

Annual Quality Assurance Report (AQAR)

Name of the Institution	:	PEC University of Technology, Sector-12, Chandigarh
Year of Report	:	August 2013- July 2014

An overview of PEC University of Technology

The PEC University of Technology, Chandigarh was orginally established as Mugalpura Engineering College at Lahore (now in Pakistan) on November 9, 1921. The name of the institute was later changed to Maclagan Engineering College and it started functioning under the name on March 19, 1924. In the year 1931, the college got affiliated to Punjab University, Lahore. After partition in 1947, the college was shifted to Roorkee (India) and was renamed as East Punjab College of Engineering. In the year 1950 the word East was dropped and it came to be known by its now popular name – PEC (Punjab Engineering College).

Towards the end of December 1953, the institute shifted to its present campus in Chandigarh to function under Govt. of Punjab. In 1966, with the formation of Union Territory of Chandigarh, the institute came under the control of the Chandigarh Administration.

In October 2003, the Govt. of India notified the Punjab Engineering College as a Deemed to be University. In June, 2009, the institute was accordingly rechristened as PEC University of Technology. The institute is governed by Board of Management and gets a grant – in- aid from the Chandigarh Administration.

The present campus of the institute extends over an area of 146 acres of the land situated close to the Shivalik hills. Besides the academic and residential buildings, the campus also provides essential amenities like shopping centre, community centre, banks, post office, student centre, gymnasium, swimming pool, play fields, faculty guest house and dispensary etc. There are four hostels for boys and two for girls. About 300 houses exist inside the campus for the faculty and supporting staff. In addition, Neelgiri Apartments provide accommodation for research scholars.

University has always endeavored to achieve standards in academics, research and other curricular activities which are par excellence within country and also at the international level. Keeping this in mind, it has entered into a number of collaborations with universities and industries like NJIT- USA, IBM, ALSTOM-INDIA, INTEL, ESIGELEC-FRANCE, UWA-AUSTRALIA etc.

Nine different UG programmes and thirteen PG programmes are offered in various disciplines. Also regular PhD programmes are offered in areas of Basic Science and different disciplines of Engineering.

The students of the institute develop their personalities through participation in various technical, sports, cultural and social activities at national and international level. During the year 2013-14. 100% students were placed in different companies with highest package of 12.71 lacs. The institute was able to undertake a good amount of consultancy and research projects.



In pursuance of National action plan of the NAAC the Internal Quality Assurance (IQAC) Cell has been established in PEC University of Technology, Chandigarh as per the UGC guidelines in August 2010 under the Chairmanship of Director, PEC University of Technology. IQAC has defined the objectives of the institute and worked out an action plan to achieve the same.

Sr.	IQAC Members	Name and Designation
No.		
1	Chairperson (Head of HEI)	Prof. Manoj K. Arora, Director, PEC
		University of Technology
2	Members from the institute	Eight senior teachers of different disciplines
		and one senior administrative official of the
		institute
3	External Experts on Quality	1. Mr. P K Verma, Management Expert
	Management/Industury/Local	2. Dr. Dhirender Tayal, Former President of
	Community	PECOSA
		3. Prof. S C Vaidya, Dean, University Business
		School
4	Coordinator of IQAC and Member	Dr. (Mrs.) Neelu Jain, Associate Professor,
	Secretary	E&EC. Deptt., PEC University of Technology

The constitution of the IQAC is as under :-

Goals and functions of IQAC are as under:-

- 1. To develop a quality system for conscious, consistent and catalytic programmed action to improve the academic and administrative performance of the PEC University of Technology.
- 2. To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.
- 3. To develop a system for conscious and consistent improvement in the performance of the institution.
- 4. To channelize the efforts and measures of the institution towards academic excellence.

As one of the major functions of IQAC, the Annual Quality Assurance Report of the Higher Education Institution has been prepared in the prescribed format based on the quality parameters/assessment criteria developed by the relevant quality assurance body (like NAAC, NBA) for the first time for the academic year starting from August 2013 to July 2014.



Section-A

Plan of action chalked by IQAC in the beginning of the year (August 2013- July 2014) towards quality enhancement is as under:-

- Appropriate action to be taken for engagement of all the scheduled classes as per the academic calendar
- Random monitoring of classes to verify the engagement of classes
- To develop a mechanism for complete transparency of student evaluation
- Declaration of results within a stipulated period of time
- Updation of academic programs
- Complete transparency of student's attendance
- Upgradation of classrooms
- Renovation of faculty rooms
- Uploading of upto date information on PEC web server



Section-B

1. Activities reflecting the goals and objectives of the institution

The goals and objectives of the institution are as under :

- To become a centre of excellence in technical education and research, and to occupy a place amongst the most eminent institutions of the nation
- To build across the institution a culture of excellence in teaching and learning
- To enhance the institution standing as the institution of choice for students across the country and to augment the presence of international students to at least ten percent of the student body
- To cultivate a field in which new ideas, research and scholarship flourish leading to emergence of creators, innovators, leaders, and entrepreneurs
- To design the education through a continuous process so that the students qualifying from the institution have the top rating in placement
- To achieve excellence in application-oriented research in the selected areas of technology so as to contribute towards the development of the region and the nation
- To promote co-curricular and extra-curricular activities for overall personality development of the students
- To develop responsible citizenship amongst students through awareness and acceptance of ethical values
- To build a family of alumni and friends to create a network of allegiance and support for the institution
- To inculcate the fundamentals of work ethics in the students in order to produce morally responsible technocrats
- To increase intellectual, physical, emotional and spiritual strength of the students

Activities reflecting the above mentioned goals and objectives are as under:

The unique features of education system that make the institute a center of excellence in technical education and place amongst the most eminent institutions of the nation are:

• Teaching, learning and evaluation system similar to IITs

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- Wi fi enabled academic area and hostel area; ICT enabled
- Lecture delivery using both blackboards and LCD projection facilities
- Summer courses for slow students
- Complete transparency: all answer scripts are shown to the students
- Rapid evaluation of mid-term and end-term exams: within 96 hours
- Early announcement of results: within 20 days
- Student feedback for all courses and faculty by all students

The institute follows an Academic calendar which is approved by Senate and prepared in advance for one academic year by office of Dean Academic Affairs in consultation with other functionaries.

The Departmental Under-Graduate Committee (DUGC) and Departmental Post-Graduate Committee (DPGC) of each department design the curriculum and syllabi for UG & PG programmes respectively. These are then sent to the Senate Under-Graduate Committee (SUGC) and Senate Post-Graduate Committee (SPGC) respectively.

The SUGC and SPGC forward these with their comments / observation to the Curriculum Design & Monitoring Committee (CDMC) whose final recommendations are then considered by the Senate of the PEC University of Technology. The curriculum is finally implemented after the approval of the Senate.

Learning is made student centric through project based activities and the concept of design points. Also the laboratory experiments are design oriented. Compulsory educational tours, Workshop training are other methods of providing learning experiences. Students have to undergo a compulsory full semester internship in Industry/Institute.

Employability is ensured by introducing six months internship having high level of interactions with the industry, industrial visits and interaction with the industrial experts through extension lectures. More than 60 companies visit for campus placements every year and all eligible students are placed. Any comments the companies give regarding curriculum are given due consideration. The marketing brochures are sent to different companies.

To enhance sponsored research, the institute has introduced an incentive scheme for faculty and also listed annual targets for applying for sponsored projects. Under the incentive scheme, faculty members undertaking sponsored projects are provided financial



benefits for academic activities. Approximately 6 percent of the annual budget is allocated for promotion of research. Each faculty member has been provided with laptops/desktops for the research and educational purposes. They are also provided with In-house funds for the promotion of research activities and the PG students are involved in these activities.

Faculty at PEC has expertise in various research areas of interest to industry and society, and is involved in consultancy through approximately 880 projects worth Rs 2.82 crores during last five years. The DRP & D acts as a liaison between the institute and industry/ Government bodies to undertake projects. The institute has well established rules and guidelines for the consultancy projects. Collaborative projects are undertaken through MoUs with Intel, Alstom, Philips, ABB, IBM, CSIO, MIA and others

For motivation to achieve higher goals the achievements of the faculty are published in a PEC Newsletter and Alumnus Prof Trikha award has been instituted for best research publication to two faculty members every year.

Students are also encouraged to participate in research through sponsored projects and industrial collaborations. The institute provides financial help to students who participate in seminars, conferences and workshops relating to technical fields.

The student Chapters of the Technical Societies namely ISTE, IETE, IEEE, SAE, IIM, Ae.SI, IEE and SME are functional in the institute. Students are encouraged to be members of these and other similar technical societies and to participate in cultural as well as technical activities on the campus through events like PECFEST, TECHFEST etc. For the all round development of the students, the college provides a host of various students activities ranging from personal-hobbies to technical interests. The students are encouraged to become a member of these bodies to help broaden their horizons. Various students clubs are: Art and Photography, Robotics, Music, Dramatics, Speaker's Association and Study Circle (SAASC), Projection-Design, Rotaract and Energy and Envirovision club.

The institute offers counselling services to help the students to work through their problems, to develop self awareness and to over come problems. The services of a professional counselor for personal counselling are available to the students. Scholarships in the form of full free ship on tuition fee are available for specific number of economically weaker section students/women/physically handicapped students.



In order to produce morally responsible technocrats, students are involved in community based projects like inclusive growth and also participate in extension activities of NSS and NCC through a compulsory course in NCC/NSS/Physical Education for first year students. The NSS unit of the institute has a tie up with the Commonwealth Youth Asia Center, Chandigarh under the Commonwealth Youth Credit Initiative (CYCI) and has formed two women self help groups.

With the aim of strengthening its link with the alumni, the institute has set up an Alumni Affairs office. At present PEC is interacting with three Alumni Associations namely PEC Old Boys Association (PECOBA), PEC Old Students Association (PECOSA) and PEC Alumni Society (PALS). Some of the areas where the institute receives regular contributions are: scholarships and awards, lectures, short courses, workshops, career guidance, curriculum development, internships, placements, academic collaborations and MOU's with industry. PECOSA has been instrumental in channelizing the help offered by various alumni in the form of scholarship awards to the tune of Rs 1.00 lac (total) to bright students every year.



2. New Academic Programmes Initiated

The various new P.G. programmes initiated are tabulated as under:-

S.	Department	Title	Intake	Year of
No.	Initiating			Start of Programme
1.	Department of Computer Science and Engineering	Computer Science and Engineering (Information Security) on self-supporting basis	23	2010
2.	Department of Material Science and Metallurgy	Total Quality Engineering and Management (Interdisciplinary programme on self-supporting basis)	21	2011
3.	Department of Production Engineering	Industrial Design (Interdisciplinary programme on self-supporting basis)	23	2011



3. Innovations in Curricular Design and Transaction

New Scheme for under graduate courses was implemented in the year 2010. Differences in the Old Scheme and the New Scheme are tabulated as under:-

Old Scheme BE Implemented in 2010

S.No.	Courses	Course Structure
1	Humanities	3
2	Basic Sciences ((Physics, Chemistry, Math)	6
3	Labs (Non Deptt.)	2
4	Engineering Core & Technical Arts	9
5	Department Core	15
6	Lab (Deptt.)	7
7	Department Electives	3
8	Open Elective	1
9	Capstone Projects	2
10	Workshop Project	1
11	Industry Internship semester	Compulsory

New Scheme BE Implemented in 2014

CREDITS BREAK-UP FOR B. E. PROGRAMME <i>CURRICULAR</i> <i>COMPONENTS</i>	Credits
(a) Institute Core Courses (ICC)	04
a) Humanities and Social Sciences	08+08*
(HSSC)	04+12*
b) Basic Sciences (BSC)	03
c) Engineering Sciences (ESC)	* Department Specific
d) General Science (GSC)	

Total

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39



(b) Department Core Courses (DCC)	60
a) Class Contact Core courses	02
b) Introduction to (Discipline)	04
Engineering	02
c) Engineering Analysis and Design	04
d) Technical Communication	08
e) Minor Project	Non-credit
f) Major Project	20
g) Industrial Tour	
h) Practical Training/ Internship	
Total	100
(c) Humanities, Social Sciences and	03
Management Elective Courses	03
(HSSMEC)	
a) Humanities and Social Sciences	
b) Management Studies	
Total	06
(e) Departmental Elective Courses (DEC)	12
(f) Open Elective (GSEC/HSEC)	04
(g) Co-Curricular Activities (CCA)	02
a) Discipline (To be awarded after Final	02
year)	02
b) NCC/NSS/Sports (First Year)	
c) Sports/Proficiency (Second year to Final	
year and to be awarded after final year)	
Total	06
(f) Minor Specialization Courses (MSC)	20
or	
Departmental Honour Courses (DHC)	
Grand Total	167
(For those who do not opt for minor	
specialization/honours)	
Grand Total	187
(For those who opt for degree with honours)	

Old Scheme ME Implemented in 2005



New Scheme ME Implemented in 2013

4. Inter-Disciplinary Programmes Started

The various interdisciplinary P.G. programmes started are tabulated as under:-

Sr. No.	Year of Starting the P.G. Programme	Nameof the Course	Department initiating the course	Coordinators	Intake
1.	2011	Total Quality Engineering and Management (self- supporting)	Department of Material Science and Metallurgy	Prof. P. Thareja	21
2.	2011	Industrial Design	Department of Production Engineering	Prof. Parveen Kalra	23



Examination System	Examinations were conducted on behalf of the Panjab University,		
prior to year 2005	Chandigarh as Punjab Engineering College was an affiliated		
	College with the Panjab University		
Examination System	After 2005 the institution became deemed university. The		
after year 2005	institution started following a continuous evaluation and grading		
	system for the courses as mentioned in the "Rules and		
	Regulations for the Undergraduate Programmes" (Clause 6).		

5. Examination Reforms Implemented

The relevant portion Clause 6 (Teaching Evaluation) from "Rules and Regulations for the Undergraduate Programmes" is as under.

TEACHING AND EVALUATION Teaching

a) Medium - The medium of instruction and evaluation is English.

b) **Approval of Courses -** Each course along with its weightage in terms of credits is approved by the Senate Standing Committee as per the procedures laid down by the Senate. Only approved courses may be offered during any semester/ summer term.

c) List of Courses -The list of courses to be offered by a department is finalized before the beginning of the semester/ summer term by the concerned Head, taking into consideration all the requirements and the recommendations of the standing committee of the Senate. The list of all courses offered by the Institute in an academic term will be made available to the students before the date of registration for that term.

d) **Conduct of Courses-** Each course is conducted by the Instructor-in-charge, assigned by the Head of Department, with the assistance of the required number of tutors and other instructors. The Instructor-in-charge is responsible for conducting the course, making the question paper, holding the examinations in his/her course, getting the answer scripts evaluated by the team of tutors and other instructors, awarding grades at the end of the semester/summer term and transmitting the grades to the Academic Section through the Head of the Department within the prescribed time limit (i.e., 96 hours after the conduct of the End Semester Examination).

e) **Teaching Assignments -** The Instructors-in-Charge, instructors and tutors for all the courses offered by a department during the semester / summer term are designated by the concerned Head. If any other department is also required to participate in teaching a particular course, the respective Head designates the instructor and /or tutor.

f) A teacher is expected to follow the approved curriculum. However, he/she can deviate from it in case it is felt that such deviation will improve the academic purpose of the course. In no case, this will be treated as a ground for complaint by the students.



Evaluation

The evaluation of the students is a continuous process and is based on their performance in midsemester examinations, end semester examination, quizzes/short tests, tutorials, assignments, laboratory work (if any), make-up examinations (if applicable), etc.

In general, there shall be no choice in test/examination papers.

The Instructor-in-charge, assisted by the team of tutors and other instructors, is responsible for making the question paper, conducting the examination in his/her course, getting the answer scripts evaluated by the team of tutors, and awarding the grades. The grades are forwarded through the Head of the Department who will ensure that proper standards have been used.

The complete transparency will be maintained in evaluation system. The graded scripts of quizzes, tests, and mid-semester examinations will be returned to the students within a reasonable time. The answer scripts of the final examinations will be shown to the students after marking. All instructors will notify a time for such access within three days of the examination. A student may point out errors or omissions, if any, in marking in writing on the cover sheet of the answer script. The instructor will take these into account before submission of grades.

The final grades earned by all students registered in a course will be submitted by the Instructorin-charge to the Academic Section through the Head of the Department within 96 hours after the conduct of the End Semester Examination.

a) Schedule of Examinations -

The end-semester examination and the mid-semester examinations will be held within the periods allocated in the Academic Calendar. In exceptional circumstances, the Dean, Academic Affairs may permit holding the examinations outside these periods.

b) Make-up Examinations -

If a student, for bonafide reasons such as illness, etc., fails to appear in the end-semester examination in one or more course(s), he/ she may make a request personally or through someone to SUGC for a make-up examination within two days of the date of the scheduled examination. Such a request must, however, be made on a prescribed form, available in the Academic Section, giving reasons for the failure to appear in the end-semester examination with a certificate from a Government Hospital/Institute Dispensary, in case the failure was due to illness. In case, Govt. hospital/dispensary or institute dispensary is not in the vicinity of the student, the institute shall depute a doctor for medical examination of the student at the cost of student.

Only one make-up examination, for the end-semester examination, is allowed per course. For failures to appear in mid-semester examinations, etc., it is entirely up to the Instructor-in-charge to ascertain the proficiency of the student by whatever means he/she considers appropriate if he/she is satisfied of the student's bonafides.

Grading System

The performance of the student in a course is reported in terms of broadband grades. The following letter grades are used:

Letter Grade Performance Grade Points

A Excellent 10 B Very Good 8 C Satisfactory 6



D Marginal 4 E Deficient, reappear 0 F Failing 0 I Incomplete N Not Eligible S Satisfactory(for zero credit courses only) -

X Unsatisfactory (for zero credit courses only) -

The grade E may be awarded to a student only if the student's performance is within 5% of the cut-off performance for the last passing grade D.

The E grade will be available to the students in only the first and second semester courses. The reappear examination will be scheduled by the Academic Section.

A student's overall academic performance within a given semester or in all the courses completed is measured by two grade point averages.

Semester Grade Point Average (SGPA):The performance of a student in a particular semester is measured by Semester Performance Index (SGPA), which is a weighted average of the grades secured in all the courses taken in a semester and scaled to a maximum 10.

If the grade points associated with the letter grades awarded to a student are g_1 , g_2 , g_3 , g_4 and g_5 in five courses and the corresponding credits are w_1 , w_2 , w_3 , w_4 , and w_5 , the SGPA is given by

$$SGPA = \frac{w_1g_1 + w_2g_2 + w_3g_3 + w_4g_4 + w_5g_5}{w_1 + w_2 + w_3 + w_4 + w_5}$$

For instance, suppose a student is registered for one 5-credit course, four 4-credit courses, and one 3-credit course during a semester, i.e. a total of 24 credits. If he secures A, B, A, B, C, and D grades, respectively in these courses, his SGPA will be calculated as follows:

SGPA = (5x10 + 4x8 + 4x10 + 4x8 + 4x6 + 3x4)/24 = 190/24 = 7.9

SGPA is calculated up to one decimal place only.

Cumulative Grade Point Average (CGPA) - The Cumulative Performance Index (CGPA) indicates the overall academic performance of a student in all the courses registered up to and including the latest completed semester/summer term. It is computed in the same manner as the SGPA, considering all the courses (say, n), and is given by

$$CGPA = \frac{\sum_{i=1}^{n} w_i g_i}{\sum_{i=1}^{n} w_i}$$

The grades of any and all repeated courses are included in the official transcripts. However, once a student repeats and passes a course in which he/she had failed earlier, the earlier fail grade will not enter in to the computation of CGPA. Incomplete grades are not included in computing the GPA until an appropriate letter grade is assigned.

The Institute follows a continuous evaluation system with considerable freedom being given to the course Instructor in deciding the pattern of evaluation and weightages. However, a typical theory course will have two mid-semester examinations carrying weight of 30 percent, one or two quizzes or short tests carrying 20 percent and an end-semester examination carrying 50 percent. The total marks thus obtained are converted to a letter grade. The conversion to letter grades may or may not be based on the relative performance of the students. The grades are on a scale of 10 with the grade A being the best and E and F being fail grades. Each letter grade has a grade point associated with it, as given in the above Table. The grade E will represent a marginal failing grade with performance within 5% of minimum passing grade D. A student getting an E



grade may be allowed a reappear in a repeat examination (allowed only once) to replace the performance in the regular end semester examination. Further, this grade will be available only to the students of 1^{st} and 2^{st} semesters.

Incomplete Grade 'I': For reasons acceptable to the Instructor, an I (for Incomplete) grade may be assigned if a student fails to complete any of the required course work by the end of the semester. In all such cases, an *Incomplete Contract*, which is a formal agreement between the student and the instructor, is to be filed along with the grade report. An Incomplete Contract includes:

- The course work that remains to be completed.
- The date by which the specified work must be completed (no later than one month of the close of relevant semester).
- The final grade to be substituted for the I grade, if the specified work is not completed by the specified date.

The Incomplete Contract will be filled by the Instructor with the Academic Office when the Grade Sheet is submitted.

If the student completes the required work by the specified time, the instructor completes a grade change form indicating the final grade earned. The student should check with the instructor to ensure that a grade change form has been submitted.

If the student does not complete the required work by the specified time, the I grade is automatically replaced with the final grade specified by the Instructor on the Incomplete Contract. If a final grade is not specified, or if an Incomplete Contract is not filed, the I grade automatically reverts to an F grade after one month.

*Grade N: A student who fails to fulfil the attendance requirement for a particular course shall not be eligible to appear in the end semester examination in that course and shall be awarded the grade 'N' for that course. He/she shall have to repeat the entire course.

Project Grades – Project grades finalized as per approved procedure shall be submitted by the last date specified for the submission of grades (i.e., within 96 hours of the last date of the end semester examination). If a student wishes to petition against the grade assigned, he/she should approach the Head of the Department within a week of the beginning of the next regular academic term. The HOD will report his recommendations to the Chairman, Senate for the final decision. The Chairman, Senate may also look into such a case directly.

Grade Report - A copy of the Grade Report is issued to each student at the end of the semester.and a copy of same is also mailed to parents/guardian. A duplicate copy, if needed, can be obtained on payment of the prescribed fee.

Withholding of Grades – The grades of a student may be withheld if he/she has not paid his/her dues, or if there is a case of indiscipline pending against him/her, or for any other reason.

Honours Programme

To provide sufficient challenge to the brighter students, an Honours programme will be offered. In this programme the students will be encouraged to overreach and undertake extra learning units, assignments, projects, etc., over and above what is prescribed for the regular course. A student will have to register for the course under the Honours programme at the beginning of the semester. Such courses will be identified with the letter H suffixed to the course number. The



grade in the Honours course will depend upon the student's performance in the regular material prescribed for the course as well as in the extra material covered. For a student to graduate with Honours, she/he must earn at least 65 credits in courses with H as a suffix. The Institute Senate shall provide rules for administration of the Honours programme.



6. Candidates Qualified: NET/SLET/GATE etc.

	From Final Year (BE)	From M.E.	
Department	Number of Students	Number of Students Admitted	
	Qualified Gate for ME	with Gate Qualification	
	Admission		
Civil	Information not available in	17	
Engineering	the department	(10 Structure, 01 Highway) and	
		(05 Structure, 01 Environment)	
Computer	-do-	25	
Science and			
Engineering			
Electrical	03	25	
Engineering			
Electronics and	Information not available in	25	
Electrical	the department		
Communication			
Engineering			
Mechanical	15	25	
Engineering			
Materials and	04	04	
Metallurgical			
Engineering			

Engineering Departments

Applied Science Department

M.Sc	Ph.D
No. of Students Qualified NET/SLET etc.	No. of Students Admitted with NET/SLET etc.
Not Applicable	One Student admitted with NET



7. Initiative towards Faculty Development Programme

A major initiative towards faculty development program taken by the institution is to encourage the faculty to attend various National/International Conferences and Short Term Courses by way of providing financial assistance, leave etc. Faculty is allowed to pursue post graduation, Doctoral Research, Post Doctorate under QIP and study leave is provided for the same.

List of National Conferences/ Short-Term Courses attended by the faculty of PEC University of Technology, Chandigarh during the year 2010-2011 is as under:

Sr. No.	Name	Date and Place
1.	Dr. Manoj Datta	Nov. 8-12, 2010 New Delhi
2.	Dr. Satyendra Singh	Dec. 14-18, 2010 IIT Kanpur
3.	Dr. R.R. Singh	Oct. 9-10, 2010 Guwahati
4.	Dr. S.K. Singh	Nov. 8-12, 2010 New Delhi
5.	Dr. S.K. Mangal	Oct. 29-30, 2010, Ludhiana
6.	Ms. Shobhna Dhiman	Dec 26-30, 2010, Manipal, Karnataka
7.	Sh. J.D. Sharma	Nov. 14-16, 2010, Bangalore
8.	Sh. Rakesh Kumar	Dec 27-29, 2010, IIT Kharagpur
9.	Dr. Rintu Khanna	Dec 20-23, New Delhi
10.	Dr. Alakesh Manna	Dec. 27-29, 2010, Khargpur
11.	Dr. Neelu Jain	Dec. 25-26, 2010, Chandigarh
12.	Dr. Satyendra Singh	Jan 3-8, 2011, Kanpur
13.	Dr. Umesh Sharma	Feb 19-20, 2011, Hyderabad
14.	Dr. Sanjeev Kumar	Feb. 2-5, 2011, Bangalore
15.	Dr. P. Thareja	Feb. 11-13, 2011, Chandigarh
16.	Dr. Uma Batra	Feb. 11-13, 2011, Chandigarh
17.	Dr. Vasundhara Singh	Feb. 11-12, 2011, Chandigarh
18.	Dr. Uma Batra	Feb. 23, 2011, Chandigarh
19.	Dr. Siby John	Mar 12-14, 2011, Kottayam, Kerla
20.	Dr. H. Kaur	Feb. 26-28, 2011, Chd.
21.	Sh. Jagdish Kumar	Mar. 26, 2011, Erode, Tamilnadu
22.	Sh. Rakesh Kumar	Mar. 28, April 01, 2011 IIT Kanpur
23.	Dr. R.S. Walia	June 25-29, 2011 IIT Roorkee
24.	Ms. Alka Jindal	June 15 to July 12, 2011, Patiala
25.	Dr. Tarlochan Kaur	June 22-23, Chitkara University
26.	Ms. Sandeep Kaur	June 22-23, Chitkara University
27.	Ms. Shobhna Dhiman	July 13-17, 2011 IIT Roorkee
28.	Ms. Rintu Khanna	July 23, 2011, Chitkara University
29.	Ms. Nipun Checkar	July 28-30, Chitkara University



List of International Conferences attended by the faculty of PEC University of Technology, Chandigarh during the year 2010-11.

Sr. No.	Name	Date and Place
1.	Dr. Tarlochan Kaur	Oct 27-29, 2010 Singapore
2.	Dr. P.J. Singh	Oct 12-15, 2010 USA
3.	Dr. Siby John	May 22-26, 2011, USA
4.	Ms. Puneet Chawla	July 06-08, 2011 London
5.	Dr. P.J. Singh	July 06-08, 2011 London
6.	Dr. Deoraj Prajapati	July 27-29. 2011 Paris
7.	Dr. Neelu Jain	August 27-28, 2011, China

List of QIP/Ph.D Progamme/ME/Post Doctorate programmes attended by the faculty during the year 2010-11

Sr.	Name	Department	Type of Leave	Date of
No.				commencement
				of leave
1.	Sh. C.S. Jawalkar	Production Engg.	QIP	15.07.2010
2.	Sh. Sarabjit Singh	Mechanical Engg.	QIP	15.07.2010
3.	Sh. S.K. Soni	Mechanical Engg.	QIP	20.07.2010
4.	Sh. Arun Kumar	Electronics and	Study leave for	26.07.2010
		Electrical	PhD at	
		Communication	Manchester	
		Engineering	University	
5.	Ms. Sandeep Kaur	Electrical Engg.	QIP	18.07.2011



8. Total Number of Seminars/Workshop Condu	cted
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S. N o.	Name of Faculty	Department	Title of Conference/Worksh op/ Seminar	Duration	Sponsored By/ Self Finance
1.	Dr. Anju Singla	Applied Science	One day National Seminar on "Entrepreneurship Opportunities and Challenges"	Nov 26 th , 2010	Sponsored By SBI, Punjab Infotech
2.	Dr P S Satsangi and Dr D R Prajapati	Mechanical Engineering	Short Term Course on Six Sigma and Research Methodology	Dec 20 th – 24, 2010	Self Finance
3.	Dr. Divya Bansal	Computer Science and Engineering	A one day seminar on "Data Protection and Cyber Security"	Dec. 27th, 2010	Self Finance
4.	Dr. Anju Singla	Applied Science	Two day Workshop on "Leadership in Higher Technical Education"	Feb 23 rd - 24 th , 2011	Institute Financed
5.	Sh R K Mahajan and Sh J D Sharma	Materials and Metallurgical Engineering	Banking and Financial Services, Speakers : Dr V K Gupta (Dy. Managing Director, SBI) and Dr. Neelima Gupta	June 24 th , 2011	IIM Chandigarh Chapter and Moonlight Industries, Ludhiana
6.	Dr Shakti Arora and Dr S K Singh	Civil Engineering	National Workshop on "Best Practices of MSW Management in India" (with focus on Chandigarh).	Nov. 03 rd , 2011	PEC University of Technology and Chandigarh Administration



9. Research Projects a) Ongoing b) Completed

	External Projects								
S. No.	Name of Principal Investigator/ Co- Investigator	Department	Title of the Project	Year of Sanction	Sponsored by	Amount (in Lakhs)	Ongoing/ Completed (year of completion)		
1.	Ms. Sarita Singla	Civil Engineering	Experimental study of mechanical behaviour and durability of HPC	2006	AICTE	9.80	Ongoing		
2.	Dr. L.N Sharma	Applied Sciences	Spatio-Temporal Monitoring Of A Glacier Using Satellite Remote Sensing and Luminescence	2007	DST	101.0	Ongoing		
3.	Dr. Siby John	Civil Engineering	Assessment of geochemical parameters of ground water in Chandigarh	2007	DST	2.70	Ongoing		
4.	Dr. Divya	Computer Science and Engg.	Design and development of dependable secure and efficient protocols for wireless mesh network	2009	DIT	46.64	Ongoing		
5.	Dr. Arun K Lal	Mechanical Engineering	Establishment of new national MEMS Design Centre	2009	IISC, Banglore	11.16	Ongoing		
6.	Dr. T.K Jindal	Aeronautical Engineering	Design and Development of pulse detonation propulsion system test Rig	2009	TBRL	8.0	Ongoing		
7.	Dr. Siby John	Civil Engineering	Monitoring and performance evaluation of STP at Raipur Khurd, Chandigarh	2010	Engineerin g Deptt. Chandigar h Administra tion	1.0	Ongoing		
8.	Dr. R. S Walia	Production Engineering	Investigation of Hybrid Abrasive Flow Machining	2010	Institute of Engineers	23	Ongoing		
9.	Dr. R. S Walia	Production Engineering	U.S Space Centre Moon buggy April, 2011	2011	DST, Chd. Admn., Govt. of Punjab	10.62	Completed 2011		



	In-House Projects (Sponsored by PEC University of Technology)									
S. No.	Name of Principal Investigator/ Co- Investigator	Department	Title of the Project	Year of Sanction	Amount (in lakhs)	Ongoing/ Completed (year of completion)				
1	Dr. Neena Gupta, Ms. Divya, Ms. Amita Soni	Electronics and Electrical Communication Engineering	Optical Communication System Design	2006	11.0	Completed in 2010				
2.	Dr. Narendra Mohan	Production Engineering	Development of submerged arc welding fluxes	2006	10.0	Ongoing				
3.	Dr. Uma Batra	Materials and Metallurgical Engineering	Establishment of state of the art lab-Material characterization lab	2006	20.0	Ongoing				
4.	Sh. J.D.Sharma	Materials and Metallurgical Engineering	Development of ADI and its commercialization	2006	5.0	Ongoing				
5.	Dr. T.K Jindal	Aeronautical Engineering	Centre for Research and Promotion of Non- Conventional Energy Sources	2006	1.0	Ongoing				
6.	Dr. Uma Batra	Materials and Metallurgical Engineering	Enhancement of mechanical properties and biocompatibility of hydroxyapatite ceramic using sintering additives	2008	14.0	Ongoing				
7.	Dr. S.KMangal	Mechanical Engineering	To set up semi active vibration control facility	2008	17.0	Ongoing				
8.	Ms.Jyoti Kedia	Electronics and Electrical Communication Engineering	VLSI Design Lab	2008	12.0	Ongoing				
9.	Dr. S K Singh	Civil Engineering	Geotechnical computational facility	2008	16.0	Completed 2010				
10.	Dr. Sanjeev Kumar Dr. D.R Prajapati	Mechanical Engineering	Improving the Surface Properties of Important Die Steel Materials by Electrical Discharge Machining	2009	17.75	Ongoing				
11.	Dr. Divya Dr. Sanjeev Sofat	Computer Science and Engineering	Wireless Sensor Networks Research Facility	2009	12.0	Ongoing				
12.	Dr. Satyendra Singh Dr. Vasundhara Singh	Applied Science	SynthesisandCharacterizationofNano-structuredMaterialsMemoryApplicationand	2009	23.5	Ongoing				



			Catalysis			
13.	Sh. Nagendra Sah Dr. Neelam R Prakash Ms. Jasbir Kaur	Electronics and Electrical Communication Engineering	Wireless Design and Planning Facility	2010	14.0	Ongoing
14.	Dr. R.S. Walia Dr. N.M Suri	Production Engineering	Developing Hybrid EDM Process	2010	23.0	Ongoing
15.	Sh. V. Rihani Dr. Neelu Jain	Electronics and Electrical Communication Engineering	Establishment of Facility for Embedded Systems	2010	20.5	Ongoing
16.	Dr. Divya Dr. Sanjeev Sofat	Computer Science and Engineering	Password Recovery Facility	2010	20.0	Ongoing
17.	Sh. Rakesh Kumar Sh. Kishori Lal	Aeronautical Engineering	Installation of Supersonic Open-jet Wind Tunnel with Data Acquisition System	2010	20.0	Ongoing
18.	Dr. Parveen Kalra Dr. R.S. Walia	Production Engineering	Ergonomics Evaluation of Industrial Systems and Consumer Products	2010	25.0	Ongoing

10. Patents Generated: NIL



S.No.	Collaborating Agency	Area of Collaboration	Year of Collaboration and present status
1	Philips India Limited (List of rest of existing ongoing collaborations attached alongwith Annexure for reference of ongoing collaboration activity).	Innovation in technology	Started in September 2008 and further new projects started in September 2010
2.	Cyber Security and Research Centre	Information Security, Project Research	2007 (In force)
3.	Central Scientific and Research Organisation (CSIO), Sector-30, Chandigarh	Collaborative Research, Training and Academics	2008 (In force)
4.	Philips India Limited	Collaborative Research and Industrial Projects	2008 (In force)
5.	ABB Limited, India	Robotics Design	2009 (In force)
6.	Mohali Industrial Association	Industry Interface and industrial trainings	2009 (In force)
7.	PEC PECOSA Collaborations	Upgradation of Academic Curriculum and to inititate new collaborations	2009 (In force)
8.	PEC-IBM MoU	Advances in R&D to fulfill industry institute gap	2010 (In force)
9.	New Jersy Institute of technology (NJIT), USA	Academic and student exchange	2011 (In force)

11. New Collaborative Research Programmes



Sr.	Principal	Title of Research Project	Funding Agency	Amount
No	Investigator /			(Rs in
	Co-Investigator			Lacs)
1.	Dr. L.N Sharma	Spatio-Temporal Monitoring Of A Glacier	DST	101.00
		Using Satellite Remote Sensing and		
		Luminescence		
2.	Ms. Sarita Singla	Experimental study of mechanical behaviour	AICTE	9.80
		and durability of HPC		
3.	Dr. Siby John	Assessment of geochemical parameters of	DST	2.70
		ground water in Chandigarh		
4.	Dr. Divya	Design and development of dependable secure	DIT	46.64
		and efficient protocols for wireless mesh		
		network		
5.	Dr. Arun K Lal	Establishment of new national MEMS Design	IISC, Banglore	11.16
		Centre		
6.	Dr. Siby John	Monitoring and performance evaluation of STP	Engineering	1.00
		at Raipur Khurd, Chandigarh	Department	
			Chandigarh	
			Administration	
7.	Dr. T.K Jindal	Design and Development of pulse detonation	TBRL	8.00
		propulsion system test Rig		
8.	Dr. R. S Walia	U.S Space Centre Moon buggy April, 2011	DST, Chandigarh	10.62
			Administration,	
			Govt. of Punjab	

12. Research Grants Received From Various Agencies



13. Details of Research Scholars

S	SID	Name	Department	Supervisor(s)	Year	Title of PhD Thesis
No.					of	
					Admis	
					sions	
1.	073002	Anita	Applied Science	Dr.Harminder	2007	Potentiometric studies on
		Rani		Kaur		the complexes of a^{2+} a^{2+} a^{2+} a^{2+} a^{2+} a^{2+} a^{2+}
		Singla				$Co^{2+}, N1^{2+}, Cu^{2+}, Zn^{2+}, Cd^{2+}, Sn$
						Hg ² and Pb ² with some
	072027	D 1	A 1' 1 C '		2007	novel drugs and fatty acids.
2.	073027	Rajesn	Applied Science	Dr.M.L.Gupta	2007	Impact of leadership
		. Э				alimete en ampleuse
						commitment: A study of
						small scale enterprises in
						Delhi.
3.	073014	Radhe	Applied Science	Dr.Harminder	2007	Adsorptive Removal of
		Shyam		Kaur		toxic metals and organics by
				Dr.R.Amutha		fly ash and other low cost
						adsorbents from aqueous
4	002002	T . 1	A 11 1 G 1		2000	solution.
4.	083002	Jatinder	Applied Science	Dr.Prem Lata	2008	Development of thermally
		Kaur				stable insensitive high
						futuristic Armament Stores
5.	083004	Gulsha	Applied Science	Dr.Vasundhara	2008	New Synthetic Approaches
5.	002001	n		Singh	2000	towards sphingolipids and
		Kumar		6		related compounds.
6.	083005	Rajni	Applied Science	Dr.Vasundhara	2008	Synthesis of ionic liquid
		Ratti		Singh		clay based recyclable and
						recoverable catalytic
						systems.
7.	0930102	Gurpre	Applied Science	Dr.Vasundhara	2009	New Synthesis Methodogies
		et Kaur		Singh		for Potentially Bioactive
	0020102	D	A 11 1 G 1		2000	Heterocycles.
8.	0930103	Renu	Applied Science	Dr.M.L.Gupta	2009	Indian financial inclusion
		Lamba				drive through microfinance:
						A comparative study of MEIs and RRBs in the states
						of Punjab Harvana and
						Himachal Pradesh
9.	0930104	Upendr	Applied Science	Dr.M.L.Gupta	2009	Title not vet decided
		a	rr	v		
		Tiwari				
10.	0930105	Kanav	Applied Science	Dr.Harminder	2009	Synthesis Characterization



		Dhir		Kaur Dr.Jaspreet Kaur		and biological activity of diorgans and triorganotin (iv) complexes with some ligands.
11.	0930106	Anuskh a Sagwan	Applied Science	Dr.Anju Singla	2009	Impact of organizational culture on employees attrition: A study of IT industry in Punjab and Chandigarh.
12.	10301001	Naveen Kumar Gupta	Applied Science	Dr.Vansundhar a Singh	2010	Synthesis of Photo catalytic nano materials.
13.	11301001	Arpana Garg	Applied Science	Dr.Sucheta	2011	Title not yet decided
14.	11301002	Munish Kapila	Applied Science	Dr.M.L.Gupta	2011	Title not yet decided
15.	11301003	Parul Grover	Applied Science	Dr.Anju Singla	2011	Title not yet decided
16.	11301004	Pavitra Dhamij a	Applied Science	Dr.Anju Singla	2011	Title not yet decided
17.	11301005	Preeti Nandal	Applied Science	Dr.Vasundhara Singh	2011	Title not yet decided
18.	11301008	Satbir Singh	Applied Science	Dr.Asha Goel	2011	Title not yet decided
19.	11301009	Satwant Kaur Sahi	Applied Science	Dr.Vasundhara Singh	2011	Title not yet decided
20.	11301010	Shivani Gupta	Applied Science	Dr.Anju Singla	2011	Title not yet decided
21.	11301011	Sudhir Pujara	Applied Science	Dr.Sucheta	2011	Title not yet decided
22.	11301012	Kamal Kishore	Applied Science	Dr.Asha Goel	2011	Title not yet decided
23.	11301014	Akansh a Kapila	Applied Science	Dr.Harminder Singh	2011	Title not yet decided
24	11301015	Amanp reet Longia	Applied Science	Dr.Vasundhara Singh	2011	Title not yet decided
25.	073003	Ashwa ni Kumar	Mechanical Engg.	Dr.S.K.Mangal	2007	Performance Analysis of Magneto-rheological Dampers.



26.	073007	Harlal Singh Mali (Degree Comple ted)	Mechanical Engg.	Dr.A.Manna	2007	An Experimental investigation on abrasive flow finishing of Al/SiCp- MMC.
27.	073010	Jujhar Singh	Mechanical Engg.	Dr.P.S.Satsang i Dr.R.S.Walia Dr.V.P.Singh	2007	Investigation of Ultrasonic assisted electric discharge machining performance.
28.	073013	Neeraj Singhal	Mechanical Engg.	Dr.R.S.Walia	2007	Title not yet decided
29.	073015	Rajesh Kumar	Mechanical Engg.	Dr.P.Kalra Dr.Arun K.lall	2007	Physiological Evaluation of Manual Handling of Low Loads at high Frequency.
30.	073019	Tejbir Kaur	Mechanical Engg.	Dr.V.P.Singh	2007	Title not yet decided
31.	073025	Anoop Kumar Singh	Mechanical Engg.	Dr.V.P.Singh Dr.Sanjeev Kumar	2007	Improving the Surface Properties of Super alloys by Electrical Discharge Machining Process.
32.	073026	Arinda m Ghosha l	Mechanical Engg.	Dr.A.K.Lall Dr.A.Manna	2007	An Investigation on thermal behavior and optimization of parameter during ND:YAG laser cutting of AI/10vol%SiC-MMC.
33.	073029	Rakesh Kumar	Mechanical Engg.	Dr.S.K.Mangal	2007	Title not yet decided
34.	073030	Sanjay Kumar Kaushi k	Mechanical Engg.	Dr.P.S.Satsang i	2007	Title not yet decided
35.	073031	Sushil Kumar	Mechanical Engg.	Dr.P.S.Satsang i Dr.D.R.Prajapa ti	2007	Application of Six Sigma Methodology for improved performance in Manufacturing industries-A case study.
36.	0930901	Harjind er Singh Pannu	Mechanical Engg.	Dr.D.R.Prajapa ti Dr.Sanjeev Kumar	2009	Title not yet decided
37.	0930902	Harry Garg	Mechanical Engg.	Dr.Arun.K.Lall	2009	Title not yet decided
38.	0930903	K.Z.Mo lla	Mechanical Engg.	Dr.A.Manna	2009	Experimental investigation Electrochemical Grinding of Al/ (Al ₂ O ₃ -ZrO ₂)-MMC.



39.	0930904	Sukhraj singh	Mechanical Engg.	Dr.D.P.Prajapti	2009	Design of Quality Control Chart for Auto correlated Data.
40.	0930906	Balraj Singh Brar	Mechanical Engg.	Dr.V.P.Singh Dr.R.S.Walia	2009	Study of Hybrid Abrasive Flow Machining Processes.
41.	10309001	Aman Kumar	Mechanical Engg.	Dr.P.S.Satsang i Dr.Perminder.J .Singh	2010	Title not yet decided
42.	10309002	Amit Kumar Tanwar	Mechanical Engg.	Dr.D.R.Prajapa ti Dr.Perminder.J Singh	2010	Title not yet decided
43.	10309003	Mukesh Verma	Mechanical Engg.	Dr.A.Manna	2010	Title not yet decided
44.	10309004	Majid Mehrab i	Mechanical Engg.	Dr.V.P.Singh	2010	Title not yet decided
45.	11309001	Amolje et Singh Gill	Mechanical Engg.	Dr.Sanjeev Kumar	2011	Title not yet decided
46.	11309002	Bhanup artap Singh	Mechanical Engg.	Dr.Arun.K.Lall	2011	Title not yet decided
47.	11309003	Karanp reet Bhopar ai	Mechanical Engg.	Dr.P.S.Satsang i	2011	Title not yet decided
48.	11309004	Rajwin der Singh	Mechanical Engg.	Dr.V.P.Singh	2011	Title not yet decided
49.	11309005	Amit Thakur	Mechanical Engg.	Dr.A.Manna	2011	Title not yet decided
50.	11309006	Jaspreet Hira	Mechanical Engg.	Dr.A.Manna	2011	Title not yet decided
51.	11309008	Abhish ek Chauha n	Mechanical Engg.	Dr.Sanjeev Verma	2011	Title not yet decided
52.	11309009	Bidyut Kumar Panda	Mechanical Engg.	Dr.Sanjeev Verma	2011	Title not yet decided



53.	09301101	Jagjit Singh Randha wa	Production Engg.	Dr.N.M.Suri	2009	Development of Fluxes for Submerged ARC welding of Stainless Steel.
54.	09301102	Raman deep Singh	Production Engg.	Dr.R.S.Walia	2009	Development and Investigation in centrifugal magnetic force assisted abrasive flow Machining Process.
55.	09301103	Sukhwi nder Singh Bhullar	Production Engg.	Dr.P.Kalra	2009	Title not yet decided
56.	10310001	Jaswind er Singh	Production Engg.	Dr.Parveen Kalra/Dr.R.S. Walia	2010	To study the Impact Lifting Tasks on Indian Workers.
57.	10310002	Rahul O.Vasi hya	Production Engg.	Dr.R.S.Walia/ Dr.P.Kalra	2010	Title not yet decided
58.	10310003	Jitender Kumar	Production Engg.	Dr.N.M.Suri	2011	Title not yet decided
59.	11308001	Gurpre et Singh Phull	Production Engg.	Dr.R.S.Walia	2011	Title not yet decided
60.	11308002	Arvind Kumar	Production Engg.	Dr.P.Kalra	2011	Title not yet decided
61.	11308003	Shamsh er Singh Barguje r	Production Engg.	Dr.N.M.Suri/D r.R.M.Balokar	2011	Title not yet decided
62.	11308004	Vikas Bhardw aj	Production Engg.	Not yet decided	2011	Title not yet decided
63.	073005	Deepak Bhutani	Production Engg.	Dr.R.S.Walia/ Dr.Nagendra Mohan	2007	Study of Magnetic Abrasive Finishing Process.
64.	073001	Ajay Mittal	Computer Science and Engg.	Dr. Sanjeev Sofat	2007	A Stereo-Vision based obstacle detection technique for navigation.
65.	073006	Divya Bansal	Computer Science and Engg.	Dr.Sanjeev Sofat	2007	Design of framework for dependable, secure and efficient protocols for wireless mesh networks.



67. 0930501 Manavj eet Kaur Computer Science and Engg. Dr.Sanjeev Sofat 2009 Design of a Multibiometric System using Fuzzy vault Template Security Technique. 68. 10305001 Kailash Kumar Computer Science and Engg. Dr.Sanjeev Sofat 2010 Title not yet decided 69. 073008 Jaimala Ghambhir Electrical Engg. Dr.Tilak Thakur 2007 Smart Grid Integration with Dfig Wind Power Plants for Flexible Power Network Operation. 70. 073017 Rashmi Vikal Electrical Engg. Dr.Shiv Narayan 2007 Design of Two Degrees of Freedom Controllers Using Evolutionary Algorithms 71. 10306001 Preeti Gupta Electrical Engg. Dr.Shiv Narayan 2010 Title not yet decided 72. 11306001 Abhishek Ghandhar Electrical Engg. Dr.Balwinder Singh 2011 Title not yet decided
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Ghandhar Engg. Singh
73. 11306002 Ashu Valecha Electrical Dr.Shiv 2011 Title not yet decided
Engg. Narayan
74.11306003BhawanaElectricalDr.Shiv2011Title not yet decided
Tandon Engg. Narayan
75.11306004Puneet ChawlaElectricalDr.Balwinder2011Title not yet decided
Engg. Singh
76. 11306005 Reminder Kaur Electrical Dr.Tarlochan 2011 Title not yet decided
Engg. Kaur
77. 11306006 Sulata Electrical Dr.Tilak 2011 Title not yet decided
Bhandari Engg. Thakur
78. 11306007 Surbhi Bakshi Electrical Dr. Tilak 2011 Title not yet decided
Engg. Thakur
79. 11306008 Kamal Kant Electrical Dr.Balwinder 2011 Title not yet decided
Snarma Engg. Singn 90 1120(000 Shimi S L Electrical Dr Tilele 2011 Title not not de side d
80. 11306009 Snimi.S.L. Electrical Dr. Illak 2011 Title not yet decided
Engg. Inakur
DI.Jaguisii Kumar
81 0830601 Inderpreet F& FC Dr Neena 2008 Performance Modeling of
Kaur Engo Gunta Hybrid Fiber Amplifier for
DWDM Systems
82. 0830602 Shilpa Jindal E& EC. Dr.Neena 2008 A Novel 3 D Coding
Engg. Gupta Technique for Performance
Evaluation of OCDMA
Systems



83.	0830603	Sukhwinder	E& EC.	Dr. Neelam	2008	A Novel approach to extract
		Singh	Engg.	Rup Parkash.		and enhance the edges of
						noisy grey scale images.
84.	0930701	Divya	E& EC.	Dr.Neena	2009	An Efficient Coded OFDM
			Engg.	Gupta		Based Transmission
						Scheme for High Speed
						Optical Communication
						System
85.	0930702	Pamela	E& EC.	Dr. Deepak	2009	Title not yet decided
		Chawla	Engg.	Bagai		
86.	0930703	Rita Mahajan	E& EC.	Dr.Deepak	2009	An Improved Learning
			Engg.	Bagai		Scheme for Cognitive Radio
						Engine Using Artificial
						Neural Networks
87.	10307005	Nagendra Sah	E& EC.	Dr.Neelam	2010	Title not yet decided
			Engg.	Rup Parkash		
88.	10307001	Gurpadam	E& EC.	Dr. Neelam	2010	Title not yet decided
		Singh	Engg.	Rup Parkash		
89.	10307004	Kadam Vashist	E& EC.	Dr. Neena	2010	Title not yet decided
			Engg.	Gupta		
90.	10307003	Jyoti Kedia	E& EC.	Dr.Neena	2010	Title not yet decided
			Engg.	Gupta		
91.	10307002	Jasbir Kaur	E& EC.	Dr.Neelam	2010	Title not yet decided
			Engg.	Rup Parkash		
92.	0930201	Vandana	Aerospace	Dr.Tejinder	2009	Design optimization of an
		Kansal	Engg.	Kaur Jindal		energy efficient wind
						turbine for high altitude
						areas and formulizing the
						guidelines for
						technology
02	11201102	Tomonno	Motoriala	Dr Umo Potro	2011	Title pot yet desided
95.	11501102	Tamanna	materials	DI.UIIIa Dalla	2011	The not yet decided
			allu Motollurgio			
			al Enga			
94	11301103	Ravinder Pal	Materials	Dr Uma Batra	2011	Title not vet decided
74.	11501105	Singh	and	DI. Onia Datia	2011	The not yet decided
		Singn	Metallurgic			
			al Engg.			
95.	073027	Arman Singh	Civil Engg.	Dr.A.M.Kalra	2007	Title not yet decided
96.	083003	Sarita Singla	Civil Engg.	Dr.N.P.Devgan	2008	Title not yet decided
97.	0830301	Kewel Krishan	Civil Engg.	Dr.A.M.Kalra	2008	Title not yet decided
		Gupta	66.			, , , , , , , , , , , , , , , , , , ,
98.	0930301	Anil Kumar	Civil Engg.	Dr.Umesh	2009	Title not yet decided
		Sharma		Sharma		



99.	0930303	Karuna	Civil Engg.	Dr.Umash	2009	Development of Framework
		Sharma		Sharma		for Evaluation of various
						Capacity Enhancement
						Techniques for an Urban
						City.
100.	10302001	Mahesh Kumar	Civil Engg.	Dr.Tripta	2010	Development of integrated
				Goyal		quality assurance Model
						upgradation for Highways
101.	10302002	Sunil	Civil Engg.	Dr.S.K.Singh	2010	Title not yet decided
		Bhardwaj				
102.	11303002	Natraj Singh	Civil Engg.	Dr.N.P.Devgan	2011	Title not yet decided
103.	11303001	Maninder Kaur	Civil Engg.	Dr.Siby John	2011	Title not yet decided
104.	11303004	Uma Malik	Civil Engg.	Dr.A.M.Kalra	2011	Title not yet decided
105.	11303005	Nirpinder Jain	Civil Engg.	Not yet	2011	Title not yet decided
				decided		
106.	11303006	Hitender	Civil Engg.	Dr.Pardeep	2011	Title not yet decided
		Kumar		kumar		
107.	11303007	Harpreet Singh	Civil Engg.	Dr.S.K.Singh	2011	Title not yet decided



14. Citation Index of Faculty Members and Impact Factor

	1	I ublications of Faculty members	· · · · · · · · · · · · · · · · · · ·		
S. No.	Name of Faculty	Details of Publications	Citation Index	Impact Factor	
1	Dr. T K Jindal	"Performance Analysis of a Free Piston Displacer Miniature Stirling Cryolooler" Proc Ingternational Cryogenic Engineering Conference ICEC-ICM2010, pp 93-99, 2011	Not known	Not known	
2	Mr. Radhey Sham, Dr. T K Jindal, Mr. B S Babla	"Cryogenic processes- A review", International Journal of Engg. Science and Technology, Vol. 1 Jan, 2011 pp 601-609	Not known	Not known	
3	Mr. Radhey Sham, Dr. T K Jindal, Mr. B S Babla	"Thermodynamic analysis of free piston free displacer miniature crycooler with real processes" International Journal of Engg. Science and Technology, Vol. 1 Jan, 2011 pp 464-470	Not known	Not known	
4	Mr. Radhey Sham, Dr. T K Jindal, Mr. B S Babla	"Non Conventional – Energy Cooling for Rural Development" Published in International Journal of Theoretical and Applied Mechanics (IJTAQM) ISSN 0973- 6085 Volume 6, Number 1 (2011) pp. 83-88	Not known	Not known	
5	Alka Jindal	Contrast of Watermarking techniques in different domains IJCSI	Not known	0.242	
6	Rupali Verma	International Journal of Computational Intelligence and Information Security, Sept. 2011 vol. 2 No. 9.	Not known	Not known	
7	Dr Ranjeet Sehmi, RJ Hans Gill and Madhu Raka	"Estimates on conjectures of Minkowski and Woods" Indian Journal of Pure and Applied Mathematics, 41(4) 595-606, Aug 2010 ISSN 0019-5588 (Springer)	Not known	0.254	
8	Dr Ranjeet Sehmi, RJ Hans Gill and Madhu Raka	"On conjectures of Minkowski and Woods for n=8", Acta Arithmetica, 147.4(2011) 337-385. ISSN 0065-1036 () 1730-6264(e) (Polish Academy of Sc.)	Not known	0.496	
9	Dr H Kaur, R Amutha and Radhe Shyam	Utilization of Melia azedarach fruit based adsorbents for the removal of heavy metal ions from waste water. Asian Journal of Research in Chemistry. 4(11): 1772-1776, Nov, 2011	Not known	5.10	
10	Dr H Kaur, R Amutha and Radhe Shyam	Influence of acid treatments of sugarcane bagasse carbon sample on the adsorption of Cu(II) and Pb (II) from aqueous solution. Asian Journal of Research in Chemistry. Vol.4,1668-1684, Nov 2011	Not known	5.10	
11	Vasundhara Singh,	(S)- Garner aldehyde derived Baylis-Hilman	Not known	1.0	

Publications of Faculty members



	Gulshan Kumar and Sukhbir Kaur	adduct: a substrate for the synthesis of a lactone ceramide analougue via a sequential		
	Sukholi Kaul	Heck reaction ARKIVOC 2011(x) 148-159		
12	Vasundhara Singh	An improved methodology for synthesis of	Not known	1.0
	Gulshan Kumar, Sukhbir	new Ugi adducts and its application in	1 (ot hilo ())	110
	Kaur and Jasvinder Singh	combinatorial synthesis ARKIVOC Ian		
		2011 Page 151-160		
13	Vasundhara Singh.	Efficient synthesis of styryl analogue of	Not known	1.2
10	Gulshan Kumar and	(2S.3R.4E)-N2-Octa decanovl-4-	1.000 1110 001	
	Sukhbir Kaur	tetradecasphingenine in a cross metathesis		
		reaction. HELVETICACHEMICA ACTA		
		VOL 94(4).April 2011,650-655		
14	Vasundhara Singh, Rajni	Synthesis and characterization of recyclable	Not known	3.0
	Ratti and Sukhbir Kaur	and recoverable MMT-clay exchanged		
		ammonium tagged carbapalladacycle		
		catalysts for Mizoroki-Heck and Sonogashira		
		rections in ionic liquid media. J.Mol.Cat.A		
		Vol 334 (1-2), Jan 2011.page 13-19		
15	Vasundhara Singh, Rajni	Preparation, Characterisation and catalytic	Not known	3.0
	Ratti, Sukhbir Kaur and	activity of MMT-Clay exchanges Sulphonic		
	Michael Vaultier	Acid Functionalised onic liquid for		
		transesterification of β -Ketoesters. Vol 11,		
		Issue 6,20 Feb 2010, pages:505-507		
16	Prem Lata, Jatinder Kaur,	Determination of solvent contamination and	Not known	0.992
	V.P.Arya	characterization of ultrafine HNS particles		
		after solvent recrystallization. International		
		journal of 'Propellants, Explosive and		
		Pyrotechnic'. 35,487-493,2010		0.775
17	Divya Bansal, Sanjeev	"Beacon Spoofing Attack: Impact and	Not known	0.572
	Sofat	Security in Wireless Mesh Networks", ChT		
		International Journal of Wireless		
		Communication, Pring: ISSN 09/4-9/56		
10	N 1 CL 1 D	and Online: ISSN 0974-9640, June 2011	NT (1	NT (1
18	Nagender Shah, Dr.	Implication of Propagation Modeling in	INOT KNOWN	INOT KNOWN
	ineeiam Kup Prakash	Lowerage Prediction in the international		
		Journal of Computer Science and technology		
		(IJCS1), VOI 1,1, ISEP,2010 Page NO. 41-		
10	Dr. Neelom Dun Drokoch	"Improvement in Spectrum Sensing by	Not known	Not known
19	T DL INCCIALLI KUD PTAKASI	mprovement in Spectrum Sensing by	I INUL KHUWH	INOU KHOWH
1		Locally Optimal Detection Techniques in		
		Locally Optimal Detection Techniques in		
		Locally Optimal Detection Techniques in Cognitive Radio, IFRSA International Journal of Computing, Vol. 1 PP, 504, 509		
		Locally Optimal Detection Techniques in Cognitive Radio, IFRSA International Journal of Computing, Vol, 1 PP. 504-509, 2011		
20	Dr. Neelam Run Prakash	Locally Optimal Detection Techniques in Cognitive Radio, IFRSA International Journal of Computing, Vol, 1 PP. 504-509, 2011	Not known	0.492
20	Dr. Neelam Rup Prakash	Locally Optimal Detection Techniques in Cognitive Radio, IFRSA International Journal of Computing, Vol, 1 PP. 504-509, 2011 "An Efficient Implementation of Low Power Logic Functions using Novel GDI Cells"	Not known	0.492
20	Dr. Neelam Rup Prakash	Locally Optimal Detection Techniques in Cognitive Radio, IFRSA International Journal of Computing, Vol, 1 PP. 504-509, 2011 "An Efficient Implementation of Low Power Logic Functions using Novel GDI Cells", CIIT International Journal of Programmable	Not known	0.492



		Device Circuits and Systems, Vol-3, No 6, PP292-296, May 2011		
21	Dr. Neelam Rup Prakash	"Dimensional Analysis and Segmentation	Not known	0.652
	1	of touching rice grains", IFRSA		
		International Journal of Digital image		
		processing, Vol 2, No 7, pp 189-193		
22	Dr. Neelam Rup Prakash	Automatic Segmentation of Touching Rice	Not known	0.652
	-	Grain Using Image Processing, CIIT		
		International Journal of Digital image		
		processing, Vol 2, No 7, pp 203-206		
23	Dr. Neelam Rup Prakash	"An Enhanced Method for Period-3 Based	Not known	0.441
	_	Exon and Gene Prediction", CIIT		
		International Journal of Fuzzy Systems, Vol		
		2, No 2, pp 19-27		
24	Dr. Neelam Rup Prakash	"An Efficient Implimentation of	Not known	0.572
		Oversampled Cosine Modulated Trans		
		Multiplexers", International journal of		
		advanced Engineering and Applications, pp		
		310-315		
25	Dr. Neelam Rup Prakash	"Implication of Propagation Modelling in	Not known	0.656
		Coverage Prediction" International Journal		
		Of Computer Science and Technology, Lets		
		Talk Innovative, Vol. 1, PP. 41-44		
26	Dr. Neena Gupta,	"Implementation of DGE for Performance	Not known	Not known
	Ms.DivyaDhawan	Optimization of Hybrid Fiber Amplifiers"		
		International Journal of Computer Science		
		and Technology IJCST, pp 45-47, (ISSN:		
		0976-8491, ISSN: 2229-4333 (Print)) Vol. 1,		
27		Issue 1, September 2010		
21	Dr. Neena Gupta	Issue 1, September 2010 Realization of All-optical NOR gate at 10-	Not known	0.492
21	Dr. Neena Gupta	Realization of All-optical NOR gate at 10- Gb/s by cascading OR and NOT gates" CIIT	Not known	0.492
21	Dr. Neena Gupta	Issue 1, September 2010 Realization of All-optical NOR gate at 10- Gb/s by cascading OR and NOT gates" CIIT Journal of Programmable Devices and	Not known	0.492
21	Dr. Neena Gupta	Issue 1, September 2010 Realization of All-optical NOR gate at 10- Gb/s by cascading OR and NOT gates" CIIT Journal of Programmable Devices and Circuits, vol. 3. No. 6, May 2011 Print: ISSN	Not known	0.492
21	Dr. Neena Gupta	Issue 1, September 2010 Realization of All-optical NOR gate at 10- Gb/s by cascading OR and NOT gates" CIIT Journal of Programmable Devices and Circuits, vol. 3. No. 6, May 2011 Print: ISSN 0974 – 973X and Online: ISSN 0974 – 9624	Not known	0.492
27	Dr. Neena Gupta Jyoti Kedia, Dr. Neena	Issue 1, September 2010 Realization of All-optical NOR gate at 10- Gb/s by cascading OR and NOT gates" CIIT Journal of Programmable Devices and Circuits, vol. 3. No. 6, May 2011 Print: ISSN 0974 – 973X and Online: ISSN 0974 – 9624 "High Performance Electrical and Optical	Not known Not known	0.492
28	Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta	Issue 1, September 2010 Realization of All-optical NOR gate at 10- Gb/s by cascading OR and NOT gates" CIIT Journal of Programmable Devices and Circuits, vol. 3. No. 6, May 2011 Print: ISSN 0974 – 973X and Online: ISSN 0974 – 9624 "High Performance Electrical and Optical Interconnects", CIIT International Journal of	Not known Not known	0.492
28	Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta	Issue 1, September 2010 Realization of All-optical NOR gate at 10- Gb/s by cascading OR and NOT gates" CIIT Journal of Programmable Devices and Circuits, vol. 3. No. 6, May 2011 Print: ISSN 0974 – 973X and Online: ISSN 0974 – 9624 "High Performance Electrical and Optical Interconnects", CIIT International Journal of Programmable Device Circuits and Systems,	Not known Not known	0.492
28	Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta	Issue 1, September 2010 Realization of All-optical NOR gate at 10- Gb/s by cascading OR and NOT gates" CIIT Journal of Programmable Devices and Circuits, vol. 3. No. 6, May 2011 Print: ISSN 0974 – 973X and Online: ISSN 0974 – 9624 "High Performance Electrical and Optical Interconnects", CIIT International Journal of Programmable Device Circuits and Systems, July 2011	Not known Not known	0.492
28	Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta Jyoti Kedia, Dr. Neena	Issue 1, September 2010 Realization of All-optical NOR gate at 10- Gb/s by cascading OR and NOT gates" CIIT Journal of Programmable Devices and Circuits, vol. 3. No. 6, May 2011 Print: ISSN 0974 – 973X and Online: ISSN 0974 – 9624 "High Performance Electrical and Optical Interconnects", CIIT International Journal of Programmable Device Circuits and Systems, July 2011	Not known Not known Not known	0.492 0.492 0.492 Not known
28	Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta	Issue 1, September 2010 Realization of All-optical NOR gate at 10- Gb/s by cascading OR and NOT gates" CIIT Journal of Programmable Devices and Circuits, vol. 3. No. 6, May 2011 Print: ISSN 0974 – 973X and Online: ISSN 0974 – 9624 "High Performance Electrical and Optical Interconnects", CIIT International Journal of Programmable Device Circuits and Systems, July 2011 "On-Chip Optical Interconnects: A Viable Approach, IJCSET, Feb 2011, Vol 1, Issue	Not known Not known Not known	0.492 0.492 0.492 Not known
28 28 29	Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta	Issue 1, September 2010 Realization of All-optical NOR gate at 10- Gb/s by cascading OR and NOT gates" CIIT Journal of Programmable Devices and Circuits, vol. 3. No. 6, May 2011 Print: ISSN 0974 – 973X and Online: ISSN 0974 – 9624 "High Performance Electrical and Optical Interconnects", CIIT International Journal of Programmable Device Circuits and Systems, July 2011 "On-Chip Optical Interconnects: A Viable Approach, IJCSET, Feb 2011, Vol 1, Issue 1,58-61, ISSN: 2231-0711	Not known Not known Not known	0.492 0.492 0.492 Not known
29 29 30	Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta Dr. Neena Gupta,	Issue 1, September 2010 Realization of All-optical NOR gate at 10- Gb/s by cascading OR and NOT gates" CIIT Journal of Programmable Devices and Circuits, vol. 3. No. 6, May 2011 Print: ISSN 0974 – 973X and Online: ISSN 0974 – 9624 "High Performance Electrical and Optical Interconnects", CIIT International Journal of Programmable Device Circuits and Systems, July 2011 "On-Chip Optical Interconnects: A Viable Approach, IJCSET, Feb 2011, Vol 1, Issue 1,58-61, ISSN: 2231-0711 "Performance Analysis of Pseudo-	Not known Not known Not known	0.492 0.492 0.492 Not known 0.569
28 28 30	Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta Dr. Neena Gupta, Ms.DivyaDhawan	Issue 1, September 2010Realization of All-optical NOR gate at 10-Gb/s by cascading OR and NOT gates" CIITJournal of Programmable Devices andCircuits, vol. 3. No. 6, May 2011 Print: ISSN0974 – 973X and Online: ISSN 0974 – 9624"High Performance Electrical and OpticalInterconnects", CIIT International Journal ofProgrammable Device Circuits and Systems,July 2011"On-Chip Optical Interconnects: A ViableApproach, IJCSET, Feb 2011, Vol 1, Issue1,58-61, ISSN: 2231-0711"Performance Analysis of Pseudo-Orthogonal Codes at 10 Gbps for 16 users in	Not known Not known Not known	0.492 0.492 0.492 Not known 0.569
29 30	Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta Dr. Neena Gupta, Ms.DivyaDhawan	Issue 1, September 2010Realization of All-optical NOR gate at 10-Gb/s by cascading OR and NOT gates" CIITJournal of Programmable Devices andCircuits, vol. 3. No. 6, May 2011 Print: ISSN0974 – 973X and Online: ISSN 0974 – 9624"High Performance Electrical and OpticalInterconnects", CIIT International Journal ofProgrammable Device Circuits and Systems,July 2011"On-Chip Optical Interconnects: A ViableApproach, IJCSET, Feb 2011, Vol 1, Issue1,58-61, ISSN: 2231-0711"Performance Analysis of Pseudo-Orthogonal Codes at 10 Gbps for 16 users inFree Space", CIIT International Journal of	Not known Not known Not known	0.492 0.492 0.492 Not known 0.569
29 30	Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta Jyoti Kedia, Dr. Neena Gupta Dr. Neena Gupta, Ms.DivyaDhawan	Issue 1, September 2010Realization of All-optical NOR gate at 10-Gb/s by cascading OR and NOT gates" CIITJournal of Programmable Devices andCircuits, vol. 3. No. 6, May 2011 Print: ISSN0974 – 973X and Online: ISSN 0974 – 9624"High Performance Electrical and OpticalInterconnects", CIIT International Journal ofProgrammable Device Circuits and Systems,July 2011"On-Chip Optical Interconnects: A ViableApproach, IJCSET, Feb 2011, Vol 1, Issue1,58-61, ISSN: 2231-0711"Performance Analysis of Pseudo-Orthogonal Codes at 10 Gbps for 16 users inFree Space", CIIT International Journal ofNetworking and Communication	Not known Not known Not known	0.492 0.492 0.492 Not known 0.569


		Online: ISSN 0974 – 9616 DOI:NCE052011011 May 2011		
31	Ms.DivyaDhawan, Dr. Neena Gupta	"Performance Improvement of Triple Play Services in FTTH/BPON using OFDM", CIIT International Journal of Networking and Communication Engineering, Vol 3,No 8, June 2011 pp 538-543, ISSN 0974 – 9713 and Online: ISSN 0974 – 9616	Not known	0.569
32	Dr. Neena Gupta, Ms.DivyaDhawan	"Design and Comparative Analysis ,of FSO link by using CW laser" accepted for International Journal of Computer Science and Technology (IJCST), ISSN : 0976 – 8491 (Online), ISSN : 2229 – 4333 (Print), 2011	Not known	Not known
33	Dr. Neena Gupta, Ms.DivyaDhawan	"Design and Comparative Analysis of Free Space link with Optical CDMA Pseudo- orthogonal (PSO) "Flattened Matrix Code" at 10 Gbps", accepted for Publication in International Journal of Mobile and Adhoc Network (IJMAN)ISSN (Online) 2231– 6825, ISSN (Print) 2249-202X, 2011	Not known	Not known
34	Dr. Neena Gupta, Ms.DivyaDhawan	"Implementation of SOA-based All-Optical and and OR Gates at 10-Gb/s". accepted for International Journal of Computer Science and Technology (IJCST), ISSN : 0976 – 8491 (Online), ISSN : 2229 – 4333 (Print), 2011	Not known	Not known
35	Dr. Neena Gupta	 "A Complete survey on Erbium Doped Fiber Amplifier Optimization" The World Congress on Engineering 2011 (WCE 2011) 6-8 July, 2011 at London,U.K.,Paper ID- ICEEE_9 	Not known	Not known
36	Dr. Neena Gupta	 "An Efficient Model of Hybrid Fiber Amplifier for Gain Enhancement" International Conference for Future Challenges in Wireless Communications, Optical Communications and Networks" Nov 27 -29, 2010, Chandigarh. Paper ID: IC07, pp 32-35, Organizer-IEI, Supported By World Federation of Engineering Organizations(WFEO), The Federation of Engineering Institutes of South and Central Asia(FEISCA) 	Not known	Not known
37	Dr. Neena Gupta	"Optimization of Solar Energy Using EDFA" International Conference for Future Challenges in Wireless Communications,	Not known	Not known



38	Dr. Neena Gupta	Optical Communications and Networks" Nov 27 -29, 2010, Chandigarh. Paper ID: IC08, pp 36-39, Organizer-IEI, Supported By World Federation of Engineering Organizations(WFEO), The Federation of Engineering Institutes of South and Central Asia(FEISCA) "Statistical Analysis of Gain Flattening Components for Hybrid Amplifiers"10th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD2010, 6th -9th September, 2010, at Georgia Atlanta(US), Paper ID- MP10, pp- 17-18. Organizer-IEEE Photonics Society,NJ, IEEE Catalog No. CFP10817- PRT, ISBN: 978-1-4244-7015-0, © 2010 IEEE	Not known	Not known
39	Dr. Neena Gupta	"Effective and Efficient Conversion of Solar Energy Using Hybrid Optical Amplifier" 10th International Conference on Clean Energy, ICCE 2010, 15th -17th September, at the Salamis Bay Conti Hotel, Famagusta, N. Cyprus, Paper Reference # 5-16, Organized by; the Energy Research Centre (ERC) of Eastern Mediterranean University, in cooperation with Clean Energy Research Institute (CERI) of University of Miami and International Association for Hydrogen Energy (IAHE)	Not known	Not known
40	Dr. Neena Gupta	"Simulating Gain Optimization with Simulation Hybrid Amplifier Using TFF," accepted for International Conference on Electrical and Communication Engineering, ICECE 2010, at Singapore 25th -27th August, Paper ID Code:SG69560, The Refereed Conference Proceedings is (ISSN: 2070- 3740 and ISSN: 2070-3724) reviewed and indexed by Thomson Reuters ISI, SCIRUS, Google Scholar, Engineering Index (Compendex), EBSCO, GALE, DOAJ, INTUTE, Scientific Commons and Electronic Journals Library), organized by WASET (World Academy of Science, Engineering and Technology)	Not known	Not known
41	Dr. Neena Gupta	"Impact of Length of Erbium on Gain of EDFA" accepted for International	Not known	Not known



		Conference on Communication Systems and Computer Networks, ICCCN 2010,at		
		Singapore 25th -27th August, Paper ID		
		Code:SG69000. The Refereed Conference		
		Proceedings is (ISSN: 2070-3740 and ISSN:		
		2070-3724) reviewed and indexed by		
		Thomson Reuters ISI, SCIRUS, Google		
		Scholar, Engineering Index (Compendex),		
		EBSCO, GALE, DOAJ, INTUTE, Scientific		
		Commons and Electronic Journals Library),		
		organized by WASET (World Academy of		
		Science, Engineering and Technology)		
42	Dr. Neena Gupta,	Implementation of SOA-based All-Optical	Not known	Not known
	Ms.DivyaDhawan	Nand Gate, International Conference on		
		Transparent Optical Networks		
43	Dr. Neena Gupta,	"Design of SOA-based All-Optical Nand	Not known	0.29
	Ms.DivyaDhawan	Gate at 10 Gbps". accepted for International		
		Conference on Wireless Networks and		
		Embedded Systems, WECON 2011 at		
		Chitkara University, Rajpura, Punjab, 18-20		
		July 2011		
44	Dr. Neena Gupta,	"Performance Analysis of Free Space optical	Not known	0.29
	Ms.DivyaDhawan	Systems - A Review", accepted for		
		International Conference on Wireless		
		Networks and Embedded Systems, WECON		
		2011 at Chitkara University, Rajpura,		
		Punjab, 18-20 July 2011		0.0 7
45	Dr. Neena Gupta,	"Parameters Affecting Free Space Optics	Not known	0.97
	Ms.DivyaDhawan	System", accepted in National Conference on		
		VLSI, Embedded Systems, Signal Processing		
		and Communication Technologies		
10	De Name Canto	(NCVESCOM), Chennal, April 7-8, 2011	NT + 1	Nt + 1
46	Dr. Neena Gupta	Book chapter, "Hybrid fiber amplifier"	Not known	Not known
		accepted for publication in the book "optical		
		220.1 by IN TECH Dyblishers (Europe)		
47	Nagandar Shah	250-1 by IN-TECH Publishers (Europe).	Not known	Not known
47	Nagender Snan	Soll Testing using Avr Microcontroller, in the presending of National Conference of	NOT KHOWH	NOT KHOWH
		Enturistic Application in Electronics Enga		
		(NCEAEE 11) organised by institute of		
		(NCFAEE-11) organised by institute of		
		Information Technology and supported by IETE Pupe March 10, 11, 2011, Page 226		
		229		
48	Nagender Shah	"Controlling of Irrigation Valve Through	Not known	Not known
		Mobile Using GSM Modem", in the		
		proceeding of National Conference of		



		Futuristic Application in Electronics Engg. (NCFAEE-11) organised by institute of		
		Information Technology and supported by		
		IETE Pune, March 10-11,2011, Page 1-5		
49	Jasbir Kaur	Comparative Analysis of AWGN channel for	Not known	Not known
		DAB System IJCEA July 2011		
50	Jasbir Kaur	Assessment of Routing Protocols for	Not known	Not known
		wireless sensor network, National conference		
		of emerging trends in Electronics and		
		Comm, engg. April 2011		
51	Jasbir Kaur	Improved LEACH Protocol for wireless	Not known	Not known
		sensor Networks, WICOM 2011		
52	Amita Soni	"Error probability of linear and Adaptive	Not known	Not known
		linear Multiuser detection", Journal of		
		information and communication		
		Technologies.		
53	Harlal Singh Mali, A.	Optimum selection of abrasive flow	Not known	1.068
	Manna	machining conditions during fine finishing of		
		A1/15wt% SiC-MMC using Taguchi		
		method. International Journal of Advanced		
		Manufacturing Technology; Volume 50,		
		2010, PP.1013-1024		
54	A. Manna, S.M. Salodkar	FNN based on-line monitoring of flank wear	Not known	0.45
		during turning of En-31 steel International		
		Journal of Machining and Machinability of		
		Materials; Vol.8, Nos. 1/2; 2010; PP.76-86		
55	A. Manna, P.B.	Experimental study on processing of A1-	Not known	0.968
	Mahapatra	A1 ₂ O ₃ /Gr _p -MMC by liquid stirring Journal		
		of Composite Materials; Vol. 44, No. 25,		
		2010, PP.3069-3079.		
		(doi:10.1177/0021998310366362)		0.44
56	Alakesh Manna,	Micro Machining of nonconductive Al_2O_3	Not known	0.41
	Amandeep Kundal	ceramic on developed I W-ECSM setup.		
		International Journal of Manufacturing,		
		Materials and Mechanical Engineering; vol.		
57	D.P. Projanati and D.P.	1(2), 2011, FF. 40-33 Economical Comparison of proposed V short	Not known	0.83
57	D.N. Flajapati, allu F.D. Mahanatra	with MEWMA Chart" International Journal	INOU KHOWH	0.05
		of Quality and Reliability Management Vol		
		27 No 4 nn 475-485 Emerald publication		
		11K 2010		
58	D R Prajanati	A new approach to monitor the process	Not known	0.857
	2. 10. 1 Iujupuu	dispersion". International Journal of		0.007
		Productivity and Quality Management		
		(IJPOM), Vol. 6, No. 4. pp. 518-519.		
		· · · · · · · · · · · · · · · · · · ·		



		Inderscience Publication, USA		
59	D. R. Prajapati	A new approach to monitor the process dispression" International Journal of Quality and Reliability Management, Vol. 28, Issue 3, pp.280-297, Emerald publication, UK	Not known	0.83
60	Sushil Kumar, P.S. Satsangi and D.R Prajapati	"Optimization of green sand casting process parameters of a foundry by using Taguchi's method". International Journal of Advanced Manufacturing Technology, Vol. 55, pp. 23- 24, Springer Publication	Not known	1.06
61	Sushil Kumar, D.R. Prajapati and P.S. Satsangi	"Design for six sigma to optimize the process parameters of a foundry". International Journal of Productivity and Quality Management (IJPQM), Vol. 8, No. 3, pp. 333-355, Inderscience Publication, USA	Not known	0.857
62	Dr. Uma Batra	"Sol - gel synthesis of pure and crystalline nano β -TCP powder", International Conference on Polymer Science and Engineering: Emerging Dimensions 'PSE- 2010', 26-27 Nov. 2010.	Not known	Not known
63	Dr. Uma Batra	Uma Batra, 'Failure Analysis of Steam Turbine Rotor Disk' in Journal of Failure Analysis and Prevention : Volume 10, Issue 3 (2010), Page 178. (ISSN: 15477029).	Not known	Not known
64	Dr. Uma Batra	Seema Kapoor, Uma Batra, "Hydroxyapatite nanopowder synthesis and study of its thermal and structural behavior", presented in International Conference on Polymer science and Engineering: Emerging Dimensions 'PSE-2010', Nov. 26-27, 2010 organized by University Institute of Chemical Engineering and Technology, Panjab University	Not known	Not known
65	Dr. Uma Batra	Uma Batra, Seema Kapoor, J D Sharma, "Nano-Hydroxyapatite/Fluoridated and Unfluoridated Bioactive Glass Composites: Structural Analysis and Bioactivity Evaluation, International conference on Advances in condensed and nano materials	Not known	Not known



		(ICANM-2011)" at Panjab University, February 22-26, 2011 Chandigarh.		
66	Dr. Uma Batra	J. D. Sharma and Uma Batra, "Retained Austenite in Cu-Ni-Mo based ADI in relation to wear characteristics", proceedings 48 th National Metallurgist Day and 64 th Annual Technical meeting held on 14-16 Nov., 2010 at National Science Complex, Indian Institute of Science, Bangalore organized by Indian Institute of Metals.	Not known	Not known
67	Dr. Uma Batra	J D Sharma, Uma Batra, Seema kapoor," N Improvement of sintering kinetics and densification of β- TCP ceramic, Prof Ram Chand Paul International Conference on emerging trends in chemistry organized by Panjab University, Chandigarh, February 11- 12' 2011.		Not known
68	Dr. Uma Batra	Uma Batra, Seema Kapoor, Physico- chemical and In-vitro Biological Properties of Zinc Doped Hydroxyapatite Nano Powders, ICMAT11, International Conference on Materials for Advanced Technology, Suntec, Singapore, 26 th June to 1 st July' 2011.	Not known	Not known
69	Dr. Uma Batra	Uma Batra and J D Sharma, "Wear Behavior of Cu Alloyed Austemepered Ductile Iron" Symposium: Processing, Microstructure and Properties of Cast Irons and Cast and Forged Specialty Steels, Materials Science and Technology 2011,organised by ASM,ACER, ISandT.	Not known	Not known
70	Dr. Uma Batra	Uma Batra, Seema Kapoor, Suchita Kohli, "Characterization and structural analysis of Zn-substituted Nano hydroxyapatite" Symposium: Next Generation Biomaterials, Materials Science and Technology 2011,organised by ASM,ACER, ISandT.	Not known	Not known
71	Prof. P Thareja	"India's Skill Development National Mission Progress", IFHE DIGEST, International Federation of Hospital Engineers, 2011 (Dec/Jan 2011).	Not known	Not known
72	Prof. P Thareja	"See (You succeed)–Strategise", Energise (The) Entreprise Quality World, Vol VIII, Sep 2010.	Not known	Not known



73	Prof. P Thareja	"Value stream mapping in aid of Lean Production in Automotive industry", 8th International conference on Manufacturing Research, University of Durham, UK, 16 Sep. 2010	Not known	Not known
74	Prof. P Thareja	Atul Vats and Priyavrat Thareja, Lining Pains and lance Strains - A Case Study to Competing Productivity, Journal of Materials and Metallurgical Engineering, Volume 1, Issue 2, June, 2011, Pages 9-20.	Not known	Not known
75	Prof. P Thareja	Kaur Inderpreet, Kumar Shilpi, Thareja P, (2010), "Impact of Attendance On Performance Of students using ANOVA, International Journal of Systemics, Cybernetics and Informatics (ISSN 0973- 4864), # APR10-06,	Not known	Not known
76	Prof. P Thareja	Thareja P., Jayjee Gagandeep Kaur, Dhawan Isha, Singla Preety, (2011) Comparative Analysis of PowerPoint and Blackboard Teaching Methodologies, Current Trends in Information Technology, Volume 1, Issue 1, May, 2011, Pages 9-16	Not known	Not known
77	Prof. P Thareja	Amrinder Chahal, Thareja Priyavrat, , Avtar Singh, (2010), Managing Class Room Quality Better - A Journey THRU QFD , Quality World, Vol IX, No 1, Jan 2011 also available at http://papers.ssrn.com.	Not known	Not known
78	Prof. P Thareja	Thareja Priyavrat and Sanjay Kumar Kaushik (2010), 'Vsm In Aid Of Lean Production In Automotive Industry-A Case Study' Proceedings of the 8th International Conference on Manufacturing Research ICMR 2010- Advances in Manufacturing Technology XXIV (Ed Professor V I Vitanov and Prof D Harrison).	Not known	Not known
79	Prof. P Thareja	Thareja Priyavrat, D D Sharma, P B Mahapatra, Holean Education- A paradigm for Thee, Omniscience, Volume 1, Issue 1, February, 2011, 1-21pp	Not known	Not known
80	Prof. P Thareja	Thareja Priyavrat (2010), See You Succeed- Strategise, Energise (The) EntrepriseQuality World, Vol VIII, No 9, Sept 2010	Not known	Not known
81	Prof. P Thareja	P. Thareja: Member of the SG (writing Group), ANSI/ISO/ASQ Z1.11- 200X; AMERICAN NATIONAL STandARD,	Not known	Not known



		QUALITY MANAGEMENT SYSTEM		
		STandARDS—REQUIRMENTS FOR		
		EDUCATION ORGANIZATIONS		
		(American Society for Quality Standards		
		Committee).		
82	Prof. P Thareja	Mehta J.C., P. Thareja, "India's skill	Not known	Not known
		development NATIONAL mission		
		progress", IFHE DIGEST, International		
		Federation of Hospital Engineers, 2011		
83	Prof. P Thareja	Thareja Priyavrat 'See (You Succeed) -	Not known	Not known
		Strategise, Energise (The) Entreprise		
		Quality World, Vol VIII, No 9, Sept 2010		
84	Prof. P Thareja	Thareja P (2010) A Total Quality	Not known	Not known
		Organization Thro' People, "Investing in a		
		People's Mould)" (Part 30) FOUNDRY, A		
		Journal of Progressive Metal Casters, Vol.		
		xxii, No. 6, issue 132, Nov/Dec 2010, pp37-		
		44		
85	Prof. P Thareja	Thareja P (2010) A Total Quality	Not known	Not known
		Organization Thro' People, "Let's Set-up,		
		Execute, Transform " (Part 29) FOUNDRY,		
		A Journal of Progressive Metal Casters, Vol		
		xxii, No. 5, issue 131, Sept/Oct 2010		
86	Prof. P Thareja	Thareja Priyavrat, (2011), 'Consulting the	Not known	Not known
		Management For Man2metamorphosis',		
		Consulting Ahead (The Journal of		
		Consultancy Development centre), Vol 5		
		Issue 1, January 2011 pp 49-58.		
87	Prof. P Thareja	Thareja Priyavrat (2010), Recasting TKSL in	Not known	Not known
		a Sound Mould-The Road Map to a		
		Foundry's Revival – Prognosis of a		
		Recouped Unit, FOUNDRY, A Journal of		
		Progressive Metal Casters, Vol. xxii, No. 6,		
		issue 132, Nov/Dec 2010, pp 53-57		
88	Prof. P Thareja	Sharma Atul, Thareja Priyavrat (2011)	Not known	Not known
		Journal of Production Research and		
		Management, Volume 1, Issue 1, February,		
		2011, Pages pp 1-18		
89	Prof. P Thareja	Minor Scandium - Zirconium Impacts on	Not known	Not known
		Aluminum-6 Magnesium Cast Alloys,		
		Journal of Materials and Metallurgical		
		Engineering, Vol. 1, No. 1, pp. 25-34,		
		February 2011, Priyavrat Thareja and Malay		
		K. Banerjee.		
90	Prof. P Thareja	Trusting on the Soft Global Platform - A	Not known	Not known



		Functional Imperative Mannu Thareja and		
		Priyavrat Thareja Wipro Technologies Ltd		
		and PEC University of Technology		
		OmniScience: A Multi-disciplinary Journal,		
		Vol. 1, No. 1, pp. 25-32, February 201.1		
91	Prof. P Thareia	Thareia P. Sharma DD. Mahapatra PB.	Not known	Not known
		(2011) Holean Education - The Paradigm for	1.000 1110 0.11	
		Thee OmniScience: A Multi-disciplinary		
		Journal Vol 1 No 1 pp 1-21 February		
		2011.		
92	Prof. P Thareja	Thareja P, Sharma DD, Mahapatra PB,	Not known	Not known
		(2011), Total Quality Management – A		
		Developmental Perspective, Journal of		
		Production Research and Management		
		Volume 1, Issue 1, February, 2011, Pages		
		pp 34-52.		
93	Prof. P Thareja	Thareja P (2011) "A Total Quality	Not known	Not known
		Organization Thro' People, (Part 33) Fine		
		Fiver to Jap's Fibre" FOUNDRY, A		
		Journal of Progressive Metal Casters, Vol.		
		xx111, No. 3, 1ssue 135, May / Jun. 2011.		
94	Prof. P Thareja	Thareja P (2011) "A Total Quality	Not known	Not known
		Organization Thro' People, (Part 31), IFC is		
		the way" FOUNDRY, A Journal of		
		Progressive Metal Casters, Vol. xxiii, No. 1,		
		issue 133, Jan / Feb. 2011		
95	Prof. P Thareja	Thareja Priyavrat, Amrinder Chahal, Avtar	Not known	Not known
		Singh, (2010), Managing Class Room		
		Quality Better - A Journey THRU QFD,		
		Quality World, Vol IX, No 1, Jan 2011		
96	Prof. P Thareja	Thareja Priyavrat, Thareja Mannu (2010),	Not known	Not known
		Men who Changed the Quality World,		
		Quality World, Vol VIII, No 12, Dec 2010.		
97	Prof. P Thareja	"Consulting the Management for	Not known	Not known
		Man2metamorphosis", The Journal of		
		consultancy development centre, Vol. 5,		
		Issue 1, Jan 2011		
98	Prof. P Thareja	Thareja P, A Total Quality Organization	Not known	Not known
		Thro' People, (Part 34) Total Productive		
		Maintenance of people, FOUNDRY, A		
		Journal of Progressive Metal Casters, Vol.		
		xxiii, No. 4, issue 136, Jul / Aug. 2011.		
99	Prof. P Thareja	Thareja P A Total Quality Organization	Not known	Not known
		Thro' People, ". 'as sets' of Strategy,		
		Enterprise and Treats" (Part 28) FOUNDRY,		



		A Journal of Progressive Metal Casters, Vol.		
		xxii, No. 4, , issue 130, July/Aug 2010		
100	Prof. P Thareja	Thareja P A Total Quality Organization	Not known	Not known
		Thro' People (Part 32) Commonsense		
		Alignment to Culture FOUNDRY, A Journal		
		of Progressive Metal Casters, Vol. xxiii, No.		
		2, issue 134, Mar / Apr. 2011		
101	Prof. P Thareja	Thareja P, (2010) A Total Quality	Not known	Not known
	5	Organization Through People: (Part 28) As		
		Sets of Strategy Enterprise and Treats		
		FOUNDRY, A Journal of Progressive Metal		
		Casters, Vol. xxii, No. 4, issue 130, Jul/Aug		
		2010, pp 73-81.		
102	Prof. P Thareia	Thareia Privavrat, Amrinder Chahal, Avtar	Not known	Not known
	5	Singh, (2010), Managing Class Room		
		Quality Better - A Journey THRU OFD .		
		Ouality World, Vol IX, No 1, Jan 2011 also		
		available http://papers.ssrn.com.		
103	Prof. P Thareia	Thareja P 'Inculcating The Necessary	Not known	Not known
		Wisdom About Environment Part-I Through		
		Ouality Pedagogy' proceedings of National		
		Seminar On Environmental Management In		
		Metallurgical Industries Emmi-2010		
		March 15-16, 2010, Dept Of Metallurgical		
		Engineering A Centre Of Advanced Study.		
		Institute Of Technology Banaras Hindu		
		University, Varanasi-221005)		
104	Prof. P Thareja	Priyavrat Thareja, (2010), Holean Education	Not known	Not known
	5	– A Roadmap To Sustainable Education,		
		presented at 8th National Conference on		
		Sustainable Development Role of Engineers		
		and Technologists, New Delhi, 29th Nov		
		2010		
105	Prof. P Thareja	"The Failing Entrepreneurs are best prepared	Not known	Not known
		in Professional colleges", 17th EDIC		
		National Conference on Entrepreneurial		
		Innovations: case studies on Entrepreneurs,		
		Incubators Incubatees and Parks, NITTTR,		
		Chandigarh, 9-10th Nov. 2010.		
106	Prof. J. D. Sharma	J.D. Sharma and Uma Batra, "Retained	Not known	Not known
		Austenite in Cu-Ni-Mo based ADI in relation		
		to wear characteristics", proceedings 48th		
		National Metallurgist Day and 64th Annual		
		Technical meeting held on 14-16 Nov, 2010		
		at National Science Complex, Indian		
		Institute of Science, Bangalore organized by		



		Indian Institute of Metals.		
107	Prof. J. D. Sharma	J D Sharma, Uma Batra, Seema Kapoor,"	Not known	Not known
		Improvement of sintering kinetics and		
		densification of β - TCP ceramic, Prof Ram		
		Chand Paul International Conference on		
		emerging trends in chemistry organized by		
		Panjab University, Chandigarh, February 11-		
		12' 2011.		
108	Prof. J. D. Sharma	Uma Batra and J D Sharma, "Wear Behavior	Not known	Not known
		of Cu Alloyed Austemepered Ductile Iron"		
		Symposium: Processing, Microstructure and		
		Properties of Cast Irons and Cast and		
		Forged Specialty Steels, Materials Science		
		and Technology 2011,organised by		
		ASM,ACER, ISandT.		
109	Dr. Mamta Sharma	"TEMPOS based humidity sensor: Neural	Not known	Not known
		Network approach", International conference		
		on next generation communication and		
		computing systems (ICNGC-10), Dec. 25-		
		26, 2010.		

15. Honors/Awards of the Faculty: National and International - NIL



S.No	Department	Type of Activity Carried out	Gross Amount (Rs.)
1	Applied Science	Testing & Consultancy	Rs. 3,09,288
2	Civil Engineering	Testing & Consultancy	Rs. 86,74,416
3	Director Office	Consultancy	Rs. 9,46,466
4	Electrical Engineering	Consultancy	Rs. 12,000
	Materials and		Rs. 51,147
5	Metallurgical Engineering	Consultancy	
6	Mechanical Engineering	Consultancy	Rs. 1,85,066

16. Internal Resources Generated

17. Details of departments getting Assistance/Recognition under SAP, COSIST (ASSIST)/DST, FIST, and other programmes: NIL



18. Community	Services
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S. No.	Faculty and Department	Type of Service	Community Benefited	Agency/Department Involved
1.	NSS and Applied Science Department	PEC-Shiksha Pariyojna	1. Underprivileged school students	Education Department, U.T. Chandigarh
2	NSS	Blood Donation Camp Twice in a Year	 Thalassemic patients, Accident Victims, Anybody in need of emergency blood supply 	PGIMER,Chandigarh Rotary blood Bank Society
3	NSS	Tree Plantation Program in PEC Campus	1. People in the PEC Campus	Forest Department, U.T. Chandigarh
4	NSS	Training program for students for entrepreneurship project	 People in the PEC Campus Students volunteering for the program 	Commonwealth, Niesbud, NSS-PEC
5.	NSS	Workshop coat stitching contract to Janta Colony Women Self Help Group	 Students , as they get workshop coats at Cheaper prices than market, Janta Colony Women as they get employment 	PEC(Janta Colony is an adopted village of PEC nearby campus.)
6	NSS	Pickle Preperation and selling in Chandigarh Self Help Group	 Students, as they learn skills of making pickle and door to door marketing People of Chandigarh, as they get fresh and hygienic pickle at cheeper rates 	NSS,PEC
7	NSS	Community Policing	 People of Chandigarh , as they come in contact with police directly and learn measures to keep their household safe 	Chandigarh Police , Chandigarh
8.	Institute	Open House	Students of various government an private schools	PEC



19. Teachers and Officers Newly Recruited :

Contractual Faculty:12 Re-employed: 5

20. Teaching and Non-Teaching Staff Ratio from August 2010-July 2011

Group Name	Present Post Filled
А	126
С	187
D	117
Ratio	1:2.41



21. Improvement in Library Services

Computerization of Library	Availability of Dissertation Taken Online/Title	Availability of books by Accession No.
Completed	NIL	 Details up till date 31.12.2011 1. Circulation section books (from Acc. No. 1 to 91,210) 2. Book Bank (from Acc. No. 1 to 3,689) 3. Hindi Punjabi Books (from Acc. O. 1 to 1,005)

22. New Books/Journals Subscribed and Their Value

S.	New Books Subscribed	Year 2009 – 2010		Year 2010 -2011	
No.	Hard Copy/E-Book	No. of Author		No. of Copies	Author
		Copies			
1	Hard copies	1461	400	2452	362
		(Expenditure		(Expenditure	
		Rs. 3,25856)		Rs. 6,05,878)	

S.No.	New Journals Subscribed	Year 20	009 - 2010	Year 202	10 -2011
		No. of	Expenditure	No. of	Expenditure
		Copies	(in Rs.)	Copies	(in Rs.)
1.	Hard Copies				
	a) Printed books	2239	5,99,963/-	2670	6,05,878/-
	b) Printed Journals	46	9,68,080/-	72	19,01,980/-
2.					
	Online				
	E-Journals (INDEST)	6	9,47,961/-	6 databases	19,28,770/-
		databases			
3.	NPTEL Courses (Including			Server-1	3,04,415/-
	server, computers and			Computers-2	
	printers)			Printers-3	
	1 /				



23. Courses In Which Student Assessment of Teachers Is Introduced and The Action Taken on Student Feedback:

A feedback report is taken from all the UG and PG students for all the courses after the end of each semester and the same is consolidated and analysed. The report on feedback is provided to all the faculty members through Head of Department for further improvements, if any, and retrospection of the faculty concerned. (Sample proforma is attached.)

PEC Chandigarh Course Evaluation-Students' Response

Fill up one OMR sheet for each course you are registered for this semester. Please be careful in filling out the Course number and section number. For each question from 1 to 20, there are five variations available. The endpoints 1 and 5 have been explained in the question itself.

11. Did the instructor encourage discussion/

Basic Information

questions in class? 1 for no; 5 for definitely yes Course number Block. 12. Did the instructor use board and other Section number Block teaching aids effectively? 1 for no; 5 for definitely yes About the Course: 1. The objectives of the course were made clear: 13. Was the Instructor approachable outside the Circle 1 for not at all, 5 for definite yes: class? 1 for no; 5 for definitely yes 2. Level at which the course was taught: 1 for too 14. How far did the instructor relate the low; 3 for appropriate; 5 for too high: theoretical concepts with practical applications? 1 for little, 5 for very much 3. Was the homework adequate?: 1 for too little; 3 for appropriate; 5 for too much: 4 Were the tests/exams conducted at the appropriate level of difficulty? 1 for too easy; 3 for appropriate; 5 for too tough: About the Tutor: (fill up only if there were 5. Do you believe you learnt something useful in the course? 1 for no; 5 for definitely yes separately scheduled tutorials) 6. Did you enjoy learning in this course? 1 to 5 in 15: Were the tutorials/lab helpful? 1 to 5 in increasing level increasing level 7 Was the prescribed textbook helpful? 1 for no; 5 16: Did the tutor encourage discussion in the for definitely yes class? 1 for no; 5 for definitely yes About the Instructor 17. Did the tutor use board effectively? 1 for no; 5 for definitely yes 18. Was the tutor punctual in starting the class? 1 for no; 5 for definitely yes 19. Did the tutor hold all the scheduled classes? 8. Did the Instructor come well prepared to the 1 for more than 4 classes missed; 3 for 2 class? 1 for no; 5 for definitely yes classes missed, 5 for none missed. 9. Did the instructor introduce a new topic properly? 1 for no; 5 for definitely yes 20. Was the tutor approachable outside the class? 1 for no; 5 for definitely yes 10. Was the Instructor punctual in starting the class? 1 for no; 5 for definitely yes



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My assessment of the Instructor

Instructor's Name

Q. No.	Response					
8	1	2	3	4	(5)	
9	1	2	3	4	(5)	
10	1	2	3	4	5	
11.	1	2	3	4	5	
12	1	2	3	4	(5)	
13	1	2	3	4	5	
14	1	2	3	4	5	

My assessment of the Tutor

Tutor's Name

Q. No.	Response					
15	1	2	3	4	(5)	
16	1	2	3	4	(5)	
17	Ð	2	3	4	5	
18	0	2	3	4	5	
19	0	2	3	4	(5)	
20		2	3	4	(5)	

PEC University of Technology, Chandigarh



24. Feedback From Stakeholders

a) Students	Feedback from students is collected every semester. At the end of the BE programme interaction is held with all outgoing students in small batches at the department level to know their life in the campus.
	A proforma for specific feed-back on curriculum is also got filled up.
b) Alumni	An alumni meet is organized every year at the institute level. And department level interactions are also organized to receive feedback.
c) Employer	Feedback from prospective employers is obtained by the Training & Placement office when the companies visit the institute for placements.
d) Community	Directions of Chandigarh administration are followed.
e) Academic peers	Workshops/Seminars/Conferences attended and organized.
f) Industry	Industry experts are invited to the campus from time to time. Two persons from industry are regular members of the Senate.
g) Parents	Parents can meet the Dean Academic affairs to provide any feedback.



25. Unit Cost of Education - Per Student Cost

Total No. of students: 2060

Total Expenditure for the year 2010-2011 : Rs. 2887.50 Lacs

Per student cost: $2887.50 \div 2060 = \text{Rs. } 1.40 \text{ Lacs}$



26. Computerization of Administration and the Process of Admissions and Examination Results, Issue of Certificates

The process of admissions is computerized to the extent that the admission procedure to B.E. Programme is partially on line. The examination results are also computerized.



27. Increase in the Infrastructural Facilities

In the financial year 2010-11, the following works were taken up by the engineering department:

- 1. Replacement of burnt out L.T. main cable from transformer to L.T. panel, leveling of 2 nos 750 KVA transformer checking and repair of protection system and replacement of batteries in charge in 11KV indoor substation in PEC.
- 2. Retile terracing to roof of H. No. 211-218 and 219-243.
- 3. Renovation of toilets and bathrooms in Gymnasium and Squash Court.
- 4. Retile terracing to roof of H. No. 31A to 34A.
- 5. Retile terracing to roof of H. No. 401-423.
- 6. Retile terracing to roof of H. No. 701-702.
- 7. Re-construction/Repair of boundary wall in PEC.
- 8. Construction of RCC wall and providing of barbed wire fencing on the top of wall of PEC.
- 9. Renovation of Faculty rooms of Mechanical Engg. Deptt.
- 10. Renovation of Faculty rooms of Electrical Engg. Deptt.
- 11. Providing AC points, steel shutter, CFL fitting and replacement of main switches etc. in CAD/CAM lab and new computer lab in Production Engg. Deptt.
- 12. Special repair of street lights and replacement of main cable leads in PEC.
- 13. Providing Aluminium partition in Physics lab.
- 14. Providing three phase power supply in for 4 Nos. motors and 4 Nos. 2x36 Wat. CFL fitting in Roto Dynamic Machine lab.

The proposed Master Plan for the expansion of university campus in the next year is as under:

Hostel expansion (~Rs.1.00 crore)

New Academic Block (~Rs.5.00 crore)

Synergy Block (~Rs.5.00 crore)



28. Technology Upgradation

The technology upgradation in the various sections like Engg. Departments, Computer Centre, Library and Auditorium is summarized as below:-

S.No.	Department	Lab development	New	Status
			Equipments/Software	
			purchased	
		Physics Lab	Michalson interferometer	Working
			(1)	() offining
			Optical fiber Kit (2)	Working
			Computers (2)	Working
		Chemistry Lab	PH Meter (02 Nos)	Working
			Conductivity meter and	Working
1.	Applied Science		Bridge (02 Nos)	
	Deptt.		HPLC Columns	Working
			Vacuum Pump	Working
			Electronic Balance (01	Working
			Nos)	
		State of the Art :	FSAR with Hardware	Working
		Password Recovery	Accelerator, Password	
		Facility	Recovery Toolkit and	
		Equipment/Software	Distributed Network	
			Attack and other utilities,	
			Access Data Rainbow	
			Tables	
2.	Computer Science	High Performance	HPC server capable of	In progress
	Deptt.	Computing Lab	2GPU, Thin Clients (10),	
			Rack Based Server,	
			CUDA Compilers and	
			Librares	*** 1.
		Computer Vision Lab	Network Cameras AXIS	Working
			207W, Axis 211W	XX 7 1 *
3.	Electrical Engg.	Advanced Control	New Lab	Working
4	Deptt.	System Desia Electronica	1 Digital Stars as	Worling
4.	Electronics and	Basic Electronics	1. Digital Storage	working
	Communication		2 Hand hold	
	Engineering		2. Hand herd Multimeters	
	Linginicering	Microprocessor Lab	$1 \text{ MF}_\text{DVNA 85}$	Working
			$\begin{bmatrix} 1 & 101 \\ 1 & 0 \end{bmatrix} = \begin{bmatrix} 1 & 101 \\ 1 & 0 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix}$	WORKINg
			2 MF-II C-V2	
			3 EASY 8051	
			Development system	
5.	Mechanical Engg.	CAD/CAM Lab	H.P. Server	Working



	Deptt.	-do-	PCs shared along	Working
	1		Network together in local	6
			LAN environment	
		-do-	COMSOL, Intellesuite	Working
		Vibration Lab	Computerized	Working
			electrodynamic vibration	
			shaker	
		-do-	MR fluid water box, MR	Working
			damper	
6.	Materials and	Establishment of	pH meter, magnetic	Working
	Metallurgical	Biomaterials	stirrer, Double	
	Engg. Deptt.	laboratory	Distillator, incubator,	
			oven, spin coater with	
			vacuum unit,	
			ultrasonicator, furnace,	
			analytical balance	
		Upgradation of	Software – Cast flow,	Working
		CAMED lab	Opticast and Soft cast	
7	Production Engg.	CAD	CATIA Purchased	Process for
	Deptt.			working
8	Information	Computer Vision Lab.	Stereo Vision Camera	Working
	Technology			
	Deptt.			

Computer Center

Software purchases	Microsoft Campus agreement,
	Trend Micro Antiviruser 5
Equipments	27 Desktop, 1-Laser Printer, Server HP DL-350
Band width	8Mbps and 12 Mbps from NKN

Library

S.No.	New Equipments/Software purchased	Status
1.	NPTEL courses (2010-11)	Working
2.	Computers -3	Working
3.	Printers -2	Working
4.	Server-1	Working

Level of Library Automation	Medium		
	Hard copy	Online	
Journals magazines purchased	72 (2010-11)	1100 (2010-11)	



Auditorium

New equipments purchased in August -2010 to July 2011	quantity
Split AC LG (1.5 ton)	10 Nos
Fire Extinguishers BC (Gas Type) 4 ^{1/2} KG	04 Nos

Class room development: All the Lecture halls are equipped with LCD projectors.



29. Computer and internet access and training to teachers, non-teaching staff and students

Internet access

Bandwidth available	:	16 MBPS and 12 MBPS through NKN
How many hotspots are in college	:	50 approximate
How many server	:	15
List of software loaded on server	:	Email, WEB, DNS, DHCP, ACADEMIA, Robot Studio. MatLab, Trendmicro, Ciscoworks, Estinet, Cyberoam, Sonic point etc.
Battery backup (hrs.)	:	8 hours
Size of mail box	:	Faculty : 100MB Students: 2GB

Training to Teachers/Staff is provided by allowing them to attend short term courses and providing financial assistance for the same.

PEC is a part of the National Knowledge Network. The NKN is a state-of-the-art multi-gigabit pan-India network for providing a unified high speed network backbone for all knowledge related institutions in the country. The purpose of such a knowledge network goes to the very core of the country's quest for building quality institutions with requisite research facilities and creating a pool of highly trained professionals. The NKN will enable scientists, researchers and students from different backgrounds and diverse geographies to work closely for advancing human development in critical and emerging areas.



30. Financial Aid to Students

Sr.	Event	Agency providing the financial aid	Amount (Rs.)
No.			
1.	Philips Innovation Projects –	Philips India Ltd.	2,56,000.00
	III		
2.	NASA Great Moon Buggy	Chief Minister Relief Fund Punjab	5,00,000.00
	Race April 2011 (USA)	Department of Science and Technology	1,60,000.00
		Chandigarh Administration	
		PEC University of Technology	1,50,000.00
		Private Sponsors	2,52,500.00
			10,62,500.00
3.	Scholarship to M.Tech. and	MHRD	8000 P.M. /student
	Ph.D students admitted with		
	GATE		14000 P.M./student
4.	Competition	DST, PEC and Pvt. Sponsors	Approx. 13 lakhs
5.	Scholarship (details in the	PEC University of Technology	Approx. 1,50,00,000
	next table)		
6.	Sports	PEC University of Technology	38,00,000
7.	Clubs	PEC University of Technology	16,50,000
8.	Paper Publication, Souvenir,	PEC University of Technology	5,50,000
	Magazines, other students		
	related publications		
9.	PEC Fest	PEC University of Technology	6,00,000
10.	Tech Fest	PEC University of Technology	5,00,000
11.	Technical Societies	PEC University of Technology	3,00,000
12.	TandPO	PEC University of Technology	11,00,000
13.	Medical(Dispensary)	PEC University of Technology	5,50,000
14.	Financial Assistance for	PEC University of Technology	20,00,000
	student projects		
15.	Financial Assistance for	PEC University of Technology	6,00,000
	students attending		
	conferences(National and		
	International)		

Earn while learn programme (No. of students) : 01



Details of Scholarship during academic year 2010-11

YEAR	TUITION FEE	HALF FREE SHIP	MERIT SCHOLARSHIPS	FEE WAIVER FOR WOMEN STUDENTS	BE-1 ST YEAR PHYSICAL LY HANDICAP PED STUDENTS	FEE WAIVER FOR EWS	EXCESS FEE WAIVER	MERIT CUM MEANS	PURELY MEANS	GRAND TOTAL
1 st 2010	RS. 32,500/- PER SEM	64 32,500 * 64 = 20,80,000	9 32,500 * 9 * 2 = 5,85,000	12 32,500 * 12 * 2 = 7,80,000	7 32,500 * 7 * 2 = 4,55,000	18 32,500 * 18 * 2 = 11,70,000	1 32,500 * 1 * 2 = 65,000			51,35,000
2 nd 2009	RS. 25,000/- PER SEM	47 25,000 * 47 = 11,75,000	25 25,000 * 25*2 = 12,50,000						2 25,000 * 2 * 2 = 1,00,000	25,25,000
3 rd 2008	RS. 25,000/- PER SEM	33 25,000 * 33 = 8,25,000	21 25,000 * 21 * 2= 10,50,000					14 25,000 * 14 * 2 = 7,00,000		25,75,000
4 th 2007	RS. 17,500/- PER SEM	50 17,500 * 50 = 8,75,000	23 17,500 * 23 * 2 = 8,05,000					09 17,500 * 9 * 2 = 3,15,000	03 (17,500 * 3 * 2 = 1,05,000	21,00,000
GRAND TOTAL		49,55,000	36,90,000	7,80,000	4,55,000	11,70,000	65,000	10,15,000	2,05,000	1,23,35,000



31. Activities and support from the Alumni Association

Activities and Support from the Alumni Associations:

Alumni of PEC have been contributing in several ways. Some of the areas where the institute receives regular contributions are:

Financial

- Scholarships and Awards

The current scholarships and Awards instituted by various Alumni are tabulated as under:

Award instituted for the Faculty

Sr.	Awarded	Name of	Scholarship/	Number	Award	Name of Donor with	Criteria of Selection
No	by	Award/Scholarship	Award		/Scholarship	contact details	
•					Amount		
1.	PECOSA	Dr D.N Trikha	Award	Two	Rs. 7500/-	Dr D.N Trikha, Alumunus of	To recognize faculty members
		Excellence in			each+Certif	PEC,	of PEC for excellence in
		Research Publication			icate	Q-11,South	research publications through
		Award				City,Gurgaon,12200	the papers published in
							refereed international journals
							that have resulted from
							research done at PEC

Award instituted for the Students

Sr. No	Awarded by	Name of Award/Scholarship	Scholarship/ Award	Number	Award /Scholarship Amount	Name of Donor with contact details	Criteria of Selection
1.	PALS and PECOSA	PECOSA/PALS	Scholarship	Nine	Rs. 5000/- each	PALS Sunil Suri, Treasurer surisunil@aol.com Kulwant S Grewal President kalwant@ieee.org kgrewal@telcordia.com	Toppers of all branches on the basis of CUMULATIVE RESULTS OF 6 th semester
2	PECOSA	GOEL FELLOWSHIP	Scholarship	Three	Rs. 5000/- each	O.P. Goel (1956-Civil)	Students from BHATINDA/MANSA DISTT, PUNJAB who score maximum marks in CIVIL Engineering of 1 st , 2 nd , and 3 rd year based on 2 nd , 4 th and 6 th semester results
3	PECOSA	PECOSA SYDNEY SCHOLARSHIPS	Award	Two	Rs. 5000/- each	Gian Banga Australia Gian37@optusnet.com.au Rakesh Mahajan Rakesh.Mahajan@mincom. com	Overall 1 st and 2 nd position holders for Aeronautical and Civil based on cumulative results of 2 nd semester on rotation basis
4	PECOSA	NS ATTRI SCHOLARSHIPS In memory of Shamsher S Attri	Scholarship	Six	Rs.2500/- each	Narinder S Attri-USA narinderattri@aol.com	Toppers of Mechanical and Electrical branches of 1 st , 2 nd , and 3 rd year based on 2 nd , 4 th and 6 th semester results. In case there is a common candidate between PECOSA/PALS and NS ATTRI Scholarships then 2 nd position holders shall be



5	DECOGA		Cababaabaa	True	D- 2500/		eligible
5	PECOSA	-DO-	Scholarship	Two	Rs. 2500/- each	-do-	holders amongst all branches based on 1 st semester results
6	PECOSA	Prem Singh Kadian Memorial Scholarship	Award	Two	Rs. 5000/- each	Mr. Ajay Kadian	Fastest Girl and Boy in PEC on the following criterion : Girl and Boy standing 1 st in 100 meter race at college annual Athletic Meet.
7	PEC	Awtar-Teji Singh Fellowship	Fellowship	One	To cover at a minimum, tuition and fees to pursue graduate level studies at Berkeley	Sh. Awtar Singh	On the basis of merit from admitted graduate students in the Department of Civil and Environmental Engg. in the College of Engineering at the University of California, Berkeley. Fellowship recipients will be graduates of Punjab Engineering College Chandigarh.
8	PEC	MANTEC BRARA AWARD FOR EXCELLENCE IN CREATIVE WRITING and SPORTS	Award	One	6000/- each + certificate	Sh. Arvinder S Brara Mantech Consultants Pvt. Ltd. 805 Vishal Bhawan, 95, Nehru Place 011- 26912435, <u>braraa@mantecconsultants.</u> com ari brara@yahoo.com	To recognize UG students of PEC for excellence in creative writing and sports.

Technical

- Lectures
- Academic Collaborations
- MoUs with industry
- Short Courses, Workshops
- Curriculum Development

Placements

- Internships
- Placements

Social

- Jointly hosting reunions and Alumni Meets
- Career Guidance

Other relevant information



The institute has established an office to exclusively deal with all matters relating to alumni affairs, led by officer –in-charge Alumni affairs under the guidance of Chairman Alumni Affairs. The Alumni office very closely interacts with individuals/groups of alumni and PEC Alumni associations. At present PEC is interacting with following PEC Alumni Associations:

PECOSA

PEC old student Association is an organization for those with a keen interest in PEC, and who wish to keep up to date with institute activities. Following are the Aims and Objects of the association.

- 1) To promote and inspire a feeling of fraternity amongst all the old students.
- 2) To strengthen the link and tie of fellowship amongst the present students, members of the teaching staff of PEC University of Technology and the old students.
- 3) To promote the link and encourage active interest in the progress and welfare of the PEC University of Technology.
- 4) To establish and organize centre at different places for fulfillment of aims and objectives.

PEC-PECOSA Interactions

- PECOSA has been instrumental in channelizing the help offered by various alumnus in the form of scholarships to the tune of Rs. 1.00 lacs to two dozen bright students of PEC every year
- Student Project prizes and funding
- Guest lectures from alumni

PECOBA (Year of Establishment : 1967)

PECOBA, i.e. Punjab Engineering College Chandigarh Old Boys Association, is an Alumni Association of Graduates of Punjab Engineering College Chandigarh and was founded in Delhi in May 1967 by Amarjit Singh Kohli of 1964 Mech passout. Its founder President is A.ArunKumar of 1962 Elect. It has chapters in several towns of India and abroad. PECOBA has organized more than 40 functions in Delhi and one in Karnal in the last 42 years. It published its first Directory of PEC alumni in 1980 listing details of 1953 alumni.

PALS (Year of Establishement : 1996)

An acronym for PEC Alumni Society, are a group of people who share the common bonds of being associated to PEC University of Technolgoy, formally Punjab Engineering College (PEC), either as a student or faculty. The PALS represent over five decades of alumni engaged in many occupations spanning research, education, defense, entertainment, management, finance, entrepreneurship, etc.



PALS aim to assist the PEC alumni in networking for personal and professional growth. Like many non-profit organizations, PALS are dependent on the contributions of the core group and the members of PALS.

32. Activities and support from Parent-Teacher Association: NIL



33. Health services

The institute has a dispensary on campus to meet the first aid and routine medical requirements of the students free of cost. In this dispensary the consultation is also provided to the members of faculty/ staff residing in the campus. A medical officer along with the other supporting staff/ pharmacist, nursing orderly and ward boy are available in the dispensary to attend to the patients. In case of emergency, patients are referred to Government multi speciality Hospital (GMSH) ,Sector -16 or Post Graduate Institute of Medical Education and Research (PGIMER),Sector-12.



34. Performance in sports activities

Following is the list of students who participated in various sports activities in the year 2010-11:

Sr.	Name of the	Sport Activity
No.	student	
1	Munish thakur	1st north zone fencing (sabre event)
		Xviii junior national fencing (sabre event)
		Xxi senior national fencing
2	Tarun bahuguna	Junior under 20 national fencing
		Senior national fencing
3	Prabhjot grewal	All india inter-varsity football
	Gurleen boparai	
	Atinder pal singh	
	Parveen	
	Utsav ragmi	
	Ansh gill	
	Atam parkash	
	Sukrit ranjan	
	Gursimrat singh	
	Harpreet singh	
	Sushil kumar	
	Aviral	
	Devender ahlawat	
	Vikram pandey	
	Harshmeet singh	
	Punit basnet	
	Binod poudel	
	Deepit singh uppal	
4	Ariun gupta	North zone inter-varsity badminton
	Ankit beniwal	······································
	Aman	
	Sourabh	
	Shivam	
	Abhinav kashyap	
5	Sharanga dolev	North zone inter university table tennis
-	Himanshu	······································
	Mahesh chandok	
	Sanal	



6	Amrinder singh Ajay singh verma Ravi kumar jha Sukhchain singh Ajit kumar Sangeet kumar Sumer singh Somvir singh Nitin deswal	North zone intervarsity volleyball
7	Ankit Aman Shivam Deepit Sourabh Swati jha Debarpita sen Vandana Chhaya rajput	Inter engineering deemed university badminton
8	Arpit kothari Sundeep singh Nitin wadhwa Akash garg Tanu singla Ankita kundra Monica deswal Manu jyoti	Inter engineering deemed university chess
9	Nipun sodhi Rajat saini Ajay Keshav jangra Prakhar gupta Nishant dangi Parveen Rohit heera Saurabh chopra Shivam gaur Amandeep singh Sahil Mohit sharma Mankiran singh Siddharth singh Ankit kumar	Inter engineering deemed university cricket



Madhav aggarwal	Inter engineering deemed university lawn tennis
Vaibhav gupta	
Rohan mehra	
Mohak goyal	
Sharanga doley	North zone inter university table tennis
Himanshu	
Mahesh chandok	
Sanal	
Amrinder singh	Inter engineering deemed universities volleyball
Ajay singh verma	
Ravi kumar jha	
Ajit kumar	
Sangeet kumar	
Sumer singh	
Sunil kumar	
Sanchit arora	
Rahul aggarwal	
Munish thakur	All india inter university fencing
Tarun bahuguna	
Gaurav manchanda	
Sukrit ranjan	
Harleen kaur	
	Madhav aggarwal Vaibhav gupta Rohan mehra Mohak goyal Sharanga doley Himanshu Mahesh chandok Sanal Amrinder singh Ajay singh verma Ravi kumar jha Ajit kumar Sangeet kumar Sumer singh Sunil kumar Sanchit arora Rahul aggarwal Munish thakur Tarun bahuguna Gaurav manchanda Sukrit ranjan Harleen kaur



Sr.	Particulars	Incentives
No.		
1	Cash Awards:-	
	i) Best Athlete (Boys) of PEC Annual Athletic Meet	Rs.1800/-
	ii) Best Athlete (Girls) of PEC Annual Athletic Meet	Rs.1800/-
	iii) 2 nd Best Athlete (Boys) of PEC Annual Athletic Meet	Rs.1200/-
	iv) 2 nd Best Athlete (Girls) of PEC Annual Athletic Meet	Rs.900/-
	v) Best March Past Squad during PEC Annual Athletic Meet	Rs.165/-
2	Prem Singh Kadian Memorial Awards instituted by PEC	
	Alumnus Sh. Ajay Kadian through PECOSA:	
	i) Fastest Girl standing 1 st in 100 Meter Race during PEC	Rs.5000/-
	Annual Athletic Meet	
	ii) Fastest Boy standing 1 st in 100 Meter Race during PEC	
	Annual Athletic Meet	
3	Prizes & Certificates:- First, Second and Third Position holders of	
	various PEC Annual Athletic Meet Events	
4	Sports Kit and Track Suits:-Players of all PEC Teams	
5	Advisor's Gold Medal for Best Sportsperson of B.E. Final Year	
	who secured maximum points of sports performance during his	
	stay in PEC for four consecutive years	

35. Incentives to Outstanding Sports persons


36. Student Achievements and Awards

List of students alongwith their Achievements in Cultural/Technical Events outside the institute at National/International level for the session 2010-2011 is as under:

S.	Name of students	Type of	Award	Given
No.		Activity/Achievement	Agency Giving Awarded	Name of Award
1	Darwin Rajpal (4 th yr)	Aerospace Science Meeting	Orlando-Florida	NA
2	Mohit Virmani (4 th yr)	International W3C Workshop	Barcelona- Spain	NA
3	Abhinav Kapur Avneet Hira (2 nd yr) Davis Josaph(2 nd yr) Sudipto Dass(2 nd yr)	National Aerospace Olympiad	Technical Societies	2 nd prize
4	Sneha Aggarwal (4 th yr)	Algorithm Design for Qos	IISc-Bangalore	Patent Filed
5	Abhishek Mehta Abhinav Sharma Naman Kumar Anshul Bansal	Techkriti-2011	IIT-Kanpur	3 rd prize
6	Saurabh Aggarwal Eeshannee Arya Neha Gupta Abhishek Mehta Bhupinder Dangi	Octagon Mission	IIT-Chennai	4 th prize
7	Kaushal Vaishnav (4 th yr) Abhishek Arora (4 th yr) Amandeep Singh (3 rd yr) Rishabjot Singh (3 rd yr) Mohit Bagga (3 rd yr) Ankit Garg (3 rd yr) Navneet Singh (3 rd yr) Abhishek Pathanai (3 rd yr) Harpinder Singh (3 rd yr) Tarun Kumar (3 rd yr) Dheeraj Bhardwaj (3 rd yr) Chandan Gakhar (3 rd yr) Kunal Singhai (3 rd yr) Shubham Aggarwal (3 rd yr)	BAJA SAE INDIA- 2011	SAE	2 ND PRIZE



	Shashank Dua (3 rd yr) Bhavya Kumar Singh (3 rd yr) Sahil Bindlish (3 rd yr) Hemant Gupta (3 rd yr) Nishant Mathur (3 rd yr) Udayan Kabra (3 rd yr) Anmol Shore (2 nd yr) Jagjot Singh Cheema (2 nd yr)			
8	Madhur Popli $(3^{rd} yr)$ Gurjot Singh Bhatia $(3^{rd} yr)$ Sanchit Arora $(3^{rd} yr)$ Yakshu Madaan $(3^{rd} yr)$ Gautam Pundir $(3^{rd} yr)$ Gautam Pundir $(3^{rd} yr)$ Shivam Mittal $(3^{rd} yr)$ Mohit Kataria $(3^{rd} yr)$ Ashish Sodhi $(3^{rd} yr)$ Baibhav Jha $(3^{rd} yr)$ Baibhav Jha $(3^{rd} yr)$ Abinash Tripathi $(3^{rd} yr)$ Jatin Sharma $(3^{rd} yr)$ Kirti Kumar $(3^{rd} yr)$ Ishank Arora $(3^{rd} yr)$ Hitesh Singla $(3^{rd} yr)$ Pulkit Kapoor $(3^{rd} yr)$ Mahesh Mittal $(3^{rd} yr)$ Ratul Arora $(3^{rd} yr)$ Harnoor $(3^{rd} yr)$ Prerit Sood $(3^{rd} yr)$ Shankar $(3^{rd} yr)$	Formula SAE	SAE	Lightest vehicle
9.	Kamal Garg (4 th yr) Amit Kalia Varinder Pal Singh Manish Bharti Anuj Garg (2 nd yr) Jasmine Kaur (2 nd yr)	The Great Moon Buggy Race -2011	NASA-USA	Best International Team
10	Prince Malhotra (4 th yr) Mohit Garg Abhishek Patil Rohan Garg Abhishek Saggar (2 nd yr) Esha Aggarwal (2 nd yr)	The Great Moon Buggy Race -2011	NASA-USA	Best International Team
11	Inderpal Singh Sahil Thapa (4 th yr) Nitin Gandhi (3 rd yr)	Robowars	NIT –Jalandhar	3 rd Prize



12	Rohit Madaan Jaspreet Singh	Robowars	IIT-Bombay	Consolation prize
13	Sonal Gupta (4 th yr)	Line Followers	NSIT-Delhi	2 nd prize
14	Arjun Wadwalkar (4 th yr) Kapileshwar (4 th yr) Sudarshan Boss (4 th yr)	Phillips Innovation Project –II	Phillips	Consolation prize
15	Chintan Kaur (3 rd yr)	IEEE M V Chauhan All India Student Paper Contest - 2010	IEEE	3 rd prize
16	Chintan Kaur (3 rd yr)	International Conference on Communications and Signal Processing (ICCSP)-2011	NIT-Calicut	NA
17	Tejinder Singh Chahal (3 rd Yr)	Solo Singing Competition	IIT Ropar	2 nd Prize
18	Charandeep Singh (2 nd Yr) AnumehaBhasakar (3 rd Yr) KshitizKapur (4 th Yr) RajatMehrotra(4 th Yr)	Fusion Band Competition	IIT- Delhi	2 nd Prize
19	Paras Thakur (2 nd Yr)	Solo Instrumental Competition	IIT- Delhi	3 rd Prize
20	Paras Thakur (2 nd Yr)	Musician Institute	L.A (USA)	Select as a student
21	LakshayaSaini (2 nd Yr) Anoop Grover (2 nd Yr) Danish Aziz (2 nd Yr)	International Conference (CYP Asia Center)	Sri Lanka	Sent Video
22	Ms Puneet Soni(4 th year Metallurgy)	Modern enterprise category	7 th North-West quality award	2 nd Prize
23	Karaninderjeet Singh (4 th Yr) Naresh Kumar (3 rd Yr) Karanpreet Singh (3 rd Yr)	Stage Play- Gadhe Ki Barrat	IIT- Delhi	1 st prize
	Sushant Sharma $(3^{rd} Yr)$ Himak Sharma $(2^{nd} Yr)$ Eshu Sharma $(2^{nd} Yr)$ Ashish Paul $(2^{nd} Yr)$ Nancy Goel $(2^{nd} Yr)$ AjinderKaur $(3^{rd} Yr)$ Harpinderjit Singh $(3^{rd} Yr)$ Yakshu Madaan $(3^{rd} Yr)$			ost
24	HarshitBhamni (4 ^{ur} Yr) Eshu Sharma (2 nd Yr) PankajKaushal (2 nd Yr)	Street Play- Newton kaSanwidhan	IIT-Delhi	1 ^{°°} prize



	Himak Sharma (2 nd Yr)			
	RichaBansal (2 nd Yr)			
	AnubhavAggarwal (2 nd Yr)			
	PriyankBijalwan (2 nd Yr)			
	AshutoshMujaal (2 nd Yr)			
	ManchitwanJauhal (2 nd Yr)			
	AtushBadyal (2 nd Yr)			
	Gurjot Singh (1 st Yr)			
	ChetanKhanna (2ndYr)			
	HimanshuGoyal (1 st Yr)			
25	HarshitBhamni (4 th Yr)	Street Play- Love	IIM-Ahmdabad	Consolation
25	Eshu Sharma (2 nd Yr)	System Dhoka		Prize
	PankajKaushal (2 nd Yr)			
	Himak Sharma (2 nd Yr)			
	RichaBansal (2 nd Yr)			
	AnubhavAggarwal (2 nd Yr)			
	PriyankBijalwan (2 nd Yr)			
	AshutoshMujaal (2 nd Yr)			
	ManchitwanJauhal (2 nd Yr)			
	AtushBadyal (2 nd Yr)			
	Gurjot Singh (1 st Yr)			
	ChetanKhanna (1 st Yr)			
	HimanshuGoyal (1 st Yr)			
	ManchitwanJauhal (2 nd Yr)	Jalsa Street Play	Art Gallery	2 nd Prize
20	Manemetwansaultar (2 11)	Jaisa Succi I lay	rit Gunory,	2 I II20
26	RichaBansal (2 nd Yr)	Competition	Sector-10,	2 11120
26	RichaBansal $(2^{nd}Yr)$ ArjunDatt Sharma $(2^{nd}Yr)$	Competition	Sector-10, Chandigarh	2 11120
26	RichaBansal $(2^{nd}Yr)$ ArjunDatt Sharma $(2^{nd}Yr)$ SheemaArora $(2^{nd}Yr)$	Competition	Sector-10, Chandigarh	2 11120
26	RichaBansal $(2^{nd}Yr)$ ArjunDatt Sharma $(2^{nd}Yr)$ SheemaArora $(2^{nd}Yr)$ Vinayak Chopra $(2^{nd}Yr)$	Competition	Sector-10, Chandigarh	2 11120
26	RichaBansal (2 nd Yr) ArjunDatt Sharma (2 nd Yr) SheemaArora (2 nd Yr) Vinayak Chopra (2 nd Yr) AtushBadyal (2 nd Yr)	Competition	Sector-10, Chandigarh	2 11120
26	RichaBansal (2 nd Yr) ArjunDatt Sharma (2 nd Yr) SheemaArora (2 nd Yr) Vinayak Chopra (2 nd Yr) AtushBadyal (2 nd Yr) Nancy Goyal (2 nd Yr)	Competition	Sector-10, Chandigarh	
26	RichaBansal (2 nd Yr) ArjunDatt Sharma (2 nd Yr) SheemaArora (2 nd Yr) Vinayak Chopra (2 nd Yr) AtushBadyal (2 nd Yr) Nancy Goyal (2 nd Yr) Salony Jain (2 nd Yr)	Competition	Sector-10, Chandigarh	
26	RichaBansal $(2^{nd}Yr)$ ArjunDatt Sharma $(2^{nd}Yr)$ SheemaArora $(2^{nd}Yr)$ Vinayak Chopra $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ Nancy Goyal $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Megha $(2^{nd}Yr)$	Competition	Sector-10, Chandigarh	
26	RichaBansal $(2^{nd}Yr)$ ArjunDatt Sharma $(2^{nd}Yr)$ SheemaArora $(2^{nd}Yr)$ Vinayak Chopra $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ Nancy Goyal $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Megha $(2^{nd}Yr)$ Ishupreet $(2^{nd}Yr)$	Competition	Sector-10, Chandigarh	
26	RichaBansal $(2^{nd}Yr)$ ArjunDatt Sharma $(2^{nd}Yr)$ SheemaArora $(2^{nd}Yr)$ Vinayak Chopra $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ Nancy Goyal $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Megha $(2^{nd}Yr)$ Ishupreet $(2^{nd}Yr)$ Bhuvesh $(1^{st}Yr)$	Competition	Sector-10, Chandigarh	
26	RichaBansal $(2^{nd}Yr)$ ArjunDatt Sharma $(2^{nd}Yr)$ SheemaArora $(2^{nd}Yr)$ Vinayak Chopra $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ Nancy Goyal $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Megha $(2^{nd}Yr)$ Ishupreet $(2^{nd}Yr)$ Bhuvesh $(1^{st}Yr)$ Armaan $(1^{st}Yr)$	Competition	Sector-10, Chandigarh	
26	RichaBansal $(2^{nd}Yr)$ ArjunDatt Sharma $(2^{nd}Yr)$ SheemaArora $(2^{nd}Yr)$ Vinayak Chopra $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ Nancy Goyal $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Megha $(2^{nd}Yr)$ Ishupreet $(2^{nd}Yr)$ Bhuvesh $(1^{st}Yr)$ Armaan $(1^{st}Yr)$ Gurjot $(1^{st}Yr)$	Competition	Sector-10, Chandigarh	
26	RichaBansal $(2^{nd}Yr)$ RichaBansal $(2^{nd}Yr)$ ArjunDatt Sharma $(2^{nd}Yr)$ SheemaArora $(2^{nd}Yr)$ Vinayak Chopra $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ Nancy Goyal $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Ishupreet $(2^{nd}Yr)$ Bhuvesh $(1^{st}Yr)$ Armaan $(1^{st}Yr)$ Gurjot $(1^{st}Yr)$ Gaurav $(1^{st}Yr)$	Competition	Sector-10, Chandigarh	
26	RichaBansal $(2^{nd}Yr)$ RichaBansal $(2^{nd}Yr)$ ArjunDatt Sharma $(2^{nd}Yr)$ SheemaArora $(2^{nd}Yr)$ Vinayak Chopra $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Bhupreet $(2^{nd}Yr)$ Bhuvesh $(1^{st}Yr)$ Armaan $(1^{st}Yr)$ Gaurav $(1^{st}Yr)$ Sahil $(1^{st}Yr)$	Competition	Sector-10, Chandigarh	
26	RichaBansal $(2^{nd}Yr)$ RichaBansal $(2^{nd}Yr)$ ArjunDatt Sharma $(2^{nd}Yr)$ SheemaArora $(2^{nd}Yr)$ Vinayak Chopra $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Bhuyesh $(2^{nd}Yr)$ Ishupreet $(2^{nd}Yr)$ Bhuvesh $(1^{st}Yr)$ Gurjot $(1^{st}Yr)$ Gaurav $(1^{st}Yr)$ Sahil $(1^{st}Yr)$ Karan Maoudgil $(4^{th}Yr)$	Group Dance	IIT- Delhi	2 nd Prize
26	RichaBansal $(2^{nd}Yr)$ RichaBansal $(2^{nd}Yr)$ ArjunDatt Sharma $(2^{nd}Yr)$ SheemaArora $(2^{nd}Yr)$ Vinayak Chopra $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Balony Jain $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Bhuvesh $(1^{st}Yr)$ Bhuvesh $(1^{st}Yr)$ Gurjot $(1^{st}Yr)$ Gaurav $(1^{st}Yr)$ Sahil $(1^{st}Yr)$ Karan Maoudgil $(4^{th}Yr)$ AnuragAggarwal $(4^{th}Yr)$	Group Dance Competition	IIT- Delhi	2 nd Prize
26	National Walishania (2RichaBansal (2 nd Yr)ArjunDatt Sharma (2 nd Yr)SheemaArora (2 nd Yr)Vinayak Chopra (2 nd Yr)AtushBadyal (2 nd Yr)AtushBadyal (2 nd Yr)Salony Jain (2 nd Yr)Salony Jain (2 nd Yr)Bhuyeat (2 nd Yr)Bhuyeet (2 nd Yr)Bhuvesh (1 st Yr)Gurjot (1 st Yr)Gaurav (1 st Yr)Sahil (1 st Yr)Karan Maoudgil (4 th Yr)Shivani Singh (4 th Yr)	Group Dance Competition	IIT- Delhi	2 nd Prize
26	National Walishan (2 nd Yr)RichaBansal (2 nd Yr)ArjunDatt Sharma (2 nd Yr)SheemaArora (2 nd Yr)Vinayak Chopra (2 nd Yr)AtushBadyal (2 nd Yr)AtushBadyal (2 nd Yr)Salony Jain (2 nd Yr)Salony Jain (2 nd Yr)Bhuyesh (2 nd Yr)Bhuvesh (1 st Yr)Gurjot (1 st Yr)Gaurav (1 st Yr)Gaurav (1 st Yr)Sahil (1 st Yr)Karan Maoudgil (4 th Yr)Shivani Singh (4 th Yr)Vishal Thakur (3 rd Yr)	Group Dance Competition	IIT- Delhi	2 nd Prize
26	National Wanshuman (2 nd Yr)RichaBansal (2 nd Yr)ArjunDatt Sharma (2 nd Yr)SheemaArora (2 nd Yr)Vinayak Chopra (2 nd Yr)AtushBadyal (2 nd Yr)AtushBadyal (2 nd Yr)Salony Jain (2 nd Yr)Salony Jain (2 nd Yr)Begha (2 nd Yr)Bhuvesh (1 st Yr)Gurjot (1 st Yr)Gaurav (1 st Yr)Sahil (1 st Yr)Sahil (1 st Yr)Karan Maoudgil (4 th Yr)Shivani Singh (4 th Yr)Vishal Thakur (3 rd Yr)Ankeshaggarwal (3 rd Yr)	Group Dance Competition	IIT- Delhi	2 nd Prize
26	National (211)RichaBansal $(2^{nd}Yr)$ ArjunDatt Sharma $(2^{nd}Yr)$ SheemaArora $(2^{nd}Yr)$ Vinayak Chopra $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ Nancy Goyal $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Bhuresh $(2^{nd}Yr)$ Bhuvesh $(1^{st}Yr)$ Gurjot $(1^{st}Yr)$ Gaurav $(1^{st}Yr)$ Gaurav $(1^{st}Yr)$ Sahil $(1^{st}Yr)$ Karan Maoudgil $(4^{th}Yr)$ Shivani Singh $(4^{th}Yr)$ Vishal Thakur $(3^{rd}Yr)$ NeetiSahdeva $(3^{rd}Yr)$	Group Dance Competition	IIT- Delhi	2 nd Prize
26	National Wanshuman (2 nd Yr)RichaBansal (2 nd Yr)ArjunDatt Sharma (2 nd Yr)SheemaArora (2 nd Yr)Vinayak Chopra (2 nd Yr)AtushBadyal (2 nd Yr)AtushBadyal (2 nd Yr)Salony Jain (2 nd Yr)Salony Jain (2 nd Yr)Bhuyesh (2 nd Yr)Bhuvesh (1 st Yr)Gurjot (1 st Yr)Gaurav (1 st Yr)Sahil (1 st Yr)Sahil (1 st Yr)Shivani Singh (4 th Yr)Shivani Singh (4 th Yr)Vishal Thakur (3 rd Yr)NeetiSahdeva (3 rd Yr)KirtiPrakash (3 rd Yr)	Group Dance Competition	IIT- Delhi	2 nd Prize
26	National Wanshamina (2) 11)RichaBansal $(2^{nd}Yr)$ ArjunDatt Sharma $(2^{nd}Yr)$ SheemaArora $(2^{nd}Yr)$ Vinayak Chopra $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ AtushBadyal $(2^{nd}Yr)$ Nancy Goyal $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Salony Jain $(2^{nd}Yr)$ Bhuyesh $(1^{st}Yr)$ Bhuvesh $(1^{st}Yr)$ Gurjot $(1^{st}Yr)$ Gaurav $(1^{st}Yr)$ Gaurav $(1^{st}Yr)$ Sahil $(1^{st}Yr)$ Karan Maoudgil $(4^{th}Yr)$ AnuragAggarwal $(4^{th}Yr)$ Shivani Singh $(4^{th}Yr)$ Vishal Thakur $(3^{rd}Yr)$ NeetiSahdeva $(3^{rd}Yr)$ KirtiPrakash $(3^{rd}Yr)$	Group Dance Competition	IIT- Delhi	2 nd Prize



	http://www.com/architecture.com/architec			
	Sanigdha Thakur (3 rd Yr)			
	PuneetKralia (3 rd Yr)			
	AtulyaAggarwal (3 ^{ru} Yr)			
	IshanSethi (3 rd Yr)			
	NavjotKaur (3 rd Yr)			
	HarleenKaur (3 rd Yr)			
	Vajira Paul (3 rd Yr)			
	Manish Goyal (3 rd Yr)			
	GauravRahi (2 nd Yr)			
	Akshit Raja (2 nd Yr)			
	Daanish Abdul Aaziz (2 nd Yr)			
	ShrevaAdva $(2^{nd}Yr)$			
	Tanya Bhatia $(2^{nd}Yr)$			
	Divva Gupta $(2^{nd}Yr)$			
	VrindaPopli (2 nd Yr)			
	Nitish Gara $(2^{nd}Vr)$			
	$\frac{1}{2} \frac{1}{2} \frac{1}$			
	Karan Maudoil (4 th Vr)	Groun Dance	DCF-Delhi	1 st Prize
28	A nurage A general (4^{th}Yr)	Competition	DCL Delli	1 11120
	Shivani Singh (1^{th}Vr)	competition		
	Δ kshavMahajan (4^{th} Vr)			
	$\frac{1}{2} \frac{1}{2} \frac{1}$			
	Peepez Gupta $(3^{rd}Vr)$			
	Coursey Pathi (3ndVr)			
	A_{1} tabit P_{0} is $(2^{nd}V_{r})$			
	AKSIIII Kaja (2 II)			
	Daamish Abdul Aziz $(2 - 11)$			
	Nitish Core (2 nd Vr)			
	$\begin{array}{c} \text{NillSil Garg} \left(2 \text{If} \right) \\ \text{Didthims Datta} \left(2^{\text{nd}} \text{V}_{\text{r}}\right) \end{array}$			
	Ridnnima Datta (2 Yr)			
	Ankita Das $(2^{n} Yr)$			
	Navneet Gupta (2 nd Yr)			
	PriyankaBhola (2 nd Yr)			
	DivyaChaitnaya (2 nd Yr)			
	Mohit Kumar $(2^{nd}Yr)$			
	NıpunDahra $(2^{nd}Yr)$			
	Prakhar Gupta (2 nd Yr)			
	PayalNiharika (2 nd Yr)			
	Vijitdubey (2 nd Yr)			
	Maniksangal (1 st Yr)			
	Radhika Jain (1 st Yr)			
	Radhika Sharma			
	AvnikaPuri (1 st Yr)			
	ShubranshuChaudhry (1 st Yr)			
	Ashish $(1^{st}Yr)$			
	Ashish Gupta (1 st Yr)			
	Anshit Malik (1 st Yr)			



	AkshitSingla (1 st Yr)			
	Karan Taneja (1 st Yr)			
20	Fateh Singh Mann (2 nd Yr)	Consortium Managerial	VNIT-Nagpur	3 rd prize
29	RatulArora (3 rd Yr)	Fest		
20	RatulArora (3 rd Yr)	Parivartan Ultimo	CEC-Landran	1 st prize
50		Empresario competition		
21	Abhinav	Parivartan Ultimo	CEC-Landran	2 nd prize
51	Aman	Empresario competition		
	Sidharth			
27	KirtiTripathi (2 nd Yr)		TATA	1 st Prize
52	AvijeetBoparai (2 nd Yr)	TATA Crucible		
22	GulsherSahni (1 st Yr)		NLU-Delhi	Quarterfinal
55	AnishNangia (2ndYr)	Debating Competition		Qualifiers



37. Activities of the Guidance and Counselling Unit

Following are the activities undertaken by guidance and counselling unit in the year 2010-11:

- 1. Individual meetings of the Students Counselor with the students in need.
- 2. Sessions with students those who are suffering from severe problems.
- 3. Interaction with the parents of those students who are having severe problem.
- 4. Discussion with subject teachers of the students who are not able to perform well academically.
- 5. Psychological testing (in order to identify the problem of individual student).
- 6. Expert talks on personality development, psychological problems, personal and social problems.
- 7. Peer help group activities (in which students identify problems of their friends and refer them for counselling)
- 8. Psychotherapy is undertaken for faculty members.
- 9. Motivating students in need to visit counselling office and creating awareness regarding counselling in institute as well as hostels.



38. Placement Services Provided to Students

Number of the Companies	Number of Students Placed	Range of Package
93	425	Rs. 3.00 to Rs. 12.71 lacs p.a.

Top companies that visited the institution during the year 2010-11

- 1) Texas
- 2) LG Electronics
- 3) Tata Motors
- 4) Cisco
- 5) Goldman Sachs
- 6) Namura
- 7) Maruti
- 8) Trident
- 9) BHEL
- 10) Engineers India Limited
- 11) ST Ericsson
- 12) EDIFECS
- 13) DRDO
- 14) FUTURE FIRST

Recruitment done through placement cell during the year 2010-11

Department/	Number of	Number of	Average	Highest Salary Offered Per
Programme	companies	students	Salary	annum
	visited	recruited	Per Annum	(in lacs)
(BE+ME)			(in lacs)	
Aeronautical	06	08	5.14	5.5
Civil	12	49	3.86	9.0
Computer Science	18	33	6.19	12.71
Electrical	16	40	4.67	9.00
Electronics	22	70	4.23	8.50
I.T.	15	37	4.29	8.50
Mechanical	21	52	4.57	9.52
Metallurgical	09	23	3.59	4.59
Production	11	22	4.13	8.5



39. Development Programmes for Non-teaching Staff

Following are the details of the development program attended by non teaching staff. However, no programme was conducted for the same.

S.No.	Name of the	Programme Attended	Duration	Institution (where
	Staff member			attended)
1.	Ms. Maninder	Refresher course in	28.12.2010 to	Guru Nanak Dev
	Kaur, Sr.	Library and Information	17.01.2011	University,
	Librarian	Science		Amritsar
2.	Ms. Veena	RTI	05.07.2010	U.T., Guest House
	Manocha, Jr.			
	Assistant			

Programme Attended



40. Good Practices of the Institution

Good Practices in Curricular Aspects

a) In the year 2005, the entire curriculum for undergraduate & Post graduate Programmes was re-designed in line with the latest trends. New concepts of Design points and Honours programme have been introduced. Courses like Mechatronics, Introduction to Engg. Design, Introduction to Manufacturing form an integral part of the curriculum.

b) Academic Programmes are flexible in that they are credit-based and there are options available in Humanities, Departmental Electives and Open Elective Courses.

c) Academic web server facility where the course materials, assignments etc. can be uploaded by the faculty for students' reference.

d) Feedback from employers / alumni / outgoing students is obtained regularly and gets due consideration in the design / revision of curriculum.

e) The curriculum and the scheme has again been revised and the revised courses have been offered w.e.f. the session 2010-11.

 f) Interdisciplinary Courses like Mechatronics, Unified Electrical Engineering and Unified Mechanical Engineering are also there.

Good Practices in Teaching and Learning

a) Technology Orientation: the curriculum has been framed such that a student is exposed to more of technology courses at the very beginning of the academic programme. The exposure to workshop practice has increased.

b) Engineering Core: There is a vast engineering core knowledge that every engineer of whatever discipline must have. To meet this, the curriculum has two two-semester courses, namely, Integrated Mechanical Engineering, and Integrated Electrical Engineering. The first course is mandatory for all non-mechanical disciplines (Computer Science and Engineering, Electrical Engineering, Electronics and Communications Engineering, and Information Technology), and the second by all non-electrical disciplines (Aeronautical Engineering, Civil Engineering, Mechanical Engineering, Metallurgical Engineering, and Production Engineering).



c) Design Orientation: Design forms a very important part of engineering as a prescriptive discipline. Design training has been made an integral part of institute's curricula. To ensure that students learn to design, the design training is not confined to just a few capstone courses, but starts from the very beginning, and in as many courses as possible. The students undertake open-ended problems, the successful solutions of which require students to look up data-books, to integrate knowledge learnt in different courses or at least in different parts of a course, to understand that most design problems require iterative methods, to appreciate that optimization and sensitivity analyses are necessary tools of design, and to take holistic view of problems. To implement this, the design content of each curriculum is framed. For each 15-hour worth of design work required in a course, one *design point* is assigned to the course. A student must earn at least 30 *design points* before completing a B.Tech degree curriculum. Some of these design projects involve groups of students working together.

- d) Honours Programme: To provide sufficient challenge to the brighter students, an *Honours* programme has been offered. In this programme the students are encouraged to overreach and undertake extra learning units, assignments, projects, etc., over and above what is prescribed for the regular course. The grade in the *Honours* course depends upon the student's performance in the regular material prescribed for the course *as well as* in the extra material covered.
- e) Communication Skills: In addition to the regular courses a course on communication skills is offered after the college hours.
- f) Science and Mathematics: Each curriculum stresses the scientific basis of engineering practice. Each programme has at least 6 courses in science and mathematics, developed to train the students in the tools required for a specific discipline.
- g) Breadth and Depth Requirements: Each curriculum has been so designed that it covers the essentials of the major sub-divisions of a discipline. The students are required to select electives from within groups of courses classified according to the major subdivisions of the discipline so that a depth area can be built.
- h) Information Technology: In today's information-oriented global economy, university graduates must be savvy users of information technology. That is why, the institute's programmes use information technology as an effective tool to deliver content.
- Experimental Methods: The laboratory courses are carefully designed so that a student learns that there is an experimental methodology, that it is field-independent, reliable, and can be followed to make decisions at each stage i.e. from formulating the objectives to



analyzing the results. The purpose of the laboratory experiments is *to teach* experimental methods to obtain design information *rather than to demonstrate* physical phenomena.

- j) Humanities and Social Sciences: Our students need to develop in an all-round manner and must understand the human and the social contexts within which all professional activities take place. For this reason the programmes should have about 5% content related to humanities and social sciences.
- k) Comprehensive Viva: There is a comprehensive oral examination at the end of the programme that tests a student on his comprehension of the discipline as a whole.

Besides above an innovative Academic web server facility has been in-house developed and implemented where the course materials, assignments etc. can be uploaded by the faculty for the reference of the students. Full semester internship in industry/research institutes during the sixth semester of BE programme gives the student good exposure to actual work environment. New courses like Mechatronics, Engineering Design, Introduction to Manufacturing etc. form an integral part of the BE curriculum. The evaluation process is completely transparent and continuous. Evaluated answer-books are available to the students within 96 hours of the end of the examination.

Good Practices in Research, Consultancy and Extension

- A. Good Practices in Research
 - a. In house project funding

The faculty is encouraged to undertake In-house Research Projectsby providing them internal funding for creation/enhancement of facility, which is useful to research students (M.Tech & PhD) as well as to the needs of the industry. A budget of approx. Rs. 100 lacs is provided for this purpose annually.

b. Incentives for Sponsored Projects

In order to encourage our faculty to undertake sponsored research, an incentive scheme has been initiated. One third of the funds received as overheads or 3% of the total fund received for the sponsored research project will be used as incentive for the faculty participating in sponsored research. The incentives may be used for any of the following research expenses except salary payments directly to the investigator/s:

• Financial assistance for attending conference (in India or abroad).



• Financial assistance to investigator/s of the concerned project travel (in India) for purposes related to research interaction with industry/institute/research organization/ faculty development program.

- Purchase of books/journal/research papers.
- Membership of professional society.
- Purchase of furniture/computing facility/ other infrastructure for the office.
- Hiring of manpower for short duration.
- Any other approved by the Director PEC

c. Annual targets for Sponsored Research

Each faculty member is expected to participate in sponsored research. Faculty is expected to have completed one major project (value more than Rs. 10 lakhs) every year as PI or Co-PI or one minor project (value less than Rs 10 lakhs) every four years.

d. Concept of formation of Research Group

Research Groups involving 3-4 faculty members, will be formed in the institute which will be provided In-house funds for carrying out research work on a relevant emerging areas and for organizing national or regional level events. Such research group may expand to a new Master's Programme and may eventually become an Inter disciplinary Centre/Department.

- B Good practices in Consultancy
 - a. High interaction with industry
 - b. Providing inputs or expertise required in engineering projects by Chandigarh Adminstration
 - c. Centre for Consultancy in Engineering at PEC to carry out larger consultancy projects sponsored by Govt./Semi Govt. or autonoums organizations using the faculty, student and other resources of the institute.
- C. Good practices Extension Activites
 - a. Innovative Projects

Philips innovation projects series is under progress for last three years. Six innovation projects have been completed involving more than 25 students and 6 faculty members of the PEC.At present Philips India Limited announced three new projects to be undertaken



by the students under guidance of our faculty. The research project includes the innovative solutions to Heat dissipation in mixer grinder, Burning chamber bottom plate for woodstove and Motion transfer through coupler. The institute provides full support to the students of the institute for execution and implementation of Innovation projects.

b. Participation in competitive event at national and international levels

The students of the Mechanical Engineering Department of the institute had participated in NASA the Great Moon Buggy Race-2009 at U.S Space & Rocket Center, Hunstville, Alabama, USA. The Moon Buggy, which is manual driven vehicle, was designed an manufactured by the participants for the said contest. The Chandigarh Administration and PEC University of Technology jointly funded the project. The students of the institute had participated in the Collegiate Design Series Competition FASE (Formula SAE) Australia competition held in Melbourne, Australia in 2009. The budget of the Collegiate Design Series Competition FASE (Formula SAE) was about Rs. 25.00 lacs jointly born by the Chandigarh Administration, Punjab Government & Trident Group.

c. PEC Science and Maths Shiksha Priyojana

The Inclusive Growth Project "PEC Science and Maths Shiksha Pariyojna" - an initiative of the NSS unit and Department of Applied Sciences was launched in August 2010. The main objective of the project is to teach Science and Mathematics to 50 underprivileged students of government schools of Chandigarh and the peripheral regions which come under the U.T. administration.

d. NSS Activities

The NSS unit of the university has a tie up with the Commonwealth Asia Center under the Commonwealth Youth Credit Initiative (CYCI) and has formed two women self help groups, one engaged in making pickle and the other in stitching. The students also engage in research projects on various societal problems that includes women and children.

The NSS unit of the university has adopted a nearby slum and work towards empowering them towards a better living. This includes the Commonwealth Youth Credit Initiative that has changed the lives of the women who are part of the self help group to a large extent who feel independent and contribute in the welfare of their family. Through the awareness drives and engagement programmes, there has been a change in the living of the slum dwellers who are now more responsible citizens.



e. Energy and Envirovision Club

The Energy and Envirovision Club works towards the betterment of the environment and energy conservation. The club has been taking initiatives in this direction with the sole purpose of serving mankind. Keeping in view the deteriorating condition of the environment, the Envirovision Club arises awareness and friendliness towards the environment and welcomes all those who want to join hands and work for the same cause. Activities of the club include tree plantation, Anti-polythene drive, Rain Water Harvesting project and Global Warming Rally.

f. PEC Open House

PEC Open House is an annual event organized with the aim to encourage the young school students to pursue engineering as their career. It seeks to aspire the future generation of our country by opening their minds to the developing technologies of the present time. Open House gives the students of all the departments of the institute to an opportunity to showcase their projects in front of the school students in the form of presentations and working models. The visiting schools are also acquainted with the laboratories and workshops of the college.

Good Practices for Development of Infrastructure

- a) Adequate funds for maintenance and up gradation of physical facilities.
- b) Adequate non-recurring budget for up gradation of laboratory equipment.
- c) LCD projectors for all lecture rooms.
- d) Wi-fi internet connectivity in academic area.
- e) Laptop with every student.

Good Practices for development of Learning Resources

- a) Adequate funds for purchase of books, journals, CDs.
- b) Membership of INDEST consortium.
- c) Technology Enhanced Learning Resources like NPTEL etc.
- d) Academic web server for uploading academic content.
- e) Online Public Access Catalogue for efficient user search from any location in the campus.



f) Good learning ambience in library.

Good Practices in Student Support and Progression

PEC offers

- a) Scholarships/Free ships for SC/ST/EWS/Women/Meritorious students
- b) Counselling Service to help students facing stress
- c) Summer courses for slow learners
- d) Financial support to students to participate in national and international conferences
- e) Faculty support and financial assistance to students for undertaking major competitive projects
- f) Well placed alumni provide career guidance and mentorship
- g) Student exchange with foreign universities
- h) Students projects in collaboration with industry



41. Linkages developed with National/ International, academic/research bodies

MOU with NJIT, USA

A Memorandum of Understanding was signed and exchanged between PEC University of Technology, Chandigarh and New Jersey Institute of Technology (NJIT), USA on March 28, 2011 by Dr. H.Ross, Chief of Staff, NJIT and Dr. Manoj Datta, Director, PEC University of Technology. Dr. S. Saigal, Distinguished Professor and Dean New Jersey Institute of Technology (NJIT), USA who is an Alumnus of PEC, was the driving force behind the collaboration. The MoU was been signed with the major objective of establishing academic collaboration and fostering student exchange between the two Universities. Dr. Vasundhara Singh, faculty in-charge at PEC and Dr. Sanjeev Sofat, Dean Academic Affairs facilitated the collaboration. This agreement includes various activities which will enable both PEC and NJIT to exchange students at both undergraduate and postgraduate levels for internship/projects and course work in regular engineering curriculum for a period of up-to six months to one year. The MoU will also foster co-operation for faculty exchange through deputation for short term assignments upto a period of one year and other activities which will include joint projects, joint supervision of doctoral students and other academic programmes of mutual interest. This agreement will be valid for the next five years.

42. Action Taken Report on the AQAR of the previous year

The AQAR report is being prepared for the first time by the Institution and hence there is no previous AQAR report.

43. Any other relevant information the institution wishes to add: NIL



SECTION-C

Outcomes achieved by the end of the year

Academic Outcomes

In the year 2011, a total of 370 students completed their B.E programme in various disciplines and 23 graduated with Honors. 167 ME students also completed their programme of studies this year. 2 PhD scholars have also completed their degrees. As per the plan of action for year 2010-2011, 90-95% of classes scheduled were actually engaged by the faculty alongwith complete transparency of student evaluation and timely declaration of results. Three new academic PG programmes out of which two are inter disciplinary were initiated and new scheme was implemented for UG programmes. All the classrooms were equipped with LCD projectors, white boards, Wi Fi etc.

Training & Placement

In the year 2011, 332 out of 364 eligible BE students of 2010-11 batch have been offered jobs through campus interviews conducted by 93 companies. 93 ME students also secured jobs through these interviews.

Research & Development

As an initiative towards faculty development programme, 36 faculty members attended various national/international conferences and short term courses. Also approximately 5 faculty members were sent by the institute for PhD programme under QIP. Seminars/workshops were conducted by the various departments in the institute for the faculty of engineering colleges and industry persons. As an outcome of the research, more than 100 papers were published in international/national journals and conferences by the faculty of various departments. More than 200 consultancy/testing projects were undertaken by the institute faculty.

Sponsored Research, Consultancy and MOUs

Some of the faculty members are pursuing research projects funded by external agencies like DST, AICTE, DIT, IISC Bangolore etc. of approximately 180 lacs. To further enhance the research output of the faculty, institute also provided funds for carrying out research in the form of in-house research projects. Some of the in-house research projects were completed in the year 2010 and rest are ongoing. An international linkage with New Jersey institute of technology, USA was developed which includes student and faculty exchange leading to joint projects and other activities upto a period of one year.

Infrastructure Development

Fourteen engineering works related to buildings, public health and electrical installation were taken up by the engineering department with the help of UT Administration.



Student Activities

For encouraging students to participate and excel in various co-curricular and extra curricular activities at national and international level, financial aid was provided internally and by external agencies. Also students obtained financial aid for paper publication, technical societies, organizations of technical and cultural events sports etc. The students achieved several awards in cultural as well as technical events at national and international level like BAJA SAE India 2011, Formula SAE NASA, Great Moonbuggy race and technical events at IIT Kanpur, Chennai and IISC Bangalore etc.

Open House as an annual event of the institute was also organized in which the various projects made by the students of the institute were showcased to the school students. Over 300 students from 43 schools visited the institute to see the projects and have know-how about the institute.

Social Activities

NSS took several initiatives towards the community schemes like PEC Shiksha Pariyojna to benefit under privileged students, Workshop coat stitching and pickle preparation contract to Self Help Group to benefit the women in terms of providing employment to them. To improve the learning resources library, approx. Rs. 44 lacs were spent for the purchase of nearly 2400 books and 72 journals. In the two Blood Donation camps held during the current session 778 units of blood were donated by the faculty, staff and students of the institute.

Technology Upgradation

There is a continous technology upgradation in the various engineering departments, computer centre, library etc in the form of purchase of state of art equipments, softwares, setting up of new labs and subscription of new journals and magazines etc.

Support from Alumni

The Annual Alumni meet held in December 2010 witnessed participation by a large number of Alumni. The Alumni interacted with the faculty of their individual departments. Alumni have also instituted several awards and scholarships for the needy and the meritorious students of the institute through PEC Old Students Association.



SECTION-D

Plans of the Higher Education Institute for the next year

- To sustain and improve the overall performance of the institute on National and International level.
- To adopt best practices at the institute for teaching and research.
- To improve communication skills, enterpreunership skills and innovative skills etc. by way of encouraging the students to perform and to take part in national and international events.
- Undergo expansion by offering new programs in emerging areas like VLSI and Industrial Design.
- Take initiatives to fill vacant faculty posts.
- Take initiatives to rationalize the staff strength by increasing at certain levels and outsourcing at other levels.
- Increase sponsored research and consulting projects.
- To increase the number of students being admitted to PhD programme.
- To encourage faculty members to publish more number of research papers in refereed journals and national and international conferences.
- Encourage students to undergo overseas exchange programme.
- Engage with industry and alumni through annual meets in each department.
- Organize short courses and workshops/seminars/conferences by various departments.
- Undertake city initiatives every year and offer solutions for urban problems.
- Undertake department level or NSS level initiatives or affirmative action for helping the underprivileged through skill development /knowledge development.
- To upgrade the infrastructural facilities in the various departments of the institute and ensure optimum utilization of them.

Name and Signature of the Director/Coordinator, IQAC

Name and Signature of the Chairperson, IQAC