta Singh, A.K. Jaryal and K.K. Deepak, “Ectopic beats in approximate entropy and sample entropy based HRV assessment” International Journal of Systems Science (T&F, UK), 2010, accepted for publication.
- Dilbag Singh, J. Singh, S. Singh, and Moin Uddin, “A signal adaptive filter for blocking effect reduction of JPEG compressed images”, International Journal of Electronics and Communications (Elsevier, UK), 2011, accepted for publication

Rajesh Singla

- Rajesh Singla, “Analysis of CSTR temperature control with adaptive and PID controller(A comparative study), “ IACSIT International Journal of Engineering and Technology, Published online www.ijetch.org/papers/164-T494.pdf, ISSN number:1793-8236 , Vol 2, No 5, pp 453-458, October 2010

b) **National Journals**

N.A. for the period under report

c) **International Conferences****Narinder Singh**

- Narinder Singh, Rajiv Sharma and N S Rekhi, "LQR controller for two link rigid manipulators", International Conference on Biomedical Engg. & Assistive Technologies" at Dr B R Ambedkar NIT Jalandhar, Dec. 17-19, 2010
- Narinder Singh, Rajiv Sharma and N S Rekhi, "Optimal Control of Flexible link manipulator", International Conference on Test & Measurement (ICTM-2010), Puket, Thailand, Dec. 1-2, 2010

Dilbag Singh

- Dilbag Singh, Butta Singh, "Ectopic Beats in Poincaré Plot Based HRV Assessment", 4th Int. Conf. on Computer Applications in Electrical Engineering-Recent Advance (CERA-09), IIT Roorkee, pp. 18-21, Feb. 19-21, 2010
- Dilbag Singh, Jagroop Singh, Sukwinder Singh and Moin Uddin, "Blocking Artifact Detection in Compressed Images", 4th Int. Conf. on Computer Applications in Electrical Engineering-Recent Advance (CERA-09), IIT Roorkee, pp. 39-42, Feb. 19-21, 2010

S K Pahuja

- Sarwan Kumar, Sneha Anand, Amitsen Gupta, "Real –Time Monitoring of Fetus Movements and Uterine Contractions Using MEMS Acoustic Sensor", IEEE 7th international conference on Information Technology at USA from April 12-14, 2010, pp. 317-320.

Sheela Tiwari

- Barya, K., Tiwari, S., Jha, R., "Comparison of LQR and robust controllers for stabilizing inverted pendulum system", International Conference on Communication Control and Computing Technologies (ICCCCT), 2010 IEEE, Syed Ammal Engineering College, Ramanathapuram and St. Xavier's Catholic College of Engineering, Kanyakumari, pp. 300-304, Oct 07- 09, 2010
- Khushboo Barya, Sheela Tiwari, "Control of Nonlinear System: A review", International Conference on Engineering Innovations: A fillip to Economic Development (ICEI2K10), Continental Group of Institutes, Feb 18-20, 2010

Rajesh Singla

- Rajesh Singla, "Application for Adaptive Control in Process Control", ICETC 2010 (The 2nd international conference on education technology and computer), sponsored by IEEE education, Shanghai, China, Paper is in IEEE explore with digital object identifier 10.1109/ICETC.2010.5529373, vol. 22-24 , pp. 323-327, June 2010.
- Rajesh Singla, "EEG eye blink classification using Neural Network", WCE 2010 (World Congress of Engineering 2010) London, UK, ISBN: 978-988-17012-9-9 ISSN: 2078-0958 (Print); ISSN: 2078-0966 (Online), Pg(63-66), 30 June to 02 July 2010,.

Kuldeep Singh Nagla

- K S Nagla and Dilbag Singh MoinUddin, "Low cost ROV for hydraulic measurements and navigation within the canals/rivers", 8th Int. Conf. on Hydraulic Efficiency Measurement (IGHM-2010) Roorkee, Oct. 21-23, 2010.

d) **National Conferences****Rajesh Singla**

- Rajesh Singla, "Simulation of Model Reference Adaptive control on a CSTR ",National Conference on Recent advances in computational techniques in electrical engineering" held at SLIET Longowal, (19-20) March, 2010
- Rajesh Singla, "Improvement of boiler performance(efficiency) using PLC", National Conference on Recent advances in computational techniques in electrical engineering" held at SLIET Longowal, (19-20) March, 2010

6. **Projects Completed / on going / sponsored projects**

- ❖ Design and Development of Underwater Robot: (In Progress), Funding agency Dr. BR Ambedkar National Institute of Technology Jalandhar.
- ❖ Over 150 ECGs recorded for ongoing project 'ESTABLISHMENT OF A DATABASE OF ECGs RECORDED FROM A HEALTHY NATIVE INDIAN POPULATION' in collaboration with Prof. P.W. Macfarlane, University of Glasgow; Prof. Vinod Kumar, IIT Roorkee; Dr. S.T. Hamde & Mrs.V.R. Thool, SGGS Institute of Engineering & Technology, Nanded.
- ❖ VSAT-Enabled Mobile e-Learning Terminals, a project under National Mission on Education through Information and Communication Technology of Ministry of Human Resource Development, Government of India.

7. **Details of faculty, who have upgraded qualifications**

N.A. for the period under report

8. **Details of faculty who have enrolled for higher qualifications**

N.A. for the period under report

9. **Short term courses / training programmes / seminars / conferences / workshops / symposia attended by the faculty****A K Jain**

- Attended an International Workshop on "Biomedical Science and Technologies (WBMST-2011)" held at Anna University from March 02-04, 2011.

Narinder Singh

- Attended and presented a paper entitled "Experimental implementation of Pole Placement Techniques for Active Vibration Control of Smart Structures" in International Multi Conference of Engineers and Computer Scientists 2010 held at Hong Kong from March 17-19, 2010.

Dilbag Singh

- Training Programme on "Test Facilities" held at Central Power Research Institute, Bangalore from September 06-10, 2010.
- Attended and presented a paper entitled, "Kinematics Analysis of Low Cost ROV Designed for Navigation of Canal/Rivers" in 8th International Conference Hydraulic Efficiency Measurement (IGHM 2010) held at IIT Roorkee from October 21-23, 2010.
- Attended a International Workshop on "18th Annual IEEE IAS Electrical Safety" held at Sheraton Centre in Toronto, Ontario from January 24-28, 2011.

S K Pahuja

- Attended and presented a paper entitled “Real-Time Monitoring of Fetus Movements and Uterine contractions using MEMS Acoustic Sensor” in 7th International Conference on Information Technology, New Generations held at Las Vegas, Nevada, USA from April 12-14, 2010.

Roop Pahuja

- Attended and presented a paper entitled “Design and Implementation of VI Tool for WSN Applications” in International Conference on World Congress on Engineering & Computer Science-2010 held at San Francisco, USA from October 20-22, 2010.

Sheela Tiwari

- Attended a short-term course on “Intelligent System Applications to the Smart Electric Grid Solutions held at Indian Institute of Technology, Kanpur from November 15-19, 2010.

Rajesh Singla

- Attended and presented a paper entitled, “ EEG Eye Blink Classification using Neural Network” in International Conference World Congress in Engineering 2010 held at London, UK from June 06, 2010 to July 02, 2010.
- Attended and presented a paper entitled, “Virtual Keyboard BCI using eye blinks in EEG” 6th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications WiMob 2010 held at Toronto, Canada, from October 11-13, 2010.

Kuldeep Singh Nagla

- Attended and presented a paper entitled, “Object Identification in Dynamic Environment using Sensor Fusion in”, in 39th IEEE International Workshop on Applied Imaging Pattern Recognition held at Washington DC, USA from October 10-15, 2010.

10. **Short term courses / training programmes / seminars / conferences / workshops / symposia organized**

- International Conference on “Biomedical Engineering & Assistive Technologies during Dec. 17-19, 2010.
- AICTE/MHRD Summer School on “Instrumentation and Signal Processing” during 21-25 June 2010 at NIT Srinagar.

11. **Patents secured / applied**

N.A. for the period under report

12. **Expert talks organized / delivered (name of the expert, topic and date)**

Expert Talks Delivered

N.A. for the period under report

13. **Consultancy services completed / on going**

The following activities have been carried out in collaboration with industries and institutions:

Sr No	Industries / Institutions	Nature of Activity
1	IIT Roorkee	Performance testing and evaluation of Small hydro Plants (MoU Signed) on Jan 30, 2010
2	IIT Roorkee, University of Glasgow and S.G.G.S. Institute of Engg. & Technology, Nanded, Maharashtra	Collaborative ECG data collection for standard database on Indian population (MoU Signed) on 20.02.2010
3	Ministry of Railways	Installation of robot for railway at northern Railways (Ambala Cantt railway station) for cleaning the tracks and external parts of the train (in process)
4	IIT Bombay	Agreement to Start Pilot Project on Robotics (e-Yantra), Nov. 2009
5	Agreement with Corporate	20 No. of Corporates signed an advance agreement to purchase the patents from NITJ (December-2009)

14. **Students Activities**

- (a) **SPICE:** Society for promotion of Instrumentation and Control Engineering was set up in December 1994 for the students & the faculty with an aim to offer a forum for exchange of thoughts in emerging areas related to Instrumentation & Control Engineering and is working since then in this direction. Various activities such as paper presentation, quizzes, guest lectures, mock interview etc. are organized from time to time under the aegis of the Society.
- (b) **ISTE Student Chapter:** An ISTE Student Chapter has been established in the institute. The students of IC Department contribute significantly to various activities of the Chapter.
- (c) The Society of Progressive Instrumentation and Control Engineers (SPICE) organized a get-together function to bid fare well to final year students on May 3, 2011.

15. **Membership of Professional Bodies**

The following faculty members of IC Department are members of professional bodies, the details of which are given below:

S No	Name	Name of Professional Body	Membership No.
1.	Dr A K Jain	ISTE	LM 8852
2.	Mr Narinder Singh	IE, IETE	107815/6, 102863
3.	Dr Dilbag Singh	a. ISTE b. ISI (Bangalore) c. IEEE-EMBS d. BMESOI e. Fellow IE(I)	ISTE LM 22453 LM833
4.	Mr S K Pahuja	ISTE	LM 22452
5.	Mrs Sheela Tiwari	ISTE	LM 26873
6.	Mr K S Nagla	a. Student member of IEEE b. Member of RAS (Robotics & Automation Society) c. Life Member of India Innovator Association	No. 80428592 - -

16. **Ph.D Programmes – Existing and Proposed**

- Biomedical Instrumentation and Signal Processing
- Power System Control, Operation and Optimization
- Wireless Networks including sensor networks

17. **Proposed Plan for Research**

In addition to the above existing programmes, the department is planning to introduce the Ph.D programme in the following areas:

- i) Biomedical Signal Processing and Applications
- ii) Image processing and related areas
- iii) Sensor fusion

18. **Industry-Institute Collaboration**

Sr No	Industries / Institutions	Nature of Activity
1	IIT Roorkee	Performance testing and evaluation of Small hydro Plants (MoU Signed) on Jan 30, 2010
2	IIT Roorkee, University of Glasgow and S.G.G.S. Institute of Engg. & Technology, Nanded, Maharashtra	Collaborative ECG data collection for standard database on Indian population (MoU Signed) on 20.02.2010
3	Ministry of Railways	Installation of robot for railway at northern Railways (Ambala Cantt railway station) for cleaning the tracks and external parts of the train (in process)
4	IIT Bombay	Agreement to Start Pilot Project on Robotics (e-Yantra), Nov. 2009
5	Agreement with Corporate	20 No. of Corporates signed an advance agreement to purchase the patents from NITJ (December-2009)

19. **Innovation and technology transfer**

Department is planning to tie up with other institutes and renowned industries under TIFAC for new innovative ideas and technology transfer.

Department of Mathematics

Programme offered in Department : M.Sc & Ph.D in Mathematics

Research Publications

1. S. Kumar, S.Rawat, S. Kapoor, Temperature variation in heated tube filled with molten polymer using FEM, 2nd International Conference on Production and Industrial Engineering 2010.
2. S. Dhawan, S. Kumar, Petrov-Galerkin Linear B-spline finite element method for Burgur's , NITJ/BEATS-2010/322 (2010)
3. S. Dhawan & S. Kumar, Solution of advection diffusion equation based on cubic B- spline finite element method MMCS 2011 (March 25-27, 2011) IT BHU (Indian) pp133-137.
4. Jagjit Singh Matharu and Jaspal Singh Aujla, "Some inequalities for operator means and Hadamard product", Mathematical Inequalities and Applications, Vol. 13, 2010 pp 643-654.

5. Jagjit Singh Matharu and Jaspal Singh Aujla, "Some majorization inequalities for convex functions of several variables", Accepted for publication in Mathematical Inequalities and Application.
6. Rupinderjit Kaur, Mandeep Singh and Jaspal Singh Aujla Generalized matrix version of reverse Holder inequality, Linear Algebra and its Applications Vol. 434 year 2011 pp 636-640. Jaspal Singh
7. Jagjit Singh Matharu, MS Moslehian and Jaspal Singh Aujla, Eigenvalue Extensions of Bohr's inequality Linear Algebra and its Applications Vol.435 Year 2011, pp 270-276.
8. D.Kaur, J N Sharma Rayleigh waves in rotating thermoelastic solids with voids, International Journal of Applied Mathematics and Mechanics, pp 43-61, Year 2010.
9. Rajneesh Kumar, Mrs. Geeta Pratap "Propagation of Waves in Micropolar Thermoelastic cubic crystals", Applied Mathematics & Information Science 4(1) (2010),107-123.
10. Rajneesh Kumar, Mrs. Geeta Pratap "Wave Propagation in Circumferential direction in Micropolar Generalised Thermoelastic Cylindrical curve plate" Int.J. Appl. Math and Mech. 6(2) 54-66 (2010).
11. R.Kumar, G. Partap Circumferential waves in micropolar thermoelastic cylindrical curved plate, Mechanics of Advanced Materials and Structures Vol. 17 pp 68-73, Year 2010.
12. R.Kumar, G.Partap, Elastodynamic Behavior of Axisymmetric Vibrations in Micropolar Thermoelastic Cubic, Mechanics of Advanced Materials and Structures Vol. 17 01-09 Year 2010.
13. R.Kumar, G. Partap, Free Vibration Analysis of Waves in A Microstretch Viscoelastic Layer, Thai Journal of Mathematics Vol. 8 pp 71-102 Year 2010.
14. R.Kumar, G. Partap, Analysis o wave motion in a thermomicrostretch viscoelastic plate, Buletinul Institutului Poliehnice din Iasi Vol.2 pp 39-60 Year 2010.
15. R.R.Sinha and Vinod Kumar, Research paper entitled "On Classes of Estimators for Population Mean Using Auxiliary Character in Presence of Non-Response", presented National Conference on Statistical Inference, Sampling Techniques and Related Areas under DRS-I (SAP) held at Department of Statistics and Operations Research, Aligarh Muslim University, Aligarh during March 28-29, 2011.
16. R.R.Sinha and Vinod Kumar, Research paper entitled "Generalized Estimators for Population Mean with Sub Sampling the Non Respondents", presented National Conference on Statistical Inference, Sampling Techniques and Related Areas under DRS-I (SAP) held at Department of Statistics and Operations Research, Aligarh Muslim University, Aligarh during March 28-29, 2011.
17. R.R.Sinha, Participated in Three Days *Workshop on Learning Effective Document Writing Using LaTeX* held at DAV Institute of Engineering and Technology, Jalandhar during April 8-10, 2010.

Department of Mechanical Engineering

1. Academic Programmes

- e) B Tech in Mechanical Engineering
- f) M Tech in Mechanical Engineering
- g) Ph.D programme in Mechanical Engineering

2. Infrastructure Development:

- (i) Construction work of department block 2nd floor is nearing completion and new space is being added for Laboratories, Offices etc. Plan for phase-2 is ready with estate office (for horizontal and vertical expansion).

(ii) **Lab Equipment/Instruments/Software Procured**

Sr. No.	Item
1.	Indoor Air quality measurement unit along with probes to measure CO ₂ , air velocity, CO, Air water temperature
2.	Single Cylinder Computerized Engine Test Bed
3.	CES Edupack – 10 user License
4.	CNC Vertical Milling Center
5.	Model Exciter Amplifier & Signal Generator
6.	DC and AC Analogue and Digital Modular servo system with upgrade for MATLAB
7.	Symbols- Shakti- 10 user License
8.	Automation Studio- 6 User License
9.	ALGOR- Multi physics- 10 Users License
10.	Ansys- FLUENT- 20 User License

3. Research Publications:**(i) International /National Journals:**

- **Subhash Chander** and Anjan Ray, “Experimental and Numerical Study on the Occurrence of Off-Stagnation Peak in Heat Flux for Laminar Methane/Air Flame Impinging on a Flat Surface” International Journal of Heat and Mass Transfer, Volume 54, Issues 5-6, February 2011, Pages 1179-1186.
- **Pramod Kumar, Rakesh Chandra** and S P Singh “ Interphase effect on Fiber Reinforced Polymer Composites” Composite Interfaces 17(2010)15-35
- Sukhmeet Singh, **Subhash Chander**, J.S. Saini, “Heat Transfer and Friction Factor of Discrete V-Down Rib Roughened Solar Air Heater Ducts”, Journal of Renewable and Sustainable Energy, Vol. 3, 013108, 2011.
- Sukhmeet Singh, **Subhash Chander**, J.S. Saini, “Thermal and Effective Efficiency Based Analysis of Discrete V-Down Rib Roughened Solar Air Heaters”, Journal of Renewable and Sustainable Energy, Accepted for Publication on March 10, 2011
- **S K Tiwari, Rakesh Chandra**, “Prediction of dynamic mechanical properties of fiber reinforced composites- An ANN approach, International Journal of Materials Engineering Innovation, Accepted for publication.

(ii) International/National Conferences:

- **Rajeev Kukreja** , Prof Sanjeev Jain, Prof R S Agarwal, “Experimental investigations on condensation heat transfer and pressure drop of Pure and mixture refrigerants in horizontal tubes with micro fins ” in proceedings of 16th ISME conference, 2010 at IIT, Delhi, Dec.2-4, 2010.
- **Subhash Chander**, Sukhmeet Singh ,J. S. Saini , “ Thermo-Hydraulics of Solar Air Heater Ducts with Discrete V-Down Rib Roughness” Proceedings of International conference on Renewable Energy to be held at University of Jaipur, Jaipur from January17-22, 2011.
- **Subhash Chander**, Sukhmeet Singh, J. S. Saini,” Heat Transfer and Friction Characteristics of Solar Air Heater Ducts Having Discrete V-Down Ribs on Absorber plate” , Proceedings of International Conference on Renewable Energy to be held at University of Jaipur, Jaipur from January 17-22, 2011.
- **Subhash Chander**, Sukhmeet Singh, J. S. Saini,” Thermo- Hydraulics performance of Discrete V-Down Rib Roughened Solar Air Heater Duct” In the Proceedings of international Congress on Renewable Energy 2010 held at Chandigarh from December 1-3, 2010 pp.140-148.
- **Raman Bedi**, Simrandeep Kaur Brar, “Damping Studies on Polyester Polymer Concrete in Proceedings of VETOMAC-VI ”, IIT Delhi, 13-15 December, 2010.
- **Raman Bedi**, Pawan Kumar Verma, D. K. Shukla, “ Studies on Mechanical Behavior of Epoxy Concrete In Proceedings of 16th ISME Conference ”, IIT Delhi, 02-05 December, 2010.

4. Short term Courses/Training Programmes/Conferences Attended by Faculty:

- **Dr. Parmod Kumar, Associate Professor** attended training programme on Balancing & Alignment held at RMI, Pune from June 01-03,2010.
- **Mr. S. K.Tiwari, Assistant Professor** attended training programme on Balancing & Alignment held at RMI, Pune from June 01-03,2010.
- **Mr. Ajay Trehan, Assistant Professor** attended training programme on Balancing & Alignment held at RMI, Pune from June 01-03, 2010.
- **Mr Rajeev Kukreja, Associate professor** attended short term course titled “ Fundamentals of Microscale Heat Transfer : Boiling condensation, single phase and two phase flow to be held at Laussane, Switzerland from June 07- 11, 2010.
- **Mr. Raman Bedi, Assistant Professor** attended Summer School on ‘Advanced Characterization Techniques for materials” at EPFL, Lausanne, Switzerland from August 6-9, 2010.
- **Mr. Raman Bedi, Assistant Professor** attended VETOMAC-VI, IIT Delhi From 13-15 December 2010.

4. Conferences/Seminars/Winter/Summer Schools organized:

- Department of Mechanical Engineering organised an MHRD Sponsored one week Winter School on “ **Welding: Roadmap to Excellence**” from Dec 27-31, 2010.

5. Invited Lectures Delivered by Department Faculty:

- **Prof. Joseph Anand Vaz**, Department of ME had been invited to LAIL, Ecole Centrale de Lille, France for one month in June-July 2010 as an invited Professor to collaborate on Bond Graph based research and to deliver some lectures.
- **Prof. Joseph Anand Vaz**, Deptt. of ME had been invited to SLIET Longowal to deliver invited lectures during their National Conference on Precision Manufacturing NCPM 2010, on March 26-27, 2010.

6. Invited Lectures Organised in the Department:

- **Professor Genevieve Dauphin-Tanguy**, Professor at the **Ecole Central de Lille** and Head of the research group on ‘*Bond Graph modeling*’ in the *Laboratoire d’Automatique Genie Informatique et Signal* (LAGIS – associated with the CNRS, the French National Center for Scientific Research) delivered lectures in the *Invited Lectures Series* of the Institute during December 6-7, 2010.

7. Students Activities:

- SAE Students Chapter has been established in the Department in August 2010. The objectives of the Students Chapter are:
 - i) To help student members to exchange knowledge and ideas in the associated fields of engineering with a view to promotion of their technical activities and to bring them up to date with latest trends in their respective fields.
 - ii) To assist student members in developing their facilities and there by enable them to play their full part in contributing to the engineering community and society as also to raise their standing and visibility in their future professional careers.
- ASME Students’ Chapter has been established in January 2011.
- Mr. Kartik Datwani 3rd year student of Mech Engg. Deptt. had been offered Practical Training in Germany under the International Association for the exchange of students for technical experience (IAESTE, DAAD) at TU Dresden Germany from 1/6/2010 to 26/7/2010.

Department of Physics

1. a) **Undergraduate:** The Department offers the following courses to the students of various B.Tech programmes.

I/II Semester (Common to all branches)

Physics PH-101 (Theory)
Physics PH-103 (Practical)

III Semester (IPE)

Material Science & Technology PH-201 (Theory)

III Semester (EC)

Material Science (Nano Science) PH-206 (Theory)

IV Semester (EC)

Electromagnetic Field Theory PH-203 (Theory)

IV Semester (CB)

Material Science & Engineering PH-204 (Theory)
Material Science & Engineering PH-214 (Practical)

V Semester (IC)

Material Science (Nano Science) PH-206 (Theory)

- b) **Postgraduate:** The Department is running a M.Sc. Physics Programme since 2006 and offers the following courses.

I Semester

PH-511 Classical Mechanics
PH-512 Mathematical Physics
PH-513 Electronics
PH-514 Computational Techniques
PH-541 Electronics Lab.
PH-542 Computer Lab.

II Semester

PH-515 Quantum Mechanics -I
PH-516 Solid State Physics - I
PH-517 Atomic and Molecular Spectroscopy
PH-518 Electrodynamics
PH-543 Solid State Physics Lab.
PH-544 Spectroscopy Lab.

III Semester

PH-519 Quantum Mechanics -II
PH-520 Solid State Physics - II
PH-521 Plasma Physics
PH-522 Nuclear Physics
PH-545 Nuclear Physics Lab.
PH-546 Plasma Lab.

IV Semester

PH-523 Particle Physics
PH-524 Statistical Physics

PH-Elective- I
 PH-Open Elective-
 PH-561 Project

b) Ph.D Programme:

Eleven regular & one part time research scholars are working under the supervision of faculty members of the Department for pursuing their Ph.D.

c) R & D ACTIVITIES

i) Projects Completed

S.No.	Title of the Project	Funding Agency
1.	Electrical Properties of Polymers	Ministry of Human Resource Development, Govt. of India.
2.	Modernization of Removal of Obsolescence of Applied Physics Lab.	Ministry of Human Resource Development, Govt. of India.
3.	Modernization of Removal of Obsolescence of Fiber Optic and Laser Lab	All India Council of Technical Education, New Delhi.

ii) Projects on going :

S.No.	Title of the Project	Funding Agency	Funding
1.	Hyperon Semi-leptonic Weak Decays in Chiral Constituent Quark Model PI: Dr Harleen Dahiya	Department of Science and Technology, New Delhi	Rs. 11 lac.
2.	Electromagnetic form factors at low Q ² PI: Dr Harleen Dahiya	Department of Atomic Energy, BRNS, BARC, Mumbai	Rs. 12 lac.
3.	Measurement of Radon, Thoron and their Progeny Distribution in the Different types of houses in Mansa, Bhatinda, Faridkot and Muktsar districts of Punjab PI: Dr Rohit Mehra	Department of Atomic Energy, BRNS, BARC, Mumbai	Rs. 26 lac.

iii) Projects Submitted

S.No.	Title of the Project	Funding Agency
1.	Electro-optic and dielectric properties in nanomaterials dispersed ferroelectric liquid crystals PI: Dr Parveen Malik	Department of Science & Technology, New Delhi

2. Research Publications

a) International Journals

1. **Arvinder Singh**, Munish Aggarwal, Tarsem Singh Gill, "Dynamics of Filament Formation in Laser Produced Collisional Magnetoplasma(2010). *Contrib. Plasma Physics* 50, No. 2, 156-165. Wiley-VCH Verlag.
2. Keshav Walia and **Arvinder Singh**, "Comparison of two theories for the relativistic self-focusing of laser beams in plasma(2010). *Contrib. Plasma Physics* , Vol. 51, No. 4, 375 – 381, Wiley-VCH Verlag.
(2011) /DOI: 10.1002/ctpp.201010102
3. **Arvinder Singh** and Navpreet Singh, "Optical Guiding of Laser Beam in an Axially Nonuniform Plasma Channel(2010). *Laser and Particle Beams*. 28, 263-268. Cambridge University Press. USA.
DOI:10.1017/S0263034610000133
4. **Arvinder Singh** and Keshav Walia, "Relativistic self-focusing and self-channeling of Gaussian laser beam in plasma(2010). *Applied Physics B*, Springer, Vol. 101, 617-622.
DOI: 10.1007/s00340-010-4230-4
5. **Arvinder Singh** and Keshav Walia, "Enhanced Raman Scattering of Elliptical laser beam in a Collisional Plasma(2011). *Contrib. Plasma Physics*_Wiley-VCH Verlag.
No. , 1 – 11 (2011) / DOI 10.1002/ctpp.201000042
6. **Arvinder Singh** and Keshav Walia, "Enhanced Raman Scattering of Elliptical laser beam in a Collisionless Plasma(2011). *Journal of Fusion Energy* , Springer.
DOI 10.1007/s10894-011-9413-4
7. **Arvinder Singh** and Navpreet Singh, "Relativistic guidance of an intense laser beam through an axially non-uniform plasma channel(2011), *Laser and Particle Beams*, Cambridge University Press. USA
doi:10.1017/S0263034611000292
8. **Arvinder Singh** and Navpreet Singh, "Guidance of a Laser Beam Through an Axially Non-uniform Plasma Channel in the weakly relativistic limit(2011), *Journal of Fusion Energy* , Springer
DOI: 10.1007/s10894-011-9425-0
9. **Arvinder Singh** and Keshav Walia, "Self-focusing of Gaussian laser beam through collisionless plasmas and its effect on Second Harmonic generation(2011), *Journal of Fusion Energy* , Springer
DOI: 10.1007/s10894-011-9426-z
10. **Arvinder Singh** and Navpreet Singh, "Guiding of a Laser Beam in Collisionless Magnetoplasma Channel(2011), *Journal of Optical Society of America B* , Vol.28, No.8, 1844-1850.

b) National Journals

1. **R Mehra**, K Badhan, R.G. Sonkawade, S Kansal, S Singh, "Analysis of terrestrial natural radionuclides in soil samples and assessment of average effective dose", *Indian Journal of Pure & Physics*, Vol./Issue-48/ November pp 805-808, 2010.
2. Komal Badhan , **Rohit Mehra** , R.G. Sonkawade, "Measurement of radon concentration in ground water using RAD7 and assessment of average annual dose in the environs of NITJ, Punjab, India", *Indian Journal of Pure & Physics*, Vol./Issue-48/ July pp: 508-511, 2010.

3. **Rohit Mehra** , R.G. Sonkawade, "Use of DSAABC Method for Monitoring Radon and Thoron Progeny in Outdoor Environs of Bathinda, India", Indian Journal of Pure & Physics, Accepted 2010.
4. Sandeep Kansal , **Rohit Mehra** , N.P. Singh , Komal Badhan, R.G. Sonkawade, "Analysis and assessment of radiological risk in soil samples of Hisar district of Haryana, India", Indian Journal of Pure & Physics, Vol./Issue-48/ July pp: 512-515, 2010.
5. **Rohit Mehra**, Komal Badhan, Pankaj Bala, "Assessment of radium and radon exhalation rate in soil and building material samples using LR-115 plastic track detectors", Journal of Environment Science and Engineering, Accepted, 2011

c) International Conferences

1. **Arvinder Singh** and Navpreet Singh, "Effect Of Ponderomotive And Relativistic Nonlinearity On The Optical Guiding Of Ultra-Intense Laser Pulse In An Axially Nonuniform plasma Channel(2010) presented in a "4th International Conference on Frontiers of Nonlinear Physics" Russia, July 13 – 20, 2010.
2. Navpreet Singh and **Arvinder Singh**, "Laser Guiding Through an Axially Nonuniform Collisional Plasma Channel presented in "4th International Workshop and Summer School on Plasma Physics" held in Kiten, Bulgaria 5- 10 July, 2010
3. Keshav Walia and **Arvinder Singh**, "Stimulated Raman Scattering of Elliptical Laser beam in a Collisional Plasma Presented in "International Advanced Workshop on Frontiers of Plasma Physics" held at International Centre for Theoretical Physics (ICTP) Trieste, Italy 5 -16 July 2010.
4. Munish Aggarwal, **Arvinder Singh**, Tarsem Singh Gill, " Guiding of intense laser beam under the combined effect of ponderomotive and Relativistic nonlinearity Presented in "37th EPS Conference on plasma physics" at Dublin City University, Dublin, Ireland 21 - 25 June 2010.
5. Navpreet Singh and **Arvinder Singh**, "Guiding of laser Beam in Collisional Magnetoplasma Channel presented in "International Workshop on Cold Rydberg Gases and Ultracold plasmas" at Max-Planck's institute for the Physics of Complex Systems, Dresden, Germany 6-17 September, 2010.
6. Keshav Walia and **Arvinder Singh** , "Self-focusing of Gaussian laser beam in Collisionless Plasma and its effect on Plasma Wave and Second harmonic generation Presented in "International Workshop on Kinetic Processes in Plasmas: Instabilities, Turbulence and Transport" at Ruhr-Universitat Bochum, Germany 8-11 November, 2010
7. Keshav Walia and **Arvinder Singh**, "Stimulated Brillouin Scattering of Gaussian laser beam in Collisionless Plasma Presented in "International Workshop on Kinetic Processes in Plasmas: Instabilities, Turbulence and Transport" at Ruhr-Universitat Bochum, Germany 8-11 November, 2010
8. **Arvinder Singh** and Navpreet Singh, "Guiding of a laser beam in collisionless magnetoplasma channel presented in "20th International Toki Conference (ITC-20) on the next Twenty Years in Plasma and Fusion Science" at Toki city, Gifu, Japan 7-10 December 2010.
9. Harjit Pal Singh, **Sarabjeet Singh**, R.K.Sarin, Jasvir Singh, "Analysis of FIR Interpolation Filter for VoIP in Noisy Environment", In Proceedings of IEEE Second International Conference on Computational Intelligence, Communication Systems and Networks: CICSYN2010, 28-30 July 2010, Liverpool, United Kingdom.
10. **Sarabjeet Singh**, Harjit Pal Singh, Jasvir Singh, "Spectral Analysis of Speech Quality in VoIP for G.729A and AMR-WB Speech Coders", In Proceedings of IEEE Second International Conference on Computational Intelligence, Communication Systems and Networks: CICSYN2010, 28-30 July 2010, Liverpool, United Kingdom.

d) National Conferences

1. Navpreet Singh and **Arvinder Singh**, “Effect of Magnetic Field on the Guided Propagation of Laser Beam in Collisional Magnetoplasma Channel” Presented in “25th National Symposium on Plasma Science and Technology”. Institute of Advanced Study in Science and Technology, Guwahati (Assam), Dec. 8 -11, 2010.
2. Neha Sharma, **H.M. Mittal** and A.K. Jain, “Features of SD bands in odd – odd nuclei of A=190 mass region” - Neha Sharna, Proc. Symp. on Nucl. Phys. (India) **55** (2010) 18
3. **H.M. Mittal** and Vidya Devi, “Unified description of the low lying states of the ground bands of Xe-Gd nuclei” - Proc. Symp. on Nucl. Phys. (India) **55** (2010) 100
4. **H.M. Mittal** and Vidya Devi, “The Study of nuclear structure of A = 120-200 mass region nuclei in term of symmetry” - Proc. Symp. on Nucl. Phys. (India) **55** (2010) 102
5. **H.M. Mittal** and Vidya Devi, “The study of $^{126-136}\text{Ba}$ isotopes in the frame work of interacting boson model” - Proc. Symp. on Nucl. Phys. (India) **55** (2010) 104

3) Conference/Workshops/ Short term courses attended by the Faculty

1. **Arvinder Singh** and Navpreet Singh, “Effect Of Ponderomotive And Relativistic Nonlinearity On The Optical Guiding Of Ultra-Intense Laser Pulse In An Axially Nonuniform plasma Channel(2010) presented in a “4th International Conference on Frontiers of Nonlinear Physics” Russia, July 13 – 20, 2010.
2. **Arvinder Singh** and Navpreet Singh, “Guiding of a laser beam in collisionless magnetoplasma channel presented in “20th International Toki Conference (ITC-20) on the next Twenty Years in Plasma and Fusion Science” at Toki city, Gifu, Japan 7-10 December 2010.
3. Dr H M Mittal attended International Nuclear Physics Conference (INPC2010) at University of British Columbia, Vancouver, Canada from July 4-9, 2010.
4. Dr H M Mittal attended International Symposium on Nuclear Symmetry Energy, RIKEN, Wako, Japan from July 26-28, 2010.
5. Dr H M Mittal attended DAE Symposium on Nuclear Physics at Birla Institute of Technology and Science, Pilani, Rajasthan during Dec. 20-24, 2010
6. Dr H M Mittal attended AICTE/MHRD sponsored Summer School on “Enhancing Competitiveness thro Change Management” at Dr. B.R. Ambedkar National Institute of Technology Jalandhar from June 7-11, 2010.
7. Dr H M Mittal attended AICTE/MHRD sponsored Summer School on “Industrial Engineering in Current Business Paradigm- Issues and Challenges” at Dr. B.R. Ambedkar National Institute of Technology Jalandhar from July 12-16, 2010.
8. Dr H M Mittal attended Indian Oil/LKMT/PETROFED sponsored Industry – Academia Workshop on “Refining & Petrochemicals” at Dr. B.R. Ambedkar National Institute of Technology Jalandhar from August 25-28, 2010.
9. Dr H M Mittal attended MHRD sponsored short term course on– “Nuclear radiations and their applications” at National Institute of Technical Teacher’s Training and Research, Chandigarh from 20-9-2010 to 24.09.2010.
10. Dr H M Mittal attended AICTE sponsored Short Term Course on “Environment in Process Industries” at Dr. B.R. Ambedkar National Institute of Technology Jalandhar from June 05-09, 2011.

4) Students Visit

1. Vidya Devi attended and presented a research paper entitled "Study of symmetry in F-spin multiplet for A=120-200 mass region nuclei" in 3rd International Conference on Current Problems in Nuclear Physics and Atomic Energy held at Kyiv, Ukraine from June 7-12, 2010.
2. Vidya Devi attended 17 Euroschool on exotic beam at Santiago deCompostela, Spain from Sept. 4-10, 2010.
3. Vidya Devi attended DAE Symposium on Nuclear Physics at Birla Institute of Technology and Science, Pilani, Rajasthan during Dec. 20-24, 2010
4. Komal Badhan presented a research paper entitled, "Assessment of Lifetime Fatality Risk by measuring Annual Radon Exposure in the Dwellings of District Ludhiana, Punjab, India", High Levels of Natural Radiations and Radon Areas" from November 24-26, 2010 at BARC, Mumbai, India. 2010.
5. Pankaj Bala presented a research paper entitled, "Study of Indoor Radon/Thoron Concentrations in Air and Radon Levels in Drinking Water Using Active Radon Monitor RAD7", High Levels of Natural Radiations and Radon Areas" from November 24-26, 2010 at BARC, Mumbai, India.
6. Keshav Walia attended and presented a research paper entitled "Stimulated Raman Scattering of Elliptical Laser beam in a Collisional Plasma" in "International Advanced Workshop on Frontiers of Plasma Physics" held at International Centre for Theoretical Physics (ICTP) Trieste, Italy from 5 -16 July 2010.
7. Keshav Walia, attended and presented a research paper entitled, "Self-focusing of Gaussian laser beam in Collisionless Plasma and its effect on Plasma Wave and Second harmonic generation' in International Workshop on Kinetic Processes in Plasmas: Instabilities, Turbulence and Transport" at Ruhr-Universitat Bochum, Germany 8-11 November, 2010
8. Munish Aggarwal attended and presented a research paper entitled, " Guiding of intense laser beam under the combined effect of ponderomotive and Relativistic nonlinearity" in "37th EPS Conference on plasma physics" at Dublin City University, Dublin, Ireland from 21 - 25 June 2010.
9. Navpreet Singh attended and presented a research paper entitled, "Guiding of laser Beam in Collisional Magnetoplasma Channel" in "International Workshop on Cold Rydberg Gases and Ultracold plasmas" at Max-Planck's institute for the Physics of Complex Systems, Dresden, Germany from 6-17 September, 2010.
10. Navpreet Singh attended and presented a research paper entitled, "Laser 'Guiding Through an Axially Nonuniform Collisional Plasma Channel' in "4th International Workshop and Summer School on Plasma Physics" held in Kiten, Bulgaria 5- 10 July, 2010

DEPARTMENT OF TEXTILE TECHNOLOGY**1. Academic Programmes run by the department :-**

2. B Tech in Textile Technology
3. M Tech In Textile Engineering & Management (Full time)
4. M Tech in Textile Technology (Part time)
5. Ph D (Full- Time)
6. Ph D (Part- Time)

Students Registered for Higher Education

Category / courses	Year	Numner of students enrolled
M Tech	2010	Four
Ph D	2010	Nil

2. **Students Completed Higher Education:** Nil

3. **Books:** Nil

Book Chapters:

- Chakraborty J N, 'Chapter 7: An overview of dye fastness testing, Handbook of Textile and Industrial Dyeing: Principles, Processes and Types of dyes, Volume 1 Part 1: General aspects of dyeing, Editor: Dr Matthew Clark, Woodhead Publishing Limited, UK
- Chakraborty J N, 'Chapter 14: Sulphur dyes', Handbook of Textile and Industrial Dyeing: Principles, Processes and Types of dyes, Volume 1: Part 2: Dye types and processes, Editor: Dr. Matthew Clark, Woodhead Publishing Limited, UK
- Chakraborty J N 'Chapter-13: Metal complex dyes', Handbook of Textile and Industrial Dyeing: Principles, Processes and Types of dyes, Volume 1: Part 2: Dye types and processes, Editor: Dr. Matthew Clark, Woodhead Publishing Limited, UK
- Chakraborty J N 'Chapter 7: Designing through Dyeing and Finishing', Textile design: Principles, Advances and Applications, Editors: Dr Amanda Briggs-Goode and Dr Katherine Townsend, Woodhead Publishing Limited, UK
- Mukhopadhyay, A. and Midha, V.K., (In Press) "Sewn Seam Performance", in Jones, I. and Stylios, G. (Ed.), Joining Textiles: Principles and Applications, Woodhead Publication.

4. Research Publications

International & National Journals and conferences

SR.	NAME	CONFERENCE/JOURNAL	TITLE OF THE PAPER
1.	Midha, V.K., Chattopadhyay, R., Kothari, V.K. and Mukhopadhyay, A.	Textile Research Journal 2010	Effect of Process and Machine Parameters on Changes in Tensile Properties of Threads during High Speed Industrial Sewing.
2.	Midha, V.K., Kothari, V.K., Chattopadhyay, R., and Mukhopadhyay, A.	Journal of Engineered Fibers and Fabrics, 2010.	Effect of Workwear Fabric Characteristics on the Changes in Tensile Properties of Sewing Threads after Sewing.

3.	A. Mukhopadhyay, S. M. Ishtiaque, D. Uttam	Journal of Textile Institute, 2011.	Structural variations in hollow yarn on heat and moisture transport properties of fabrics
4.	S. M. Ishtiaque, A. Mukhopadhyay and A. Kumar	Journal of Textile and Apparel Technology and Management, 2010.	Impact of carding parameters and draw frame speed on migration characteristics of ring spun yarn
5.	Midha, V.K., Kothari, V.K., Chattopadhyay, R. and Mukhopadhyay, A	Fibers and Polymers, 2010.	A Neural Network Model for Prediction of Strength Loss in Threads during High Speed Industrial Sewing.
6.	Midha, V.K., Mukhopadhyay, A. and Ramanpreet Kaur	Research Journal of Textile and Apparel, 2010.	An Approach to Seam Strength Prediction using Residual Thread Strength.
7.	Midha, V.K.	The Journal of the Textile Institute, 2010.	Studies on Stiffness and Abrasion Resistance of Needle punched Nonwoven Blankets.
8.	Midha, V.K.	The Journal of the Textile Institute, 2010.	Ranking fibre and process parameters affecting thermal resistance of needle punched blankets using neural network

5. International conference attended by Faculty

1. A Mukhopadhyay, Impact of operating parameters on particulate emission and related characteristics during pulse-jet filtration process, Textile Institute World Conference at Manchester, UK, November 2-4, 2010.
2. A Mukhopadhyay, An L9 orthogonal design methodology to study the impact of operating parameters on pulse-jet filtration process, FILTECH 2011 at Wiesbaden Germany, March 22-24, 2011.
Session chair for two sessions in International Conference FILTECH 2011 at Wiesbaden Germany, March 22-24, 2011.
3. Material for high temperature gas filtration, A.K. Choudhary, A. Mukhopadhyay, FILTECH 2011 at Wiesbaden Germany, March 22-24, 2011.
4. Comparison of the various filter media used in bag filters, M. Sikka, Proceedings L-Sessions, International Conference & Exhibition for Filtration and Separation Technology, March 22-24, 2011, Rhein-Main-Hallen, Wiesbaden. Germany
5. M.D.Roy, Textile Industry : Beneficiary of Environmental Management System, 2011 2nd International Conference on Environmental Science and Technology ICEST 2011, Singapore, February 26-28, 2011.

6. National Seminar

Seminar organized by Faculty

Prof. Bohuslav, NECKÁŘ, Department of Textile Technology, Technical University of Liberec, Czech Republic,

Ongoing Projects

Dr. A Ghosh	FIST, DST	Rs. 59 lacs
A Mukherjee	Designing Nonwoven fabric for pulse jet filtration	Rs.15 Lac
A Chatterjee	Optimisation of production process of PP/Carbon nanofibre composite filament	Rs. 22 Lac
V Midha	Development of Needle Punched Nonwoven Blanket Fabric	Rs. 15 Lac

Details of faculty who have enrolled for higher qualifications

1. Mr. M.D.Roy for part time PhD at NIT Jalandhar
2. Ms. Monica Sikka for part time Ph D at NIT Jalandhar
3. Mr. A K Chaudhary for part time PhD at NIT Jalandhar.

New Equipment / software purchased

- Aimil UTM
- Pore Size Analyzer
- Polarising Microscope

DISPENSARY

A. Facilities provided by dispensary:-

1. Oxygen cylinder
2. Nebulizer
3. Autoclave
4. Pathological lab
5. Pharmacy
6. Ambulance facility round the clock.
7. Providing medical covers in extra curricular activities in the institute.
8. Participating in all the national health programmes.
9. Immunization facility.

B. Total OPD in the dispensary during the financial year i.e 25th may 2010 to 31st March 2011 was 12964 (Twelve thousand nine hundred and sixty four) OPD cases W.e.f 1st april 2010 to 24th May 2010 could not be added because the relevant OPD register is in the custody of Admin auth.

C. All The reimbursement of medical bills are processed through the dispensary .Around 967 bills are processed for reimbursement .

D. Two full time regular Resident medical officers and one visiting medical officer are giving the consultation & emergency services in the dispensary .

E. Pharmacy of the dispensary has most of the routine medicines for convenience of the patients.

F. Pathological lab is functional and is capable for doing the routine investigations like HB, TLC, DLC, ESR, FBS, WIDAL, MP AND URINE R/E around 623 patients are advised for routine investigations who took the benefit of the pathological laboratory.

G. The facility of Councillor cum Psychologist was also started in the dispensary from march 2011. Around 15 patients were counselled in the month of march 2011.

H. The dispensary has two Resident Medical officers (One male & one female) one lab tech and one dresser on regular basis and four paramedic (one Pharmacist ,One Medical assistant ,and two nurses)and one psychologist and one visiting female medical officer on contractual basis .

HRD/HINDI CELL.

1. Rajbhasha Samiti has organized national level cultural programe "Jugalbandi" on the eve of Hindi Diwas (14th Sep. 2010).
2. Rajbhasha Samiti has also published first edition of institute's annual Hindi magazine "Parikrama-2010" on the occasion of "Hindi Diwas" on 14th September 2010.
3. Institute had also arranged Rajbhasha fortnightly programme during 14-28, September, 2010 and various Rajbhasha Hindi activities among the students and staff.
4. All winners have been awarded prizes and certificates by the director of the institute during the "Hindi Pakhwara" organized by the Rajbhasha Samiti.
5. Institute has also purchased various Hindi books related to literature, history by the recommendation of the Hindi cell.
6. Rajbhasha Samiti & Utkansh-11, jointly organized national level "Kavi Samelen" on 05 March, 2011 and encouraged to student and staff for application of Rajbhasha Hindi in official & non official activities.