

**PAPERS TO BE LAID ON THE TABLE OF LOK  
SABHA/RAJYA SABHA**

**ANNUAL REPORT & ANNUAL ACCOUNTS  
2015-16**



**(AUTHENTICATED)**

**MINISTER OF STATE IN THE  
MINISTRY OF HUMAN RESOURCE  
DEVELOPMENT  
NEW DELHI**

Dated:-

**NATIONAL INSTITUTE OF TECHNOLOGY  
HAMIRPUR (HP)—177 005**



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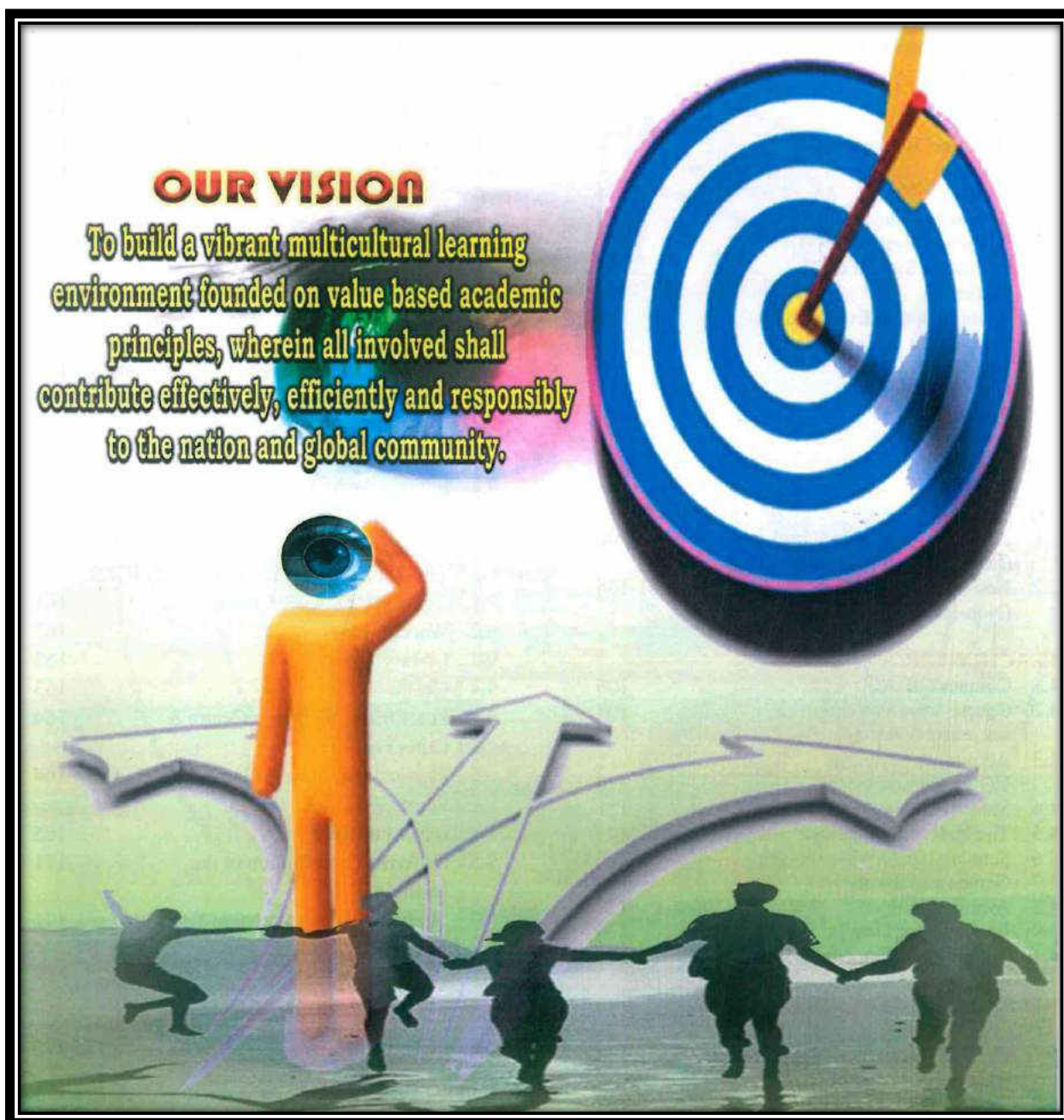
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## 1.0 INTRODUCTION

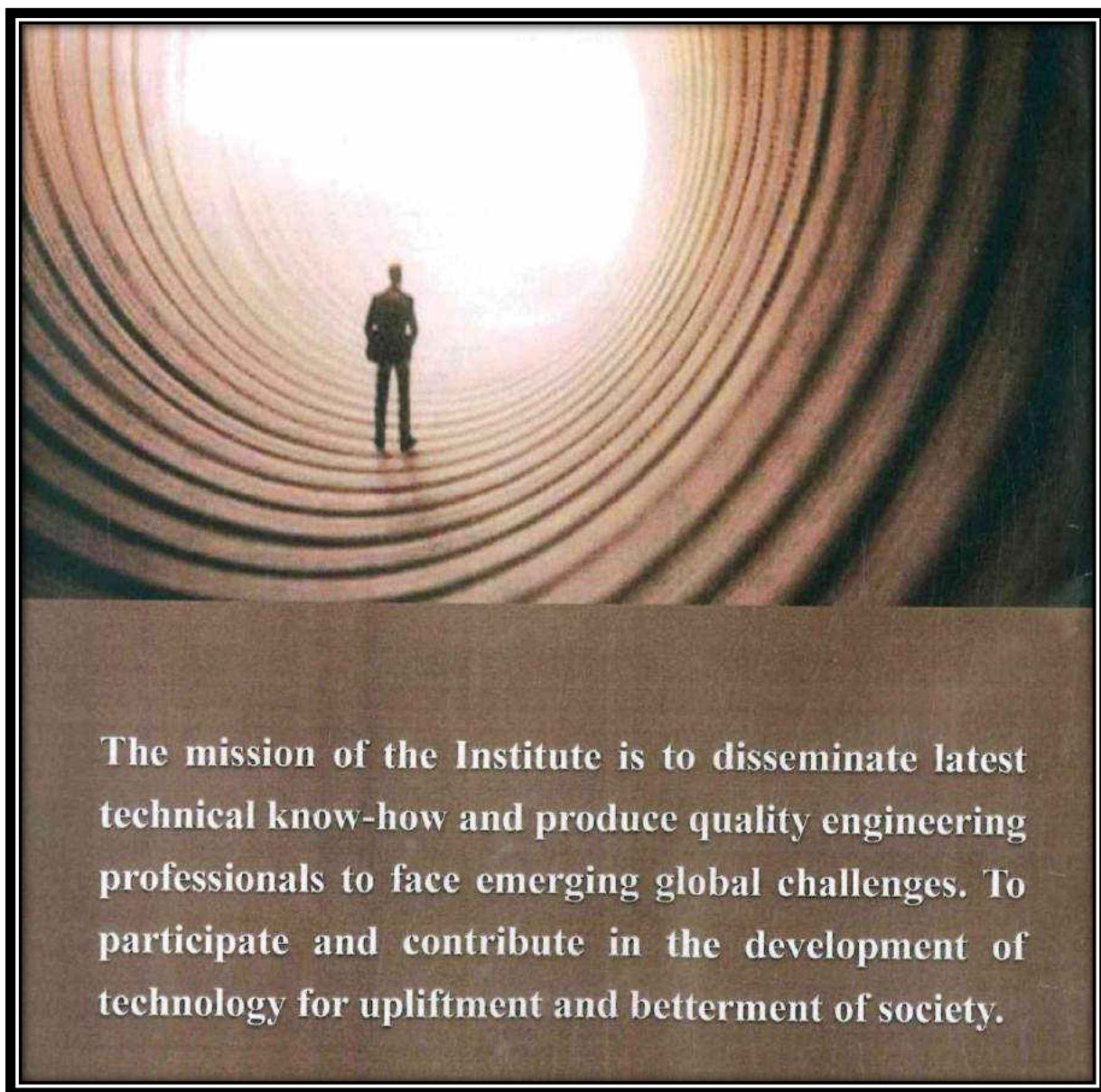


**1.2*****Guiding Principle***

- Offering instructions in Engineering and Applied Sciences at a level comparable to the very best in the world.
- Providing best facilities for Postgraduate Studies and Research.
- Providing leadership in curriculum planning and laboratory development.
- Faculty Development Programmes both for its own faculty and teachers of other Engineering Institutes.
- Developing close collaboration with industry through exchange of personnel's and undertaking consultancy projects.
- Developing strong collaboration links with other academic and research institutions in the country and abroad.
- Anticipating the technological needs for India and to plan and prepare to cater to them.
- Developing continuing education programmes.
- Preparing instructional resource material in the conventional as well as audio visual and the computer modes.
- Catering to the development of a culture for maintenance and conservation.



## 1.3 Mission



## **2.0 AN OVERVIEW**

### **2.1 HISTORICAL BACKGROUND**

The National Institute of Technology, Hamirpur was established as REC in 1985 as a joint and co-operative enterprise of Government of India and Government of Himachal Pradesh. The Institute offers undergraduate and postgraduate education in Engineering, Architecture and Applied Science & Humanities disciplines, fostering the spirit of national integration among the students. It promotes a close interaction with industry and a strong emphasis on research, both basic and applied. It was given the status of Deemed University w.e.f. 26.06.2002. As a result of conversion of RECs into NITs and promulgation of the NIT Act, 2007 w.e.f. 15<sup>th</sup> August, 2007, the NIT, Hamirpur is enjoying the status of Institution of National Importance.

### **2.2 LOCATION**

The Institute campus is located on Hamirpur-Awah Devi Road on the outskirts of the Hamirpur town, at a distance of about four (04) kilometer from the bus stand Hamirpur. It is well connected by road from Shimla, Dharmashala, Delhi, Chandigarh, Jalandhar and nearby cities by all weather road. The nearest broad gauge head is at Una (Himachal Pradesh), which is eighty (80) kilometer from Hamirpur. It is about nine hours' journey by train from Old Delhi to Una and frequent bus services are available from Una to Hamirpur. From Hamirpur bus stand to NIT Campus, taxi services are also available. The nearest airport is at a distance of about eighty five (85) kilometer at Gaggal Kangra at Dharamshala and has direct airlink from Delhi and Chandigarh.

### **2.3 CAMPUS**

The campus has an area of 177.1 Acres in the picturesque surrounding with lush green pine trees, facing snow clad Dhauladhar mountain ranges. The place has healthy climate with moderate temperature ranging from 4° to 40° at an altitude of 900 meter. It presents a spectacle of harmony in architecture and natural beauty. The land for the Institute has been acquired from the State Government and on this various instructional, administrative, residential buildings, hostels and students' activity centres, open air theatre, auditorium and stadium etc. have been constructed. The acquisition of 50 acres of more land is under process for the expansion of NIT Complex. The process of transfer of land from the State Government to NIT, Hamirpur as per NIT Act, has been completed.



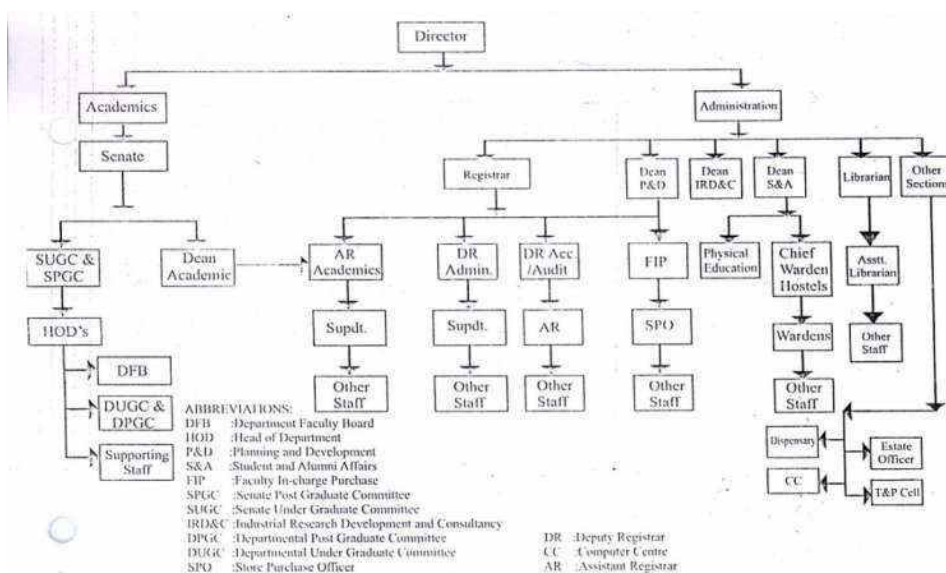






## 2.4 ADMINISTRATION

The Director of the Institute is the Principal Academic and Chief Executive Officer and is responsible for proper Administration under the supervision of Board of Governors. He is assisted in day-to-day work by the Deans, HODs, Registrar and other Officers and Committee Coordinators of the Institute. The system has been made fully transparent & powers and responsibilities have been abdicated and de-centralized.



## 2.5 Education System (UG)

### Admission

#### i. Admission Criterion

The admission to various undergraduate programmes is made once a year in July by CSAB on the basis of JEE Main Exam conducted by Central Board of Secondary Education (CBSE), New Delhi.

#### (ii) Admission under Cultural Exchange Programme

A few admissions are offered under the Cultural Exchange Fellowship Programme of Government of India, administered by the Indian Council of Cultural Relations (ICCR), New Delhi. For these admissions, the candidates are required to apply through the Indian High Commission / Embassy in their respective countries.

#### (iii) Reservation Policy

Institute follows the reservation policy as notified by MHRD, Govt. of India from time to time. The Chairman Senate in consultation with Dean Academics and Chairman SUGC shall nominate members for coordinating the admissions with the CSAB.

#### (iv) Academic Session

The academic session normally begins in the last week of July and ends in first week of May. It is divided into two parts.

- (a) **Odd Semester:** From the last week of July to first week of December.
- (b) **Even Semester:** From the last week of December to first week of May.

(v) **Academic Calendar**

The exact dates of all the important events such as orientation, registration, late registration, commencement of classes, submission of documents, examinations, submission of grades, vacation, mid-semester break, etc. during the Academic Session are specified in the academic calendar of the Institute, approved by the Senate.

(vi) **Programme Structure**

**Curriculum**

The academic programmes of the Institute follow the credit system. Details of the curriculum for the undergraduate programmes as approved by the Senate on the recommendations of SUGC and as contained in the “Courses of Study” bulletin, is published periodically by the Institute. The medium of instruction, examination and project reports is in English. The Institute strives to design all programmes focusing on outcome in order to ensure quality and technical competency of the students undergoing a programme.

**B.Tech. Programmes**

These are divided into two distinct but compatible parts called Core Curriculum and Professional Curriculum. Each student is required to go through the Core Curriculum, irrespective of his/her chosen branch of specialization.

The Professional Curriculum is meant for the chosen branch of specialization. It consists of a set of compulsory courses, electives (open as well as branch specific) and project work besides courses in Humanities and Social Sciences. The departments may organize educational tours and training programmes as part of the Professional Curriculum.

**B.Arch. Programme**

It consists of professional courses along with educational tours and training are an integral part of the curriculum.

(vii) **Registration**

Registration is very important procedural part of academic system. All students are required to register in person for each semester for the course to be pursued by them, as per the programme, on the dates specified in the Academic Calendar. The sole responsibility for registration rests with the student concerned.

**Registration Procedure**

A list of courses to be offered during the 1<sup>st</sup> year is put up on the notice board by the Chairman SUGC and for 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> years the same is put on the website by the Head of the concerned departments. The list of courses is also made available to

the Convener, DUGC and Registration Advisors. The SUGC nominates Registration Advisors from amongst the faculty to provide necessary information on the core-curriculum courses offered and changes, if any, during registration in each semester. Similarly, the DUGC nominates Registration Advisors to advise students on registration for courses of the professional curriculum. The registration procedure involves:

- (a) Filling of the prescribed registration form mentioning the courses to be credited in the Semester
- (b) Payment of fees and clearance of outstanding dues (if any)

The candidates admitted to the institution in their first year in any programme are required to submit documents of having passed the qualifying examination by the last date given in the Academic Calendar to get their registration regularized. The students of NIT, Hamirpur whose results have not been declared and are seeking registration in other semesters shall be admitted only provisionally. They shall have to fulfill all the requirements of registration after the results are declared.

## **2.6 EDUCATION SYSTEM (PG)**

### **(i) INTRODUCTION**

The objectives of various academic programmes at the National Institute of Technology, Hamirpur (HP) are:-

- To ensure high standard of performance in teaching & research
- To develop the scientific and engineering manpower of the highest quality to cater to the needs of the industry
- To be a role model of educational institutions in the country
- To provide a broad grasp of the fundamental principles of the sciences and scientific and technological methods through its curriculum
- To provide a deep understanding of the area of specialization
- To provide an innovative ability to solve new problems
- To provide a capacity to learn continually and interact with multidisciplinary groups
- To develop the students with a capability for:
  - Free and objective enquiry
  - Courage and integrity
  - Awareness and sensitivity to the needs and aspirations of society.

With these objectives in mind, the postgraduate programmes are designed to include courses of study, seminars and project/thesis through which a student may develop his/her concepts and Intellectual skills. All the rules and regulations are embodied in the PG Manual. The Departmental Post Graduate Committee (DPGC) ensures that all the Rules and Procedures given in PG Manual are adhered to and implemented without any change. While considering an issue if the manual does not specifically mention something, the same shall be forwarded to SPGC for its consideration. The set of regulations, on approval by the senate, shall



supersede all the corresponding earlier set of regulations of the Institution, with all the amendments thereto, and shall be binding on all parties concerned including students undergoing PG programmes, Faculty, Staff, Departments and Institute Authorities.

**ii. Postgraduate Programmes**

The Institute offers M.Tech./M.Arch./MBA and Ph.D. programmes in various academic departments/centres of the Institute.

**(iii) Admission Requirement for M.Tech./M.Arch.**

The applicant must have a Bachelor Degree in Engineering/Technology/Architecture/AMIE in appropriate discipline or a Master Degree in appropriate discipline with CGPI of 6.5 on a 10-point scale (or equivalent) or 60% marks in case of Open/OBC candidates in qualifying degree. Whereas in case of SC/ST candidates a CGPI of 6.0 on a 10-Point scale (or equivalent) or 55% marks in qualifying degree will be applicable. The admission to M.Tech./M.Arch.programmes will be on the basis of valid GATE Score in appropriate subject.

**(v) Admission Requirement for MBA**

**Eligibility Criteria:** B.E/B.Tech.in any branch of Engineering/ Technology with 1<sup>st</sup> Division and valid score in CMAT examination.

**iv) Duration:** The duration of each M.Tech./M.Arch./MBA programme is 2 years (4 semesters)

## **2.6.1 COURSES OFFERED**

The following programmes are offered by the Institute:-

1. B.Tech./B.Arch.
2. Five years dual degree Bachelor and Master of Technology
3. M.Tech./ M. Arch./MBA
4. Ph.D

## **2.6.2 ACADEMIC PROGRAMMES**

The Institute offers undergraduate programmes leading to various degrees are follows:

| <b>Sr. No.</b> | <b>Degree</b> | <b>Branch</b>                             |
|----------------|---------------|---|
| 1              | B. Tech       | Civil Engineering                         |
| 2              | B. Tech       | Electrical & Electronics Engineering      |
| 3              | B. Tech       | Mechanical Engineering                    |
| 4              | B. Tech       | Electronics and Communication Engineering |
| 5              | B. Tech       | Computer Science and Engineering          |
| 6              | B. Tech       | Chemical Engineering                      |
| 7              | B. Arch       | Architecture                              |

**Five years Dual Degree Bachelor and Master of Technology**

| Degree   | Branch                                    |
|--|---|
| Five years Dual Degree Bachelor and Master of Technology         | Computer Science & Engineering            |
| Five years Dual Degree Bachelor and Master of Technology in E&CE | Electronics and Communication Engineering |

**M. Tech.**

| Sr.No. | Department/Centre                         | M.Tech. programme  |
|--------|---|--|
| 1.     | Civil Engineering                         | Geotechnical Engineering & Under Ground Structures                   |
|        |   | Structural Engineering   |
|        |   | Transportation Systems Engineering                                   |
|        |   | Water Resources Engineering  |
| 2.     | Electrical Engineering                    | Power System   |
|        |   | Signal Processing & Control  |
|        |   | Condition Monitoring, Control & Protection of Electrical Apparatus   |
| 3.     | Mechanical Engineering                    | Thermal Engineering (Computational Fluid Dynamics and Heat Transfer) |
|        |   | CAD-CAM  |
| 4.     | Electronics & Communication Engineering   | VLSI Design Automation & Techniques                                  |
|        |   | Communication Systems & Networks                                     |
| 5.     | Computer Science & Engineering            | Computer Science & Engineering                                       |
|        |   | Mobile Computing   |
| 6.     | Architecture                              | M.Arch. in Sustainable Architecture                                  |
| 7.     | Centre for Material Science & Engineering | Material Science & Engineering                                       |
| 8.     | Centre for Energy & Environmental Engg.   | Energy Technology  |
|        |   | Environmental Engineering  |

**MBA**

| Sr. No. | Department/Centre | MBA programme |
|---------|-------------------|---------------|
| 1       | DOMS              | MBA           |

**2.6.3 Admission Procedure****(i) B.Tech./B.Arch./ Five Years Dual Degree Bachelor and Master of Technology****Method of Selection**

The admission to 1<sup>st</sup> Year B. Tech. and B. Arch. (Undergraduate courses) & Five years Dual Degree Bachelor and Master of Technology programme are being made through the JEE (Main) Examination conducted by the CBSE and as per the guidelines framed by

Ministry of Human Resource Development, Govt. of India, Department of Secondary and Higher Education.

**Regular Students:** B. Tech./B. Arch. & Five years Dual Degree Bachelor and Master of Technology.

**Sponsored Students:** Nil

**(ii) M.Tech./M.Arch.**

**Method of Selection**

The applicant must have a Bachelor Degree in Engineering/Technology/Architecture in appropriate discipline or a Master Degree in appropriate discipline with CGPI of 6.5 on a 10-point scale (or equivalent) or 60% marks in case of Open/OBC candidates in qualifying degree. Whereas in case of SC/ST candidates a CGPI of 6.0 on a 10-Point scale (or equivalent) or 55% marks in qualifying degree will be applicable. The admission to M.Tech./M.Arch. programmes will be on the basis of valid GATE Score in appropriate subject.

**Regular Students**

Admission to M.Tech./M.Arch. (Full Time) programmes are conducted through Centralized Counseling (CCMT). Applicants fill online application and fill choices of programmes for NIT Hamirpur and other NITs through the online. After the allotment of seats, the candidates proceed to various NITs for reporting/admission.

**Sponsored Students**

The candidate who is sponsored by his/her employer must have been in service of the sponsoring organization for at least two years. Moreover, the sponsoring organization must be a reputed medium or large scale Government organization/private industry or a reputed technical institute. The sponsoring organization must specifically undertake to relieve the candidate to pursue the programme for its full duration.

**Admission requirement for MBA**

Eligibility criteria: B.E./B. Tech. in any branch of Engineering/Technology with 1<sup>st</sup> Division and valid score in CMAT examination.

**(iii) Ph. D. (Full Time)**

**Method of Selection**

The applicant must have a Master Degree in appropriate discipline with CGPI of 6.5 on a 10-point scale (or equivalent) or 60% marks in case of Open/OBC candidates in qualifying degree. Whereas in case of SC/ST candidates a CGPI of 6.0 on a 10-point scale (or equivalent) or 55% marks in qualifying degree will be applicable.

**Regular Students**

The admission to Ph.D. programmes in various departments/centres is done on the basis of written test presentation or interview.

**Sponsored Students**



The candidate who is sponsored by his/her employer must have been in service of the sponsoring organization for at least two years. Moreover, the sponsoring organization must be a reputed medium or large scale Government organization/private industry or a reputed technical Institute. The sponsoring organization must specifically undertake to relieve the candidate to pursue the programme for its full duration.

## 2.7 STUDENTS:

National Institute of Technology, Hamirpur (HP) has always been the preferred destination of the bright students. The present strength of students at NIT, Hamirpur is **2910 (2445 Boys +465 Girls)**. Students of NIT Hamirpur are also known for their excellence in socio-cultural activities and in athletics. This multilingual and multi-cultured environment is particularly conducive to its future development. The Alumni of NIT Hamirpur have made a mark in industry and public life. They are taking significant interest in the affairs of the institute and will continue to do so in future.

## 2.8 EXAMINATION AND EVALUATION:

The Academic Branch of the institute centrally conducts the mid-semester, end semester and supplementary examinations in respect of theory components of the subjects unless otherwise permitted. The answer copies are kept by the subject teacher/examiner/ HODs.

## 2.9 ASSESSMENT OF PERFORMANCE (UG COURSE)

There is continuous assessment of student's performance throughout the semester and grades are awarded accordingly by the subject Teacher/Co-ordination Committee formed for this purpose:-

| Grade | Percentage score, X     |
|-------|-------------------------|
| A     | $X \geq 85\%$ and above |
| AB    | $85\% \geq X \geq 75\%$ |
| B     | $75\% \geq X \geq 65\%$ |
| BC    | $65\% \geq X \geq 55\%$ |
| C     | $55\% \geq X \geq 45\%$ |
| D     | $45\% \geq X \geq 40\%$ |
| F     | $X < 40\%$              |

For subjects with a theory component, the subcomponent and the respective weightage assigned are given below:-

| Sub component             | Weightage  |
|---------------------------|------------|
| Mid –Semester Examination | 20%        |
| Class Test(s)             | 10%        |
| Assignments Etc.          | 10%        |
| End-Semester examination  | 60%        |
| <b>Total</b>              | <b>100</b> |

**2.9.1 Project Work:**

The evaluation and award of grades for major project shall be done by the Committee consisting of:

- Project Coordinator
- An External Examiner nominated by the Chairman (Senate) from the panel of examiners submitted by Head of the Department in consultation with DUGC.
- Minimum two faculty members nominated by Head of the Department preferably one from other department.

**2.9.2 Course Structure (M. Tech. Programmes):****M. Tech./M. Arch. Programmes:**

Teaching Scheme:

**A. Distribution of Credits:**

The minimum credits for which a candidate must register are as under:-

| Minimum Credits Through Course Work |                          |                     | Minimum Credits Through Research  |                                   | Total Credits |
|-------------------------------------|--------------------------|---------------------|-----------------------------------|-----------------------------------|---------------|
| Programme Core (PC)                 | Programme Electives (PE) | Open Electives (OE) | Dissertation -3 <sup>rd</sup> Sem | Dissertation -4 <sup>th</sup> Sem |               |
| 24                                  | 11                       | 3                   | 12                                | 20                                | 70            |

**B. Semester-wise Distribution of Credits:**

(may vary as per the need of specific programme, but the requirement of minimum overall credits listed in A must be satisfied)

| Sem-1 | Sem-2 | Sem-3 | Sem-4 | Total Credits |
|-------|-------|-------|-------|---------------|
| 17    | 17    | 16    | 20    | 70            |

**C. Coding Scheme:**

| Course Code: <b>XXYZZ</b>  |                          |         |              |
|--|--------------------------|---------|--------------|
| XX: Dept/Centre Code, Y: Level of Course, ZZ: Specific Code for Course |                          |         |              |
| <b>YZZ</b>   |                          |         |              |
| Programme Core   | Programme/Open Electives | Seminar | Dissertation |
| 600 to 699   | 700 to 799               | 800     | 801          |

**XXCodes for Departments/Centres:**

| Dept/Centre            | Code | Dept/Centre       | Code |
|------------------------|------|-------------------|------|
| Civil Engineering      | CE   | Energy & Env.     | EN   |
| Comp Sc.& Engineering  | CS   | Material Sc&Engg. | MS   |
| Electrical Engineering | EE   | Physics           | PH   |
| Electronics & Comm.    | EC   | Chemistry         | CH   |

|                        |    |                              |    |
|------------------------|----|------------------------------|----|
| Engineering            |    |                              |    |
| Mechanical Engineering | ME | Mathematics                  | MA |
| Architecture           | AR | Humanities & Social Sciences | HS |

**D. Grade of Dissertation (XX-801):**

| Semester | Credits for Dissertation Work | Grade | Remarks  |
|----------|-------------------------------|-------|--|
| Sem-3    | 12                            | AAA   | A ∈ S X<br>A is awarded for each set of 4 units,<br>[S: Satisfactory, X: Unsatisfactory] |
| Sem-4    | 20                            | AAAAA |  |

**E. Minimum Credits To Be Earned For Award of Degree:**

For award of M. Tech./ M. Arch. degree a candidate should have earned minimum of 58 credits including 38 credits from course work (Programme Core, Programme Electives & Open Electives) and 20 credits from the dissertation work.

**F. Self-Study Course:**

Self-study course will be related to the research/specialization area of a candidate. The concerned supervisor will act as course coordinator who will be responsible for proposing the course name and syllabus for approval of the DPGC. The evaluation pattern of the course shall be decided in the respective DPGC.

Department of .....

M.Tech., .....

Teaching Scheme

**FIRST SEMESTER**

| Sr. No.      | Course No. | Course Title         | L         | T        | P        | Hours/Week | C         |
|--------------|------------|----------------------|-----------|----------|----------|------------|-----------|
| 1.           | XX-600     | Programme Core-1     | 3         | 0        | 0        | 3          | 3         |
| 2.           | XX-601     | Programme Core-2     | 3         | 0        | 0        | 3          | 3         |
| 3.           | XX-602     | Programme Core-3     | 3         | 0        | 0        | 3          | 3         |
| 4.           |            | Programme Elective-1 | 3         | 0        | 0        | 3          | 3         |
| 5.           |            | Programme Elective-2 | 3         | 0        | 0        | 3          | 3         |
| 6.           | XX-603     | Laboratory-1         | 0         | 0        | 3        | 3          | 2         |
| <b>Total</b> |            |                      | <b>15</b> | <b>0</b> | <b>3</b> | <b>18</b>  | <b>17</b> |



**SECOND SEMESTER**

| Sr.No.       | Course No. | Course Title                         | L         | T        | P        | Hours/Week | C         |
|--------------|------------|--------------------------------------|-----------|----------|----------|------------|-----------|
| 1.           | XX-604     | Programme Core-4                     | 3         | 0        | 0        | 3          | 3         |
| 2.           | XX-605     | Programme Core-5                     | 3         | 0        | 0        | 3          | 3         |
| 3.           | XX-606     | Programme Core-6                     | 3         | 0        | 0        | 3          | 3         |
| 4.           |            | Programme Elective-3                 | 3         | 0        | 0        | 3          | 3         |
| 5.           |            | Open Elective-1<br>(from other Dept) | 3         | 0        | 0        | 3          | 3         |
| 6.           | XX-607     | Laboratory-2                         | 0         | 0        | 3        | 3          | 2         |
| <b>Total</b> |            |                                      | <b>15</b> | <b>0</b> | <b>3</b> | <b>18</b>  | <b>17</b> |

**THIRD SEMESTER**

| Sr.No.       | Course No. | Course Title   | L | T | P | Hours/Week | C         |
|--------------|------------|--|---|---|---|------------|-----------|
| 1.           | XX-799     | Self-Study   |   |   |   | 3          | 2         |
| 2.           | XX-800     | Seminar  | 0 | 0 | 3 | 3          | 2         |
| 3.           | XX-801     | Dissertation (to be continued in IV <sup>th</sup> Sem) |   |   |   | 24         | 12        |
| <b>Total</b> |            |  |   |   |   | <b>30</b>  | <b>16</b> |

**FOURTH SEMESTER**

| Sr. No.      | Course No. | Course Title   | L | T | P | Hours/Week | C         |
|--------------|------------|--|---|---|---|------------|-----------|
| 1.           | XX-801     | Dissertation<br>(continued from III <sup>rd</sup> Sem) |   |   |   | 40         | 20        |
| <b>Total</b> |            |  |   |   |   |            | <b>20</b> |

**Programme Electives**

XX-700 .....  
 XX-701 .....

**Open Electives**

XX-750 .....  
 XX-751 .....

**2.10 New Initiatives**

| <b>Academic Reform</b>   | <b>Activities to be under taken in brief.</b>  |
|--|--|
| 1. Flexibility in Academic programmes  | - Wide choice of electives in the curriculum   |
| 2. Introduction of reforms in student performance evaluation.  | - Continuous evaluation through test, quizzes, assignments, etc.<br>- Answer sheets after evaluation are shown to the students           |
| 3. Establishment of a system for teacher Performance appraisal by students, and teacher counseling.  | - Students feed back to the teachers is communicated   |
| 4. Providing incentives to faculty for participation in continuing education programme, consulting services to community and industry and for securing sponsored search & development projects.  | - Professional Development Allowance (PDA) to the faculty.<br>- Consultancy rules are well defined.<br>- Provision to get R& D projects. |
| 5. Establishment of system for recognizing merit and outstanding performance of teachers.  | -  |
| 6. Offering service packages that would attract and retain good quality faculty  | -  |
| 7. Establishment of a system for maintaining record of graduates and conducting regular tracer studies   | - A well defined record of the students is maintained.   |
| 8. Establishment of a governance systems with participation of stakeholders  | -  |
| 9. Establishment of modern management system-delegation of decision making, administrative and financial powers to senior functionaries with accountability.   | Deans & HODs are given some financial powers.  |
| 10. Modernization of administrative and financial management system to increase staff and students friendliness, increase time efficiency and resource efficiency.   | -  |
| 11. Establishment of corpus Fund for development activities, a staff development fund for supporting critical staff development activities, Depreciation Fund for modernization of teaching and training facilities and Maintenance fund for up keep of equipment and physical infrastructure. | Corpus fund is maintained  |
| 12. Instituting measures for increasing  |  |

|   |   |
|---|---|
| recovery of cost of education.  | -   |
| 13. Instituting practices for maximizing utilizing of resources and reducing wastage  | - Duplication of resources is avoided.<br>- A log register is maintained for every costlier equipments.   |
| 14. Establishment of mechanisms for regular quality and efficiency audit of institutional activities including academic processes and administrative procedures | Audits are performed on regular basis.  |
| 15. Examination reforms implemented in the Institute during the recent past   | <p>1. For smooth conduct of mid semester/end semester &amp; Supplementary examination, central examination cell under the control of faculty member designated as Controller of Examination (COE) was created.</p> <p>2. In order to have some secrecy in examination, Controller of Examination can get one or two papers per class set externally in consultation with the Dean (Academic)/ Director of the institute.</p> <p>3. In order to have transparency in evaluation system after evaluation, the concerned teacher will show answer scripts to the students and thereafter all the answer scripts are to be deposited and kept in the respective department for at least six months before destroying them.</p> <p>4 Still if a student have some doubt he may apply for revaluation of his answer sheet on prescribed format with in a stipulated time period.</p> <p>5. The concerned Department Undergraduate Committees (DUGCs) were asked &amp; look into the distribution of course contents into suitable no of units. However, the end-semester question papers should cover the entire syllabi giving at least 25% weightage for the portion covered till Mid Semester Examination. The Senate Undergraduate Committee (SUGC) should provide guidelines for uniformity.</p> <p>6. Flying Squad for Mid Semester Examination as well as End-Semester Examination constituted by office of Dean (Acad.)/COE for checking unfair means (UMC)</p> |



|  |   |
|--|---|
|  | <p>during the conduct of examination.</p> <p>7. Committee constituted at the institute level shall look into UMC cases and take appropriate decision.</p> <p>8. Admission for Ph.D programme is made through centralized process at Institute level by conducting Entrance Exam. by setting MCQ type question paper from outside Experts of reputed Institute/University.</p> |
|--|---|

### 2.11 Placement:

The Training & Placement Cell was established in this Institute in the year 1995. Since than lot of activities are being conducted within the ambit of this cell for the benefit of the students and faculty.

### 2.12 Games & Sports:

National Institute of Technology, Hamirpur is one of the premier technical institutes in Northern India. The Institute presently provides sports facilities for both indoor and outdoor activities. A standard size stadium with the provision of pavilion has been provided to the students where the games like Cricket, Football, Hockey, Basket Ball, Lawn Tennis and Athletics are played. The facilities of separate Basket ball and lawn tennis court with the provision of flood lights have also been provided to our students. We have got the provision of indoor hall for Badminton and other indoor games and gymnasium facilities with latest physical fitness machines for both boys and girls separately. The facilities of Billiards and pool table for our students and staff have also been provided:



### 2.13 Staff Position:

#### 2.13.1 Faculty

| Name of the Department                    | Professor           |             | Associate Professor |                     | Assistant Professor |           | Total faculty in position |
|---|---------------------|-------------|---------------------|---------------------|---------------------|-----------|---------------------------|
|   | Sanctioned strength | In position | Total               | Sanctioned strength | In position         | Total     |                           |
| Civil Engineering                         | 05*                 | 05*         | 05*                 | 74                  | 04                  | 04        | 150                       |
| Electrical Engineering                    | 04                  | 04          | 04                  |                     | 06                  | 06        |                           |
| Mechanical Engineering                    | 03                  | 03          | 03                  |                     | 06                  | 06        |                           |
| Computer Science & Engineering            | 01                  | 01          | 01                  |                     | 03                  | 03        |                           |
| Electronic & Communication Engineering    | 02                  | 02          | 02                  |                     | 06                  | 06        |                           |
| Architecture                              | 02                  | 02          | 02                  |                     | 01                  | 01        |                           |
| Mathematics                               | 02                  | 02          | 02                  |                     | 01                  | 01        |                           |
| Physics                                   | 00                  | 00          | 00                  |                     | 03                  | 03        |                           |
| Chemistry                                 | 01                  | 01          | 01                  |                     | 02                  | 02        |                           |
| Humanities & Social Sciences              | 01                  | 01          | 01                  |                     | 01                  | 01        |                           |
| Centre for Energy & Environment           | 02                  | 02          | 02                  |                     | 01                  | 01        |                           |
| Centre for Material Science & Engineering | 01                  | 01          | 01                  |                     | 01                  | 01        |                           |
| Training & Placement                      | 00                  | 00          | 00                  |                     | 00                  | 00        |                           |
| Physical Education                        | 00                  | 00          | 00                  |                     | 01                  | 01        |                           |
| Chemical                                  | 00                  | 00          | 00                  |                     | 00                  | 00        |                           |
| Management                                | 00                  | 00          | 00                  |                     | 00                  | 00        |                           |
| <b>Total</b>                              |                     | <b>24</b>   | <b>24</b>           | <b>36</b>           | <b>36</b>           | <b>62</b> | <b>122</b>                |

## 2.13.2

**Head of the Institute :**

| Sr. No. | Name of the post | Sanctioned strength | In position |
|---------|------------------|---------------------|-------------|
| 1       | Director         | 01                  | 01          |
|         | <b>Total</b>     | <b>01</b>           | <b>01</b>   |

**Academic Staff:**

| Sr. No. | Name of the post    | Sanctioned strength | In position |
|---------|---------------------|---------------------|-------------|
| 1       | Professor           | 37                  | 24          |
| 2       | Associate Professor | 74                  | 36          |
| 3       | Assistant Professor | 150                 | 62          |
|         | <b>Total</b>        | <b>261</b>          | <b>122</b>  |

## 2.13.3

**(A) Officers:**

| Sr. No. | Name of the Post                 | Sanctioned Strength | In Position |
|---------|----------------------------------|---------------------|-------------|
| 1.      | Registrar                        | 01                  | 01*         |
| 2.      | Deputy Registrar                 | 03                  | 02**        |
| 3.      | Assistant Registrar              | 07                  | 03          |
| 4.      | Executive Engineer               | 01                  | 01**        |
| 5.      | Engineer                         | 02                  | 02          |
| 6.      | Assistant Librarian              | 02                  | 02          |
| 7.      | Sr. Medical Officer              | 01                  | --          |
| 8.      | Medical Officer                  | 01                  | 01          |
| 9.      | Sr. Scientific/Technical Officer | 04                  | --          |
| 10.     | Scientific/Technical Officer     | 04                  | 03          |
|         | <b>Total</b>                     | <b>26</b>           | <b>15</b>   |

\* Officiating

\*\* On deputation

**(B) Technical Higher:**

| Sr. No. | Name of the Post  | Sanctioned Strength | In Position |
|---------|---|---------------------|-------------|
| 1       | Technical Assistant/ Junior Engineer/ SAS Assistant/Sr. Pharmacist                              | 31                  | 17          |
| 2       | Sr. Technical Assistant/ Assistant Engineer/ Sr. SAS Assistant/ Pharmacist SG-II                | 23                  | 10          |
| 3       | Technical Assistant (SG –II) Assistant Executive Engineer SAS Assistant (SG-II)/Pharmacist SG-I | 16                  | 02          |
| 4       | Technical Assistant (SG-I) Executive Engineer, SAS Assistant (SG-I)                             | 08                  | --          |
|         | <b>Total</b>  | <b>78</b>           | <b>29</b>   |

**(C) Technical Lower:**

| Sr. No. | Name of the Post  | Sanctioned Strength | In Position |
|---------|---|---------------------|-------------|
| 1       | Technician , Lab. Assistant, Work Assistant, Driver                           | 31                  | 11          |
| 2       | Sr. Technician, Sr. Lab Assistant, Sr. Work Assistant                         | 23                  | 17          |
| 3       | Technician (SG-II), Lab Assistant (SG-II), Work Assistant (SG-II), Pharmacist | 16                  | 04          |
| 4       | Technician (SG-I), Lab Assistant(SG-I), Work Assistant (SG-I)                 | 08                  | 01          |
|         | <b>Total</b>  | <b>78</b>           | <b>33</b>   |

**(D) Administrative/Stenographer (Higher):**

| Sr. No. | Name of the Post                          | Sanctioned Strength | In Position |
|---------|---|---------------------|-------------|
| 1       | Superintendent/ Accountant/ Secretary     | 09                  | 10          |
| 2       | Sr. Superintendent/Sr. Secretary          | 06                  | 06          |
| 3       | Superintendent SG-(II)/ Secretary (SG-II) | 04                  | 02          |
| 4       | Superintendent SG-(I)/ Secretary (SG-I)   | 02                  | 01          |
|         | <b>Total</b>                              | <b>21</b>           | <b>19</b>   |

**(E) Administrative/Stenographer (Lower):**

| Sr. No. | Name of the Post                       | Sanctioned Strength | In Position |
|---------|--|---------------------|-------------|
| 1       | Jr. Assistant                          | 18                  | 12          |
| 2       | Sr. Assistant/ Stenographer            | 13                  | 11          |
| 3       | Assistant(SG-II) / Sr. Stenographer    | 09                  | 11          |
| 4       | Assistant (SG-I)/ Stenographer (SG-II) | 04                  | 05          |
| 5       | Stenographer (SG-I)                    | 01                  | 01          |
|         | <b>Total</b>                           | <b>45</b>           | <b>40</b>   |

**(F) Supporting Staff:**

| Sr. No. | Name of the Post   | Sanctioned Strength | In Position |
|---------|--|---------------------|-------------|
| 1       | Attendant/ Security Guard/ Mali/ Care Taker (Higher Scale) | 16                  | 69          |
| 2       | Sr. Attendant/ Security Guard/ Mali/ Care Taker            | 12                  | --          |
| 3       | Attendant/ Security Guard/ Mali/ Care Taker (SG-II)        | 08                  | --          |
| 4       | Attendant/ Security Guard/ Mali/ Care Taker (SG-I)         | 03                  |             |
|         | <b>Total</b>   | <b>39</b>           | <b>69</b>   |
|         | <b>Total (A to F)</b>                                      | <b>287</b>          | <b>201</b>  |



**2.13.7 Fresh Appointment faculty (Regular)- Nil****2.13.8 Fresh Appointment of technical staff (Contractual)**

| Sr. No. | Name               | Designation          | Department/Centre    |
|---------|--------------------|----------------------|----------------------|
| 1       | Mr. Brij Mohan     | Technician           | CSED                 |
| 2       | Mr. ShekharKaundal | Technician           | CSED                 |
| 3       | Mr. Suman Kumar    | Technician           | CSED                 |
| 4       | Ms. ParveenKumari  | Technician           | CSED                 |
| 5       | Mr. Sunil Kumar    | Technician           | CSED                 |
| 6       | Ms. ArpanaKumari   | Technician           | CSED                 |
| 7       | Ms. ArtiMankotia   | Technician           | CSED                 |
| 8       | Mr. Sandeep Kumar  | Technician           | CSED                 |
| 9       | Ms. Poonam         | Technician           | CSED                 |
| 10      | Ms. ApurtaAwasthi  | Technician           | CSED                 |
| 11      | Ms. SabnamKumari   | Technician           | CSED                 |
| 12      | Mr. Dinesh Kumar   | Technician           | CSED                 |
| 13      | Mr. Rahul Verma    | Technician           | CSED                 |
| 14      | Mr. Raj Kumar      | Technician           | CSED                 |
| 15      | Mr. ShashiGautam   | Technician           | CSED                 |
| 16      | Mr. Rakesh Kumar   | Laboratory Assistant | Physics Department   |
| 17      | Mr. Ravi Kumar     | Laboratory Assistant | Chemistry Department |
| 18      | Mr. Subir Kumar    | Laboratory Assistant | MED                  |
| 19      | Mr. MandeepSen     | Laboratory Assistant | MED                  |
| 20      | Mr. Devinder Pal   | Laboratory Assistant | CEEE                 |
| 21      | Mr. Ajay Kumar     | Laboratory Assistant | CEEE                 |
| 22      | Mr. Anil Kumar     | Laboratory Assistant | CMS&E                |
| 23      | Mr. Vivek Kumar    | Laboratory Assistant | CMS&E                |
| 24      | Mr. ManeshPatil    | Laboratory Assistant | EED                  |
| 25      | Mr. Rahul Jamwal   | Laboratory Assistant | CED                  |
| 26      | Ms. AnjanaKumari   | Laboratory Assistant | Arch.                |
| 27      | Ms. MamtaSen       | Laboratory Assistant | Arch.                |
| 28      | Mr. BadriNath      | Driver               | Vehicle Section      |
| 29      | Mr. Raman Kumar    | Driver               | Vehicle Section      |
| 30      | Mr. Jagdish Chand  | Driver               | Vehicle Section      |

**2.13.9 Fresh Appointment of faculty (Contractual)**

| Sr. No. | Name                     | Designation | Date of joining | Department |
|---------|--------------------------|-------------|-----------------|------------|
| 1       | Mr. Chandra Mohan Shakya | Lecturer    | 08.08.2013      | CED        |
| 2       | Mr. Shashi Kant Sharma   | Lecturer    | 29.08.2014      | CED        |
| 3       | Ms. Sandhya Gupta        | Lecturer    | 10.11.2014      | CED        |
| 4       | Ms. Swati Katwal         | Lecturer    | 28.02.2013      | EED        |
| 5       | Mr. NeerajKr.Mishra      | Lecturer    | 12.03.2014      | EED        |
| 6       | Mr. Naveen Kr. Sharma    | Lecturer    | 13.03.2014      | EED        |
| 7       | Mr. Digambar Singh       | Lecturer    | 11.03.2014      | EED        |
| 8       | Ms. KritiVaid            | Lecturer    | 28.04.2014      | EED        |
| 9       | Mr. Vinay Kumar Jadoun   | Lecturer    | 05.11.2014      | EED        |
| 10      | Mr. Karan Singh Joshal   | Lecturer    | 12.11.2014      | EED        |

|    |                                |                     |            |            |
|----|--------------------------------|---------------------|------------|------------|
| 11 | Mr. Arvind Dhaka               | Assistant Professor | 03.11.2014 | CSED       |
| 12 | Mr. Ramesh Kumar               | Assistant Professor | 03.11.2014 | CSED       |
| 13 | Ms. MenkaGoswami               | Assistant Professor | 03.11.2014 | CSED       |
| 14 | Ms. DeepikaKaundal             | Lecturer            | 18.03.2014 | CSED       |
| 15 | Mr. SomyaRanjanSahoo           | Lecturer            | 18.03.2014 | CSED       |
| 16 | Dr. Varun Gupta                | Lecturer            | 31.12.2014 | CSED       |
| 17 | Mr. Sanjay Bhandari            | Lecturer            | 06.03.2014 | Arch.      |
| 18 | Ms. Anjali Verma               | Lecturer            | 20.05.2014 | Arch.      |
| 19 | Ms. RashmiKumari               | Lecturer            | 17.11.2014 | Arch.      |
| 20 | Mr. TiwariPavanKumar Sumankant | Lecturer            | 17.11.2014 | Arch.      |
| 21 | Mr. Kuldhir Singh              | Lecturer            | 12.01.2015 | Arch.      |
| 22 | Dr. AnkushVij                  | Lecturer            | 04.03.2014 | CMSE       |
| 23 | Dr. SandhyaDwevedi             | Lecturer            | 11.03.2014 | CMSE       |
| 24 | Dr. Sanjay Kumar Mohanta       | Lecturer            | 18.03.2014 | CMSE       |
| 25 | Dr. AnuradhaSonker             | Lecturer            | 04.03.2014 | E&CED      |
| 26 | Dr.AmitaNadal                  | Lecturer            | 04.03.2014 | E&CED      |
| 27 | Mr. AshishGoswami              | Lecturer            | 03.11.2014 | E&CED      |
| 28 | Mr. Mithun Mukherjee           | Lecturer            | 14.03.2014 | E&CED      |
| 29 | Ms. AmandeepKaur               | Lecturer            | 17.11.2014 | E&CED      |
| 30 | Dr. Saurabh Kumar Pandey       | Lecturer            | 17.11.2014 | E&CED      |
| 31 | Dr. Vishal Walia               | Assistant Professor | 17.08.2012 | Mathmatics |
| 32 | Sh. MukundDutt Sharma          | Lecturer            | 08.07.2014 | MED        |
| 33 | Mr. AshwaniTayal               | Lecturer            | 08.07.2014 | MED        |
| 34 | Mr. SaurabhKango               | Lecturer            | 08.07.2014 | MED        |
| 35 | Mr. Gurpreet Singh             | Lecturer            | 17.07.2014 | MED        |
| 36 | Mr. AmanHira                   | Lecturer            | 28.08.2014 | MED        |
| 37 | Ms. ShivaniChaudhary           | Lecturer            | 04.03.2014 | H&SS       |
| 38 | Dr. PrakashBhaudury            | Lecturer            | 04.03.2014 | H&SS       |
| 39 | Dr. NishaKumari                | Assistant Professor | 23.08.2012 | H&SS       |
| 40 | Mr. Rajesh Kumar               | Lecturer            | 10.09.2013 | H&SS       |
| 41 | Dr. Vijay Singh                | Lecturer            | 31.07.2014 | Chemical   |
| 42 | Dr. AmitRai                    | Lecturer            | 14.11.2014 | Chemical   |
| 43 | Dr. DeepaSrivastava            | Lecturer            | 17.11.2014 | CEEE       |
| 44 | Mr. Akshay Kumar Verma         | Lecturer            | 15.12.2014 | CEEE       |
| 45 | Mr. Ruhit Singh Konwar         | Lecturer            | 15.12.2014 | CEEE       |

#### 2.13.10 Staff Relieved on Lien (EOL/Deputation-cum-Study Leave)/QIP

| Sr. No. | Name                      | Designation         |
|---------|---------------------------|---------------------|
| 1       | Prof. R. L. Sharma        | Professor           |
| 2       | Prof. Lalit Kumar Awasthi | Professor           |
| 3       | Prof. RakeshSehgal        | Professor           |
| 4       | Dr. Raman Parti           | Professor           |
| 5       | Dr. Sant Ram Chauhan      | Associate Professor |
| 6       | Mrs. AmanjeetKaur         | Assistant Professor |
| 7       | Er. ManoranjanRaiBharti   | Assistant Professor |
| 8       | Er. ChanderPrakash        | Assistant Professor |
| 9       | Er. Krishan Kumar         | Assistant Professor |

## 3.0

**DEPARTMENT OF CIVIL ENGINEERING****1. ACADEMIC STAFF**

**Head** Dr. Pardeep Kumar  
Ph.D

**2. Faculty:**

| Professor                           | Associate Professor                 | Assistant Professor                                  | Lecturer on contract                     |
|-------------------------------------|-------------------------------------|--|--|
| Prof. Rajnish Shrivastava<br>Ph.D.  | Dr. Pardeep Kumar<br>Ph.D.          | Dr. Umesh Kumar<br>Pandey Ph.D.                      | Sh. Shashi Kant Sharma                   |
| Dr. R. L. Sharma<br>Ph. D.(On lien) | Dr. R. S. Banshtu<br>Ph.D.          | Sh. Chander Prakash<br>M. Tech. (Ph. D.<br>Pursuing) | Sh. Sandeep Panchal                      |
| Dr. V. K. Sarda<br>Ph.D.            | Dr. Vijay Shankar<br>Dogra<br>Ph.D. | Dr. Hemant Kumar<br>Vinayak Ph.D.                    | Sh. Vikas                                |
| Dr. R. K. Sharma<br>Ph.D.           | Dr Vijay Kumar Bansal<br>Ph.D.      | Dr. Sunil Sharma Ph. D                               | Sh. Mohsin Khan                          |
| Dr. Raman Parti<br>Ph.D.            |                                     | Dr. Dharmendra Ph.D.                                 | Er. Sushma verma                         |
| Dr. R. K. Dutta<br>Ph.D.            |                                     | Dr. V. N. Khatri Ph.D.                               | Er. Kalpana Devi                         |
|                                     |                                     | Dr. K. Nallasivam<br>Ph.D.                           | Er. Rupali Sarmah                        |
|                                     |                                     | Dr. Amrit Kumar Roy<br>Ph. D.                        | Er. Anupam Anand<br>Bharti               |
|                                     |                                     |  | Er. Anurag Sharma<br>Er. Radha Raman Jha |

### 3. **DISTINCTION ACHIEVED:**

**By Student:** 20 students qualified GATE 2016 above 93 percentile.

**By faculty Member:**

#### **REVIEWERS OF JOURNALS/EDITORIAL BY FACULTY**

1. Structural Engineering International, Journal of International association of Bridge and Structural Engineers, Zurich, Switzerland.
2. International Journal of Engineering, Ireland.
3. International Journal of Earth Sciences & Engineering (ISSN 0974-5904)*Indexed in CAS-USA- Reference No: 172238*
4. Construction and Building Materials, Elsevier ISSN: 0950-0618
5. Reviewer, Asian Journal Water, Environment and Pollution.
6. Reviewer, Highway Research Journal.
7. Reviewer, Journal of Indian Society of Remote Sensing.
8. Reviewer, IRC Journal.
9. Reviewer, Journal of Indian Highways.
10. International Journal of Civil Engineering.
11. American Society of Civil Engineers (**ASCE**)
12. International Journal of Project Management (**Elsevier Science**)
13. Automation in Construction, (**Elsevier Science**)
14. Construction Management and Economics (**Taylor & Francis**)
15. International Journal of Construction Management (**Taylor & Francis**)
16. Construction Innovation (**Emerald**)
17. Journal of Civil Engineering and Construction Technology
18. Int. Journal of Civil Engineering by **Institution of Engineers UK**
19. Structural Engineering and Mechanics-(*Techno Press*)
20. Nonlinear Dynamics-(*Springer*)
21. Earthquake Spectra-(*EERI-California*)
22. Latin American Journal of Solids and Structures-(*Brazilian society of computational Mechanics*)
23. Scientific Research and Essays.
24. ICFAI Journal of Structural Engineering.
25. International Journal of Geotechnical Engineering.
26. International Conference on Urbanism and Green Architecture “CONUGA-10” held on 30-31 Oct 2010 at NIT Hamirpur.
27. Editor, Scientific and Technical Committee of Engineering and Applied Sciences of WASET
28. Editor-in-chief, Bioinfo International Journal of Information Systems Engineering
29. Editor-in-chief, Bioinfo International Journal of Optimization Theory and Applications
30. Chief Editor, World Research Journal of Civil Engineering
31. Examiner, Rajasthan Technical University, Punjab Technical University, H.P. Technical University, NIT Kurukshetra



#### 4. SEMINAR SYMPOSIA, SUMMER SCHOOL, WINTER SCHOOL, SHORT TERM COURSE:-

##### (a) Conducted in the Institute.

| Sr. No. | Name of the Conference, STC's and Seminars Organised  | Duration   |
|---------|---|--|
| 1.      | Inter-disciplinary STC on "Numerical and Computational Methods in Engineering" NCME – 2015, under TEQIP – II.                           | June 30 <sup>th</sup> – July 4 <sup>th</sup> , 2015  |
| 2.      | STTP on "Developing Competence Among Faculty for Promoting Entrepreneurs among Students", under TEQIP – II.                             | July 11 <sup>th</sup> – 15 <sup>th</sup> , 2015      |
| 3.      | Numerical and Computational Methods in Engineering (NCME-15). TEQIP-II  | June 30 <sup>th</sup> - July 04 <sup>th</sup> , 2015 |
| 4.      | International Workshop on "Mitigating Climate Change Impacts" (MICCI – 2015), fully sponsored under MoES-NERC funded Research Project.  | June 5 <sup>th</sup> , 2015                          |
| 5.      | I/D Course on "Characterizing the uncertainties in climate change impacts assessment for water resources" under GIAN initiative of MHRD | February 22 <sup>nd</sup> – 26 <sup>th</sup> , 2016  |
| 6.      | STAAD-PRO Workshop for Students under the aegis of C-Helix, the departmental team of Civil Engineering                                  | March 12 <sup>th</sup> – 13 <sup>th</sup> , 2016     |
| 7.      | "Bridge Design and Construction" in Civil Engineering Department, NIT Hamirpur.   | 22 <sup>nd</sup> January 2016                        |

**(b) Participation in Conferences/Seminars/Symposium/Workshops etc.**

| Name of faculty | Name of the Conf./ Seminar/ Symp./ Workshop  | Place and sponsored by | Dates   |
|-----------------|--|------------------------|---|
| Dr. V.S.Dogra   | ABET Accreditation and Program Assessment Workshop, in association with IEEE Education Society, India Council  | New Delhi              | September 30 <sup>th</sup> , 2015                   |
| Dr. V.S.Dogra   | UNESCO Regional capacity Development Workshop on “Ensuring water security in changing environment scenario for water professionals of cluster countries” | IIT Bombay             | November 26 <sup>th</sup> – 27 <sup>th</sup> , 2015 |
| Dr. V.S.Dogra   | 3 <sup>rd</sup> World Summit on Accreditation (WOSA) 2016  | New Delhi              | March 19-20, 2016                                   |

**4.). JOURNALS (INTERNATIONAL & NATIONAL):-****(i). International Journals Published by Faculties : 42****(ii). National Journals Published by Faculties : 06****International Journal**

1. Condition assessment of steel truss bridge using time frequency domain analysis Suresh Kumar Walia, Raj Kumar Patel, Hemant Kumar Vinayak, Raman Parti Facta Universitatis, Series: Architecture and Civil Engineering, (Accepted)
2. Direct Strut-And-Tie Model For Reinforced Concrete Bridge Pier Cap, Dr. Hemant Kumar Vinayak, Sivaa Senthil N.A.K, Pradeep Kumar T V, Mathematical Modelling in Civil Engineering, Vol. 12-No. 1: 1-8 - 2016, DOI: 10.1515/mmce-2016-0005. (June 2016)
3. Enhancing durability of adobe by natural reinforcement for propagating sustainable mud housing, Vandna Sharma, Bhanu Marwaha, Hemant K Vinayak, International Journal of Sustainable Built Environment, Vol 5, Issue 1, June 2016, Pages 141–155, doi:10.1016/j.ijsbe.2016.03.004.
4. Seismic Analysis of Well Foundation by Force and Displacement Method, Raj Narain Prasad Singh, Dr. Hemant Kumar Vinayak The Bridge and Structure Engineer, Indian National Group of the International Association

for Bridge and Structural Engineering, Vol. 46, No 1, March 2016, pp 45-52

5. Gupta, C., Sharma, R. K., (2016) "Black Cotton Soil Modification by the Application of Waste Materials", Periodica Polytechnica Civil Engineering, Technical Paper 8010-14294-1-ED (accepted for publication on 19.01.2016). (SCI Impact Factor 0.261).
6. Sharma, R. K., Hymavathi, J., (2016), "Effect of fly ash, construction demolition waste and lime on geotechnical characteristics of a clayey soil - a comparative study Environmental Earth Sciences, 75:377; 1-12 (DOI 10.1007/s12665-015-4796-6). (SCI Impact Factor 1.765).
7. Devatha, C.P., Shankar, V., and Ojha, C.S.P. (2016). "Assessment of Soil Moisture Uptake under Different Salinity Levels for Paddy Crop". ASCE Journal of Irrigation and Drainage Engineering, DOI: 10.1061/(ASCE)IR.1943-4774.0001009, 1-10.
8. Kumar, S., and Bansal, V.K. (2016). "A GIS-based methodology for safe site selection of a building in a hilly region." *Frontiers of Architectural Research*, 5(1), 39-51.
9. Ritika Semwal and Dharmendra (2016) "Environmental Concern and Threat Investigation Due to Malpractices in Biomedical Waste Management: A Review" International Journal of Advances in Science Engineering and Technology (IJASEAT) Vol.-4, Issue-2, 148-153, ISSN (Print) 2321-8991
10. Ajay Chalotra and Dharmendra (2016) "Environmental Impact Assessment (EIA) Practices In Different Countries: A Review" International Journal of Modern Trends in Engineering and research Vol.-3, Issue-4, , ISSN (Print) 2393-8161, Impact Factor 3.518 by SJIF
11. Sachin Sankar and Dharmendra (2016) "Electrocoagulation for the treatment of water and waste water- A review" International Journal of Modern Trends in Engineering and research Vol.-3, Issue-4, , ISSN (Print) 2393-8161, Impact Factor 3.518 by SJIF
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14. Dutta, R.K. and Kumar, V (2016),"Suitability of flyash-lime- phosphogypsum composite in road pavements," Periodica Polytechnica Civil Engineering, 60(3), 455-469.
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18. Dutta, R.K. and Gupta, R. (2016),"Prediction of unsoaked and soaked California bearing ratio from index properties of soil using artificial neural networks", International Journal of Civil Engineering and Applications, 5(1), <http://rfgindia.com/JournalsDetails.aspx?JRNLID=38>
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21. Assessment of Soil-Structure Interaction in Seismic Bridge Pier Analysis Using Force and Displacement Based Approaches R N P Singh, Hemant Kumar Vinayak SSP – Journal of Civil Engineering, Vol. 10, no. 2, p.p 113-126 (Nov 2015).
22. Seismic Bridge Pier Analysis Considering Soil Structure Interaction by Force And Displacement Based Approaches R N P Singh, Hemant Kumar Vinayak, International Journal of Earthquake Engineering and Hazard Mitigation, Vol. 3, no. 3, p.p 69-78 (Sept 2015).



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29. Kumar, S., and Bansal, V.K. (2015). "Framework for safe site layout planning in hilly regions." *European Journal of Advances in Engineering and Technology*, 2(4), 14-19.
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34. Dharmendra and Rasma K. (2015) “Dye Removal On Low Cost Adsorbent Media Developed From Pine Cone” International Conference on Geo-Engineering and Climate Change Technologies for Sustainable Environmental Management (GCCT-2015) October 9-11, 2015 MNNIT Allahabad, India. P-100.
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39. Joshi, V.C., Dutta R.K. and Shrivastava, R. (2015), "Ultimate bearing capacity of circular footing on layered soil," Journal of Geoenvironment, 10(1), 25-34.
40. Sharma, R. K. and Hymavathi, J., “Comparative Study of Compaction and Strength of Soil Modified with Fly Ash and Construction Demolition Waste”, Journal of Indian Highways, Vol. 44, No. 5, pp. 9 – 15, May 2016, Indian Roads Congress, New Delhi.
41. An Inventory Study on Landslide Hazard Zonation of Kullu Valley of Central Himalaya zone, Himachal Pradesh, India. {IA-E International Conference Proceedings: ICESIT-15, ICAAME'205, ICFNCE'2015, Dubai (UAE)}.
42. Microzonation and Analyses of Landslide in Lag Valley of District Kullu, Himachal Pradesh, India. (1<sup>st</sup> International conference on Disaster Mitigation and Management for Sustainable Development and Risk Reduction, National Institute of Technology Tiruchirappalli, Tamilnadu State India, 2016.)

**(ii) National Journal**

1. Seismic analysis of well foundation by forced and displacement method, R N P Singh, Hemant Kumar Vinayak, Journal of the Indian National Group of the International Association for Bridge & Structural Engineering. (Accepted).
2. Damage Identifications in a Through Type Steel Truss Bridge Model, Suresh Kumar Walia, Hemant Kumar Vinayak, Ashok Kumar, Raman Parti. Journal of the Indian National Group of the International Association for Bridge & Structural Engineering. (Accepted).
3. Lavanya G., Khatri V.N. and Dutta R.K. (2016), "Effect of stabilised granular column on the pressure settlement behaviour of clay", Indian Journal of Geosynthetics and Ground Engineering, 5(2), 3-15.
4. Khatri V.N., Kumar M. and Dutta R.K. (2016), "Effect of chemically treated coir fibres on the strength characteristics of clay", Indian Journal of Geosynthetics and Ground Engineering, 5(1), 11-23.
5. S.K. Verma, A.K Roy, Sunil Lather and Manoj Sood (2015), "CFD Simulation for Wind Load on Octagonal Tall Buildings", International Journal of Engineering Trends and Technology (IJETT), Vol. 24, pp. 211-216. (Impact Factor: 1.795)
6. Kumar, R., Dutta, R.K. and Dutta, K. (2015), "Mobile App using ASTM system of soil classification", CPUH-Research Journal, 1(2), 49-53.

**5 Expert lectures delivered:-**

| Sr. No. | Topic  | Course/Programme  | Name of Expert | Institute/ Organisation                                 |
|---------|--|---|----------------|---|
| 1.      | Climate Change Considerations in Planning Transportation Systems | June 17 <sup>th</sup> , 2015, Short Term Course on Transportation Systems, TS – 2015, June 15 <sup>th</sup> – 19 <sup>th</sup> , 2015 | Dr. V.S.Dogra  | Department of Mechanical Engineering, NIT Hamirpur (HP) |
| 2.      | Finite Difference Method- Applications                           | July 3 <sup>rd</sup> , STC on Numerical and Computational Methods in Engineering NCME 2015, June 30 <sup>th</sup> –                   | Dr. V.S.Dogra  | Department of Civil Engineering, NIT Hamirpur, H.P      |

|    |  |   |                |   |
|----|--|---|----------------|---|
|    |  | July 4 <sup>th</sup> , 2015   |                |   |
| 3. | Application of Tri-diagonal Matrix   | July 4 <sup>th</sup> , STC on Numerical and Computational Methods in Engineering NCME 2015, June 30 <sup>th</sup> – July 4 <sup>th</sup> , 2015                                       | Dr. V.S.Dogra  | Department of Civil Engineering, NIT Hamirpur, H.P  |
| 4. | Modeling Techniques  | July 4 <sup>th</sup> , STC on Numerical and Computational Methods in Engineering NCME 2015, June 30 <sup>th</sup> – July 4 <sup>th</sup> , 2015                                       | Dr. V.S.Dogra  | Department of Civil Engineering, NIT Hamirpur, H.P  |
| 5  | Understanding the Process of Climate Change, Impacts and Current Scenario          | February 22 <sup>nd</sup> , I/D Course on “Characterizing the uncertainties in climate change impacts assessment for water resources” under GIAN initiative of MHRD, Feb. 22-26, 2016 | Dr. V.S.Dogra  | Department of Civil Engineering, NIT Hamirpur, H.P  |
| 6  | Climate Change Perspectives, World Order on Challenges, and Uncertainties Involved | February 26 <sup>th</sup> , I/D Course on “Characterizing the uncertainties in climate change impacts assessment for water resources” under GIAN initiative of MHRD, Feb. 22-26, 2016 | Dr. V.S.Dogra  | Department of Civil Engineering, NIT Hamirpur, H.P. |
| 7  | A road-based 3D navigation system in GIS: a case study of an                       | STC on Exploring Science of Transportation Systems Jun. 17 <sup>th</sup> , 2015   | Dr. V.K.Bansal | Department of Civil Engineering, NIT Hamirpur, H.P. |



|    |   |  |                |   |
|----|---|--|----------------|---|
|    | institute campus                                    |  |                |   |
| 8  | Spatial analysis in engineering science.            | STC on Numerical and Computational Methods in Engineering (NCME-15).July 03 <sup>th</sup> , 2015             | Dr. V.K.Bansal | Department of Civil Engineering, NIT Hamirpur, H.P. |
| 9  | GIS applications in engineering science.            | STC on Numerical and Computational Methods in Engineering (NCME-15).July 03 <sup>th</sup> , 2015             | Dr. V.K.Bansal | Department of Civil Engineering, NIT Hamirpur, H.P. |
| 10 | “Introduction to Finite Element Methods-Basics”     | MHRD/AICTE Winter school between June 30-04 July 2015 on “Numerical and Computational Methods in Engineering | Dr. U.K.Pandey | NIT Hamirpur  |
| 11 | “Seismic Loading Considerations for RCC Structures” | MHRD/AICTE STC on “Advances in RCC Structures Design & Analysis”   | Dr. U.K.Pandey | NITTTR Chandigarh                                   |
| 12 | “Design of Earthquake Resistant Structures”         | MHRD/AICTE STC on “Advances in RCC Structures Design & Analysis”   | Dr. U.K.Pandey | NITTTR Chandigarh                                   |

#### 6 Consultancy services:

| Sr. No. | Name of The Test                                      | Sponsored Agency   | Amount           |
|---------|---|--|------------------|
| 1.      | Routine Testing of Cement Aggregate Samples           | HPPWD, IPH, SJVNL, Power Grid Corporation of India, Unipro Techno, | Rs.1,61,08,315/- |
| 2.      | Field Testing of Soil Bearing Capacity and Testing of | HPPWD, IPH, SJVNL, Power Grid                                      |                  |

|    |  |  |  |
|----|--|--|--|
|    | Various soil Samples                               | Corporation of India,<br>Unipro Techno,                                  |  |
| 3. | Design of Multistoried building                    | HPPWD, IPH,<br>SJVNL, Power Grid Corporation of India,<br>Unipro Techno, |  |
| 4. | Routine testing of CBR, Bitumen , Coarse Aggregate | HPPWD, IPH,<br>SJVNL, Power Grid Corporation of India,<br>Unipro Techno, |  |
| 5. | STA for PMGSY                                      | Ministry of Rural Roads Government of India                              |  |

## 7 M. Tech. completed in 2015

| Sr. No. | Specialization                              | Guide             | Name of the Student        |
|---------|---|-------------------|----------------------------|
| 1       | Geotechnical Engineering & Under Structures | Dr. R.K Sharma    | ADITYA PAPRIWAL            |
| 2       |   |                   | BIKASH BHUYAN              |
| 3       |   |                   | JAMPANI HYMAVATHI          |
| 4       |   | Dr. R.K Dutta     | JEEVANANDHA M S            |
| 5       |   |                   | ATULRAJ P                  |
| 6       |   |                   | SATULURI SRI LAKSHMI DURGA |
| 7       |   |                   | VIPIN CHANDRA JOSHI        |
| 8       | Structural Engineering                      | Dr. V.N Khatri    | SOMEN SUTRADHAR            |
| 9       |   |                   | LAVANYA G                  |
| 10      |   |                   | SHIBA PRASAD DEBBARMA      |
| 11      |   | Dr. Pardeep Kumar | SANDEEP PETWAL             |
| 12      |   |                   | NARENDRA SINGH NEGI        |

|    |                                    |                     |                      |
|----|------------------------------------|---------------------|----------------------|
| 13 |                                    |                     | AJEET SINGH          |
| 14 |                                    | Dr. V.K Bansal      | ABHINAV GUPTA        |
| 15 |                                    |                     | SHEKAR SINGH         |
| 16 |                                    | Dr.U.K Pandey       | RAHUL KUMAR          |
| 17 |                                    |                     | SUMIT SAHOO          |
| 18 |                                    | Dr. K Nallasivam    | MOHAMMED NASHEER N   |
| 19 |                                    |                     | RAKESH KUMAR         |
| 20 |                                    |                     | RAHUL DHANKAR        |
| 21 |                                    | Dr. Amrit Kumar Roy | MANOJ SOOD           |
| 22 |                                    |                     | MOHAMMAD MOHSIN KHAN |
| 23 |                                    | Dr. H.K Vinayak     | HARSHVARDHINI SUMAN  |
| 24 | Transportation Systems Engineering | Dr. Raman Parti     | VIVEK SHARMA         |
| 25 |                                    |                     | KOKIL AGARWAL        |
| 26 |                                    |                     | ABHIMANYU GUPTA      |
| 27 |                                    |                     | HIMANSHU VERMA       |
| 28 |                                    |                     | RANJAN KUMAR SWAIN   |
| 29 |                                    | Er. Sunil Sharma    | SHASHANK GUPTA       |
| 30 |                                    |                     | MACHAVARAPU SURESH   |
| 31 |                                    |                     | ANKUR RUNGTA         |
| 32 |                                    |                     | RANJEESH R           |

|    |                             |               |                       |
|----|-----------------------------|---------------|-----------------------|
| 33 |                             |               | JAGBIR                |
| 34 |                             |               | NITURAJ WARY          |
| 35 | Water Resources Engineering | Dr.V.K Sarda  | ARUN CHAUKIYAL        |
| 36 |                             |               | SACHIN                |
| 37 |                             |               | KUMAR MAYANK SINGH    |
| 38 |                             |               | LAXMI LINGGI          |
| 39 |                             |               | ANKIT NEGI            |
| 40 |                             |               | NITIN LEKHRA          |
| 41 |                             |               | SUMIT JAISWAL         |
| 42 |                             |               | KRISHAN PAL SHEKHAWAT |
| 43 | Environmental Engineering   | Dr.V.K Sarda  | M. POORANI            |
| 44 |                             |               | DEEKSHA TIWARI        |
| 45 |                             | Dr.Dharmendra | PETLA SRI HARI        |
| 46 |                             |               | RASMA K               |
| 47 |                             | Dr.S.S Katoch | HIMANSHU GUPTA        |

## 8 M.Tech Admission in 2015

| Sr. No. | Specialization                              | Guide          | Name of the Student |
|---------|---|----------------|---------------------|
| 1       | Geotechnical Engineering & Under Structures | Dr. R.K Sharma | 15M102              |
| 2       |   |                | 15M105              |
| 3       |   |                | 15M109              |
| 4       |   |                | 15M112              |

|    |                                    |                        |                      |
|----|------------------------------------|------------------------|----------------------|
| 5  |                                    |                        | 15M115               |
| 6  |                                    |                        | Anuj Pal             |
| 7  |                                    |                        | Suman Kumari         |
| 8  |                                    |                        | Surya Pratap Singh   |
| 9  |                                    |                        | Ajay                 |
| 10 |                                    |                        | Radha Rani           |
| 11 |                                    |                        | Uddayan Pratap Singh |
| 12 |                                    |                        | Vivek Thakur         |
| 13 | Structural Engineering             | Dr. Pardeep Kumar      | ANAND KUMAR R        |
| 14 |                                    |                        | NISHI GANGWAR        |
| 15 |                                    | Dr.V.K Bansal          | ASHISH SINGH         |
| 16 |                                    |                        | DINESH KUMAR         |
| 17 |                                    | Dr.U.K Pandey          | GOVIND MOHAN         |
| 18 |                                    |                        | KAILASH KUMAR        |
| 19 |                                    | Dr. K Nallasivam       | RAVI KUMAR           |
| 20 |                                    |                        | ISHAN SHANKER VATS   |
| 21 |                                    | Dr. Amrit Kumar Roy    | ATUL SARDALIA        |
| 22 |                                    |                        | RAHUL SHARMA         |
| 23 |                                    | Dr. H.K Vinayak        | ATAUR REHMAN         |
| 24 |                                    |                        | BHARAT KHULLAR       |
| 25 |                                    |                        | RAHUL KUMAR SINGH    |
| 26 | Transportation Systems Engineering | Er. Sunil Sharma       | Akhilesh Nautiyal    |
| 27 |                                    |                        | Deepak Mittal        |
| 28 |                                    |                        | Rajesh Chauhan       |
| 29 |                                    |                        | Rajat Kaushal        |
| 30 |                                    | Dr. Shashi Kant Sharma | Aanand Kumar         |
| 31 |                                    |                        | Himanshu Kumar Yogi  |



|    |                             |                     |                   |
|----|-----------------------------|---------------------|-------------------|
| 32 |                             | Er. Sandeep Panchal | Rajesh Kharola    |
| 33 |                             |                     | ASHUTOSH GUPTA    |
| 34 |                             |                     | ASIM DEBBARMA     |
| 35 |                             |                     | LALIT SINGH RAWAT |
| 36 |                             | Radha Krishan Jha   | Lalit Thakur      |
| 37 |                             |                     | Rohan Bhatti      |
| 38 |                             |                     | Ramoo Ram         |
| 39 | Water Resources Engineering | Dr.V.K Sarda        | Aashish Sharma    |
| 40 |                             |                     | Deepak Chhabra    |
| 41 |                             |                     | Aman Dhiman       |
| 42 |                             |                     | Rahul Shakya      |
| 43 |                             |                     | Saurabh Raj       |
| 44 |                             | Dr.V.S.Dogra        | Navsal Kumar      |
| 45 |                             |                     | Paras Gupta       |
| 46 |                             |                     | Shankar Ghosh     |
| 47 |                             |                     | Vishal Chaudhary  |
| 48 |                             | Er. Vikas           | Pradeep Kumar     |
| 49 |                             |                     | Pushpendra Kumar  |

### 8. Ph. D. submitted:03

| Sr. No. | Name of student             | Topic  |   |
|---------|-----------------------------|--|---|
| 1.      | Sh. Raj Narain Prasad Singh | Comparative Study of Seismic Methods for Bridge Pier | Dr.H.K.Vinayak                          |
| 2.      | Sh. Sunil Sharma            | Application of GIS in Highway construction planning  | Dr.Raman Parti<br>Dr.Vijay Kumar Bansal |
| 3.      | Sh. Satish Kumar            | Application of GIS in Construction safety            | Dr.Vijay Kumar Bansal                   |

**10. Ph. D. Research Supervision: 07**

|    |                         |  |                   |
|----|-------------------------|--|-------------------|
| 1. | Ms. Babita Bhardwaj     | Geo Polymer Concrete   | Dr. Pardeep Kumar |
| 2. | Mr. Jagbir Katyal Singh | Wind effects on tall buildings with change in plan area with and without interference through CFD simulation | Dr. A.K.Roy       |
| 3. | Mr. Abhishek            | Behaviour of pull out anchors in stabilized reinforced soil  | Dr. R.K.Sharma    |
| 4. | Mr. Arunava Poddar      | Modelling eco-hydrlogic dynamics in root zone under increased ground water table                             | Dr. V.S.Dogra     |
| 5. | Mr. Anjul Tomar         | Use of GIS in Road Construction  | Dr. V.K.Bansal    |
| 6. | Mr. Kamal Preet Singh   | Landslide  | Dr. V.K.Sarda     |
| 7. | Mr. T. Gnananandarao    | Performance of multi Edges Footing with Structural Skirt Restinf on Sand                                     | Dr. R. K.Dutta    |

**7 Detail of R&D Projects (completed and in-progress):**

| Sr. No. | Title of Project  | Funding Agency &<br>Amount Sanctioned  | Allotment Year & Time | Present Status of the Project/PI | Name of PI or Co-PI                    |
|---------|---|--|-----------------------|----------------------------------|--|
| 1.      | Concurrent Evaluation Study for Minor Irrigation Schemes being executed in Himachal Pradesh under Accelerated Irrigation Benefits Programme | Himachal Pradesh Irrigation Public Health Department<br><br>Rs. 4.00 Lakh  | 2015-2016             | Completed                        | Dr. V.S.Dogra<br><br>Dr. Pardeep Kumar |
| 3.      | Development of Geopolymer concrete with Foundary Sand   | <b>TEQIP-II</b><br>Rs. 0.66 Lakhs  | 2016<br>(3 months)    | Completed                        | Dr. Pardeep Kumar                      |
| 4.      | Uplift Capacity of Granular Pile Anchors in Reinforced Stabilized Expansive Soil  | <b>TEQIP-II</b><br>Rs. 0.4 Lakh  | 2016<br>(6 Months)    | In-progress                      | Dr. R. K. Sharma                       |
| 5.      | Sustaining Himalayan Water Resources in a Changing Climate (SusHi-Wat)  | Newton Bhabha Fund Ministry of Earth Sciences, GOI - Natural Environment Research Council-UK<br><br>(International Collaborative Project)<br><br>(Rs. 56.8 Lacs) | 2016                  | In process                       | Dr. V.S.Dogra                          |

**8 Equipments/furniture purchased:**

| Sr. No. | Name of Equipment/<br>Furniture | Name of Manufacturer  | Cost in Rs |
|---------|---------------------------------|---|------------|
| 1.      | Bloom Centre Table              | Godrej & Boyce Mfg. co.<br>Ltd Through M/s jai Shri<br>Ram Furniture Hamirpur | 14927/-    |
| 2.      | Midas 03 Seater                 |   | 64785/-    |
| 3.      | Midas 02 Seater                 |   | 48754/-    |

**9. DETAIL OF THE LABORATORIES:**

| Sr.No. | Name of the Laboratory            |
|--------|-----------------------------------|
| 1      | Geotechnical Laboratory           |
| 2      | Strucuture Laboratory             |
| 3      | Irrigation & Hydraulics Laboratry |
| 4      | Flume Laboratory                  |
| 5      | Concerete Laboratory              |
| 6      | Foundation Engineering Laboratory |
| 7      | Surveying Laboratory              |
| 8      | Transportation Laboratory         |
| 9      | Geology Laboratory                |
| 10     | Remote Sensing & GIS Laboratory   |
| 11     | Computation Laboratory            |
| 12     | Environmental Engineering Lab.    |

## DEPARTMENT OF ELECTRICAL ENGINEERING



### 1. Academic Staff:

**Head:** Dr. Ashwani Kumar Chandel  
Ph.D

#### FACULTIES:

| Professor                          | Associate Professor               | Assistant Professor           |
|------------------------------------|-----------------------------------|-------------------------------|
| Dr. Y. R. Sood<br>Ph. D            | Dr. Zakir Hussain<br>Ph. D        | Er. Himesh Handa<br>M. Tech.  |
| Dr. Sushil Chauhan<br>Ph. D        | Dr. Ravinder Nath<br>Ph. D        | Dr. Amit Kaul<br>Ph.D         |
| Dr. Ram Naresh Sharma<br>Ph. D     | Dr. (Mrs.) Veena Sharma<br>Ph. D  | Er. Rajesh Kumar<br>M. Tech.  |
| Dr. Ashwani Kumar Chandel<br>Ph. D | Dr. R. K. Jarial<br>Ph. D         | Er. Bharti Koul<br>M. Tech.   |
|                                    | Dr. Bharat Bhushan Sharma<br>Ph.D | Dr. Manisha Sharma<br>Ph.D    |
|                                    | Dr. O. P. Rahi<br>Ph. D           | Dr. Chandrasekaran S.<br>Ph.D |



**2. DISTINCTION ACHIEVED: 5 years NBA Accreditation of UG Programme****(a) By Student: 95 percent placement of the 2015-16 batch****3. SEMINAR SYMPOSIA, SUMMER SCHOOL, WINTER SCHOOL, SHORT TERM COURSE:****a) Conducted in the Department:**

| <b>Sponsoring Agency</b>            | <b>Name of the Coordinator</b> | <b>Title of the Seminar/Symposia etc.</b>  | <b>Duration</b>     | <b>Venue</b>        |
|-------------------------------------|--------------------------------|--|---------------------|---------------------|
| NIT Hamirpur                        | Dr. Y. R. Sood                 | Observance of Vigilance Awareness Week   | October 26-31, 2015 | NIT Hamirpur (H.P.) |
| TEQIP-II                            | Dr. B B Sharma&Dr. V. S. Dogra | One week STTP for faculty on "Developing Competence of Faculty for Preparing Entrepreneurs among Students"     | July 11-15, 2015    | NIT Hamirpur        |
| TIFAC-CORE<br>NIT Hamirpur          | Dr. B B Sharma                 | Short term course on "Condition Monitoring of Electrical Apparatus (CMEA-2015)" for HPSEB employees            | Dec. 29-31, 2015    | EED, NIT Hamirpur   |
| HPSEBL<br>Shimla with<br>TIFAC CORE | Dr.R.K. Jarial                 | 03 day STC for JE/SSA Staff of HPSEBL Shimla on Condition Monitoring of Electrical Apparatus Sept. 23-25, 2015 | 3 Days              | EED, NIT Hamirpur   |
| HPSEBL<br>Shimla with<br>TIFAC CORE | Dr.R.K. Jarial                 | 03 day STC for JE/SSA Staff of HPSEBL Shimla on Condition Monitoring of Electrical Apparatus Oct. 28-30, 2015. | 3 Days              | EED, NIT Hamirpur   |
| HPSEBL<br>Shimla with<br>TIFAC CORE | Dr.R.K. Jarial                 | 03 day STC for JE/SSA Staff of HPSEBL Shimla on Condition Monitoring of Electrical Apparatus Nov. 25-27, 2015  | 3 Days              | EED, NIT Hamirpur   |

|                               |                |   |        |                   |
|-------------------------------|----------------|---|--------|-------------------|
| HPSEBL Shimla with TIFAC CORE | Dr.R.K. Jarial | 03 day STC for JE/SSA Staff of HPSEBL Shimla on Condition Monitoring of Electrical Apparatus Dec. 29-31, 2015 | 3 Days | EED, NIT Hamirpur |
|-------------------------------|----------------|---|--------|-------------------|

**b) Participated by Faculty members:**

| Name of the Staff | Course/Seminar   | Organization  | Duration                                     | Venue   |
|-------------------|--|---|--|---|
| Dr. B B Sharma    | ISTE North section annual convention   | Sponsored by ISTE                                   | Nov. 5 <sup>th</sup> -6 <sup>th</sup> , 2015 | Rayat Institute of Engineering and Information Technology, Railmajra, Near Ropar, Distt. Shahid Bhagat Singh Nagar (PB) |
| Dr. B B Sharma    | 2nd International Conference on Recent Advances in Engineering & Computational Sciences (RAECS-2015) | Sponsored by IEEE Delhi and IEEE Chandigarh section | Dec. 21-22 2015                              | U I E T Chandigarh  |

**4. RESEARCH:**

**(a) Research Scheme**

| Title of the Scheme     | Sponsored by   | Assistance Received (Rs.) in lakh.   | Investigator or                      | Brief Report   |
|-------------------------|--|--|--------------------------------------|--|
| TIFAC CORE NIT Hamirpur | DST, Delhi through TIFAC Delhi & HP SEB Ltd., Shimla | Rs 211.00 from TIFAC Delhi & Rs 100 lacs from HP SEBL., Shimla (Amount received till 31-03-2016) | Co-ordinator TIFAC CORE NIT Hamirpur | Already some data of around 29 power transformers have been collected and two meetings for signing a MOU in this regard with HP state Electricity Board Ltd Authorities through Chief Engineer (Electrical |

|  |  |  |  |  |
|--|--|--|--|--|
|  |  | The total Investment planned is Rs 530 lacs for fully functioning of this centre in the institute (as per MOU signed on 10-2-2004 with TIFAC Delhi.) |  | Systems) HP SEBLtd., Hamirpur has been done. |
|--|--|--|--|--|

**(b) Research Publication: –**

**Research Papers Published in National and International Journals:**

- (1) **Yog Raj Sood**, RajnishShrivastava, AnchalWadhwa, “Health Assessment of Power Transformer Using Fuzzy Logic”, World Academy of Science, Engineering and Technology (WASET) International Journal of Energy and Power Engineering Vol:2, No:3, 2015.
- (2) Rahul Srivastava, PritiPundir, **Y. R. Sood**, RajnishShrivastava, “Statistical Tools for SFRA Diagnosis in Power Transformers”, World Academy of Science, Engineering and Technology (WASET) International Journal of Energy and Power Engineering Vol:2, No:3, 2015.
- (3) RajnishShrivastava, **Y. R. Sood**, PritiPundir, Rahul Srivastava, “Ultraviolet Visible Spectroscopy Analysis on Transformer Oil by Correlating It with Various Oil Parameters”, World Academy of Science, Engineering and Technology (WASET) International Journal of Energy and Power Engineering Vol:2, No:3, 2015.
- (4) **Yog Raj Sood**, RajnishShrivastava, Naveen Kumar Sharma, “Electrical Engineering Education-Recent Trends”, published in published in **International Journal** of Information Technology & Computer Science (IJITCS ), Volume No : 19 , Issue No : 2, ISSN : 2091-1610, pp.62-66, 2015.
- (5) **Yog Raj Sood**, RajnishShrivastava, Naveen Kumar Sharma, “Importance if Technical Education System in Present Scenario of Information Technology” published in **International Journal** of Information Technology & Computer Science (IJITCS), Volume No: 19, Issue No: 2, ISSN: 2091-1610, pp.1-6, 2015.
- (6) U. Mohan Rao, **Yog Raj Sood**, Dr. R. K. Jarial, P. Sai Vijay, “Outcome Based Education Model for Technical Education Institutes” published in **International Journal** of Information Technology & Computer Science (IJITCS), Volume No : 19 , Issue No : 2, ISSN : 2091-1610, pp.67-72, 2015.
- (7) Naveen Kumar Sharma, **Yog Raj Sood**, RajnishShrivastava, “DGA Analysis of Transformer Oil with Experimental Investigation: An Effective Tool of Condition Monitoring For Power Transformer” published in STM **International Journal** of Power Electronics & Power

- Systems (JoPEPS), Vol. 05, No.2(2015), pp.9-16, EISSN: 2249–863X, ISSN: 2321–4244, SJIF: 3.782
- (8) U.Mohan Rao, **Y.R.Sood**, R.K.Jarial, “Subtractive clustering Fuzzy Expert System for Engineering Applications” *Procedia Computer Science*, Elsevier 48 ( 2015 ), pp. 77 – 83, ISSN 1877-0509.
  - (9) AnujBanshwar, Naveen Kumar Sharma, **Yog Raj Sood**, RajnishShrivastava, “Integration of Solar Energy in Indian Electricity Market and Future Perspectives”, published in **International Journal of Exploration in Engineering and Technology**, August 2015, ISSN: 2394-7918.
  - (10) Naveen Kumar Sharma, **Yog Raj Sood**, RajnishShrivastava, “Experimental Investigation of DGA Analysis of Transformer Oil: A Effective Tool of Condition Monitoring for Power Transformer”, published in **International Journal of Exploration in Engineering and Technology**, August 2015, ISSN: 2394-7918.
  - (11) U. Mohan Rao, **Y.R.Sood**, R.K.Jarial, “Oxidation Stability Enhancement of a blend of Mineral oil and Synthetic Ester”, **IEEE Electrical Insulation Magazine.**, Vol.32, Issue 2, March-April 2016, ISSN 0883-7554, Impact Factor 1.643, pp. 43-47, DOI: 10.1109/MEI.2016.7414230.
  - (12) U. Mohan Rao, **Yog Raj Sood**, Raj Kumar Jarial, “Performance Analysis of Alternate Liquid Dielectrics for Power Transformers”, accepted for publication in **IEEE Transactions on Dielectrics and Electrical Insulation**, Paper number-5642, 2016, Impact Factor-1.278.
  - (13) P. Dahiya, V. Sharma, and R. Naresh, “Optimal generation control of interconnected power system including DFIG-based wind turbine,” *IETE Journal of Research*, Vol. 61, No. 3, pp. 285-299, 2015.
  - (14) N. Gouthamkumar, V. Sharma, R. Naresh, and P. K. Singhal, (2015). “Comparative performance analysis of optimal meta-heuristic approaches for hydrothermal coordination” *International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering*, Vol. 4, No. 4, pp. 2675-2683.
  - (15) N. Gouthamkumar, V. Sharma, R. Naresh, and P. K. Singhal, (2015) “Sinusoidal migration of biogeography based optimization for short term hydrothermal scheduling” *Scholars Journal of Engineering and Technology*, Vol. 3, No. 3, pp. 2675-2683.
  - (16) P. K. Singhal, R. Naresh, V. Sharma, and N. Gouthamkumar (2015). “Generator scheduling under competitive environment using genetic algorithm” *International Journal of Engineering, Science and Technology*. Vol. 7, No. 3, pp. 24-32.
  - (17) P.K. Singhal, R. Naresh, and V. Sharma, “Binary Fish Swarm Algorithm for Profit-Based Unit Commitment Problem in Competitive Electricity Market with Ramp Rate Constraints,” *IET Gener. Transm. Distrib.*, Vol. 9, No. 13, pp. 1697-1707, 2015.
  - (18) P. Dahiya, V. Sharma, and R. Naresh, “Solution approach to automatic generation control problem using hybridized gravitational search algorithm optimized PID and FOPID controllers,” *Advances in Electrical and Computer Engineering*, Vol. 15, No. 2, pp. 23-34, 2015.

- (19) N. Gouthamkumar, V. Sharma, and R. Naresh. "An oppositional learning based gravitational search algorithm for short term hydrothermal scheduling", Asian Journal of Current Engineering and Maths, Vol. 4, No. 3, pp. 45-54, 2015.
- (20) N. Gouthamkumar, V. Sharma, and R. Naresh, "Disruption based gravitational search algorithm for short term hydro thermal scheduling," Expert Systems with Applications, Vol. 42, pp. 7000-7011, 2015.
- (21) N. Gouthamkumar, V. Sharma, and R. Naresh, "Hybridized Gravitational Search Algorithm for Short-Term Hydrothermal Scheduling," IETE Journal of Research, DOI: 10.1080/03772063.2015.1083904.
- (22) A.K. Mehtha, R. Naresh and Sushil Chauhan, "Development of a Novel Dual Temperature Model for Insulation Aging in Oil Immersed Transformers", IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 22, Issue 5, pp. 2723-2736, October 2015.
- (23) N. Gouthamkumar, V. Sharma, and R. Naresh. (2016). "Application of nondominated sorting gravitational search algorithm with disruption operator for stochastic multiobjective short term hydrothermal scheduling" IET Generation Transmission and Distribution, Vol. 10, No. 4, pp. 862-872.
- (24) B. Vedik and A. K. Chandel, "Hybrid power system state estimation using Taguchi differential evolution algorithm," IET Science, Measurement, and Technology (SCI) IET Publication, vol. 9, no. 4, pp. 449-466, Jul. 2015.
- (25) B. Vedik and A. K. Chandel, "A robust LWS state estimation including anomaly detection and identification in power systems," Neurocomputing (SCI) Elsevier Publication, vol. 166, pp. 122-133, Oct. 2015.
- (26) B. Vedik and A. K. Chandel, "Simultaneous placement of PMUs and communication infrastructure in WAMS using NSGA-II," IETE Technical Review, (SCI) Taylor and Francis Publication (In Press, DOI: 10.1080/02564602.2015.1134288).
- (27) B. Vedik, A. K. Chandel, and R. Chandel, "Power system dynamic state estimation using prediction based re-initialisation technique," Energy, (SCI) Elsevier Publication, vol. 107, pp. 29-47, Jul. 2016.
- (28) U. Mohan Rao, Y. R. Sood, R. K. Jarial, "Performance analysis Performance Analysis of Alternate Liquid Dielectrics for Power Transformers," IEEE Transactions on Dielectrics and Electrical Insulation, (ID- 5642) Accepted for publication, In Press, (SCI Indexed Journal).
- (29) U. Mohan Rao, Y. R. Sood, R. K. Jarial, "Oxidation Stability Enhancement of a blend of Mineral oil and Synthetic Ester," IEEE Electrical Insulation Magazine, Vol. 32, No.2, pp. 43-47, 2016. (SCI Indexed Journal) (Citations: 1).
- (30) U. Mohan Rao, Y. R. Sood, R. K. Jarial, P.S.Vijay, "Outcome Based Education Model for Technical Education Institutes," International Journal of Information Technology & Computer Science, Vol. 19, Issue 2, pp- 67-73, April 2015.
- (31) NatlaSudheer Reddy, R. K. Jarial, ChilakaRanga, "Study of accelerating thermal aging effects on Nomex-Mylar-Nomex and Dacron-Mylar-Dacron Insulating Paper" International Journal for Research in Applied Science and engineering Technology(IJRASET), Vol 4, Issue. 4, April-2016.



- (32) V. Sharma, V Agrawal, R Nath, B. B. Sharma, Unknown input nonlinear observer design for continuous and discrete time systems with input recovery scheme, Nonlinear Dynamics, Springer Publisher, Vol. 84, March 2016, pp. 1-14

**Papers Published in National and International Conferences:**

- (1) AnujBanshwar, Naveen Kumar Sharma, **Yog Raj Sood**, Rajnish Srivastava, "Determination of Optimal Capacity of Pumped Storage Plant by Efficient Management of Renewable Energy Sources," in proc. of 2015 **IEEE** Student Conference on Engineering and Systems (SCES-2015), 06-08 Nov 2015, MNNIT Allahabad (U.P.)
- (2) AnujBanshwar, Naveen Kumar Sharma, **Yog Raj Sood**, RajnishShrivastava, "Integration of Solar Energy in Indian Electricity Market and Future Perspectives", published in **International** Conference on Emerging and Futuristic Trends in Engineering and Technology organized by Maharaja Agrasen Institute of Technology in Association with NITTTR Chandigarh, Distt. Solan, Himachal Pradesh 08-09 May 2015.
- (3) Naveen Kumar Sharma, **Yog Raj Sood**, RajnishShrivastava, "Experimental Investigation of DGA Analysis of Transformer Oil: A Effective Tool of Condition Monitoring for Power Transformer", published in **International** Conference on Emerging and Futuristic Trends in Engineering and Technology organized by organized by Maharaja Agrasen Institute of Technology in Association with NITTTR Chandigarh, Distt. Solan, Himachal Pradesh 08-09 May 2015.
- (4) U. Mohan Rao, **Yog Raj Sood**, R. K. Jarial, "Review on Ester Based Dielectric Liquids for Transformer Insulation Technology", presented and published in the proceedings of **IEEE** Conference on Condition Assessment Techniques in Electrical Systems (CATCON 2015), CPRI Bangalore, December 2015, Paper ID 3.
- (5) U. Mohan Rao, **Yog Raj Sood**, Dr. R. K. Jarial, K. Subrahmanyam, "Preliminary Studies on Thermal Ageing of Alternate Dielectric Liquids for Transformers", published in the proceedings of Annual **IEEE** India Conference (INDICON 2015), December 2015, JMI New Delhi Paper ID 1570171169.
- (6) AnujBanshwar, Naveen Kr. Sharma, **Y. R. Sood**, RajnishShrivastava, "Optimal Approach for Efficient Utilization of Renewable Energy Sources in Power System", **IEEE** Students' Conference on Electrical, Electronics and Computer Sciences (SCEECS 2016), MANIT Bhopal, India, March 5-6, 2016, Print ISBN: 978-1-4673-7918-2.
- (7) B. Vedik and A. K. Chandel, "Power system state estimation using gravitational search algorithm," in Proc. 2015 IEEE International conference on computer and computational sciences, New Delhi, pp. 32-38.
- (8) B. Vedik and A. K. Chandel, "Power system state estimation using weighted least trimmed sum of absolute deviation," in Proc. 2015 IEEE International conference on Electronics, Energy, Environment, Communication, Computer, Control, New Delhi, pp. 1- 5.
- (9) C. H. Ranga and A. K. Chandel, "Multi-criterion approach for dissolved gas analysis of transformer oil," in Proc. 2015 IEEE UP Section conference on Electrical Computer and Electronics, Allahabad, pp. 1-6.

- (10) C. H. Ranga and A. K. Chandel, "Advanced tool based condition monitoring of induction machines by using LABVIEW - A Review," in Proc. 2015 IEEE UP Section conference on Electrical Computer and Electronics, Allahabad, pp. 1-6.
- (11) K. K. Bansal, C. H. Ranga and A. K. Chandel, "Ageing analysis of thermally stressed power transformer insulation using UV-visible spectroscopy," in Proc. 2016 Elsevier International conference on Recent Trends in Engineering and Material Sciences, Jaipur, pp. 1-5
- (12) P. K. Singhal, R. Naresh, V. Sharma, and Goutham K. N., "A new strategy-based artificial bee colony algorithm for unit commitment problem," in Proc. IEEE Int. Conf. on Recent Developments in Control, Automation and Power Engineering (RDCAPE-2015), Greater Noida, Mar. 2015, pp. 55-60.
- (13) Preeti, Veena Sharma, R. Naresh and Harish Pulluri, "Automatic generation control using disrupted gravitational search algorithm based proportional integral derivative control," Second IEEE International Conference on Recent Advances in Engineering and Computational Sciences (RAECS), Chandigarh, India, 21-22nd Dec. 2015, pp. 1-6.
- (14) Harish Pulluri, R. Naresh, Veena Sharma and Preeti "Automatic generation control using disrupted gravitational search algorithm based proportional integral derivative controller," Second IEEE International Conference on Recent Advances in Engineering and Computational Sciences (RAECS), Chandigarh, India, 21-22nd Dec. 2015, pp. 1-6.
- (15) K. Subrahmanyam, R. K. Jarial, U. Mohan Rao, "Degradation Assessment of Mineral Oil and Natural Ester for Power Transformer", International Conference on Engineering trends and Material Science, ICEMS-2016, March 2016, Jaipur, India.
- (16) NatlaSudheer Reddy, R. K. Jarial, ChilakaRanga, Kuldeep Kumar Bansal, "Life estimation of thermally stressed rotating machine insulation by using Arrhenius Model", International Conference on Engineering trends and Material Science, ICEMS-2016, March 2016, Jaipur, India.
- (17) Santanu Kumar Seth, R.K. Jarial, Pavan Kumar Kandregula, Gaurav Upadhyay, "The case study of experimental investigations on insulation health condition of 3-Ø bushing", International Conference on Engineering trends and Material Science, ICEMS-2016, March 2016, Jaipur, India.
- (18) U. Mohan Rao, Y. R. Sood, R. K. Jarial, K. Subrahmanyam, "Preliminary studies on thermal ageing of alternate Dielectric Liquids for Transformers," Annual IEEE India Conference, INDICON-2015, pp1-5, Dec-2015, New Delhi, India.
- (19) U. Mohan Rao, Y. R. Sood, R. K. Jarial, "Review on ester based dielectric liquids for transformer insulation technology", IEEE International Conference on Condition assessment techniques in Electrical systems, CATCON-2015, CPRI-Bangalore, pp 1-6, Dec-2015.
- (20) V. Sharma, V Agrawal, R Nath, B. B. Sharma, Nonlinear Unknown Input Sliding Mode Observer for Chaotic Synchronization and Message Recovery, ACT-2015 at Trivendrum (Kerala), Oct, 2015, pp.11-26.

- (21) P.Chauhan, B. B. Sharma, Observer based synchronization of chaotic systems using Generalized Hamiltonian Systems, Proceedings of ISTE Section Annual Conv., NIT Hamirpur, 2015,11-12
- (22) M. Shukla, B. B. Sharma, Hybrid projective synchronization of fractional order Volta's system via active control, 2nd International Conference on Recent Advances in Engineering & Computational Sciences (RAECS-2015), Dec. 21-22 2015, pp. 1-6

**Patent Filed**

“A New Method for Allocation of Embedded Revenue Requirement of Power Transmission in Deregulated Power System” by Dr. Y.R. Sood, Professor

Application Number : 201611009251

Date of filing of Application : 17/03/2016

**Doctoral Programme:**

(b) Ph. D. Degree awarded: **04**

(c) Master thesis completed: **39**

**DOCTORAL PROGRAMME:**

| Sr. No. | Title   | Guide                                  | Name of the Student     | Brief report |
|---------|---|--|-------------------------|--------------|
| 1.      | Investigations on Insulation Aging in Oil Immersed Transformers.                    | Dr.R.N.Sharma &<br>Dr.Sushil Chauhan   | Dr. Amit Kumar          | Completed    |
| 2.      | Hybrid Biometric approach for Human identification                                  | Dr.Sushil Chauhan &Dr.AjatShatru Arora | Dr. Amit Kaul           | Completed    |
| 3.      | DFIG Applications with Slip Power Recovery Drives for Wind Energy Conversion System | Dr. R.K.Jarial                         | Dr. Sanjiv Kumar Bhalla | Completed    |
| 4.      | Performance Analysis of Slip Power Recovery Drive                                   | Dr. R.K.Jarial                         | Dr.Sanjiba Kumar Bisoyi | Completed    |

|     |   |  |                   |                  |
|-----|---|--|-------------------|------------------|
| 5.  | Hybrid Gravitational Search Algorithm based solution methodology for short term Hydro thermal scheduling problems | Dr.Veena Sharma &Dr.R.N.Sharma               | Gautham Kumar     | Thesis Submitted |
| 6.  | Investigations Using Meta-heuristic based approaches to solve unit commitment problems                            | Dr.R.N.Sharma &Dr.Veena Sharma               | PrateekKr.Singhal | Thesis Submitted |
| 7.  | Wide Area Monitoring of Power Systems using Phasor Measurement Units  | Dr.AshwaniChandel                            | B.Vedik           | Thesis Submitted |
| 8.  | Non-Liner Control and Synchronization of Dynamical Systems  | Dr.BharatBhushan Sharma                      | Er. HimeshHanda   | In progress      |
| 9.  | Wireless Sensor Network Energy efficient mote transfer for voice applications                                     | Dr. R.K.Jarial                               | Sh.VivekDubey     | In progress      |
| 10. | Nonlinear Observer Design and Applications to Synchronization   | Dr.BharatBhushan Sharma & Dr. R. Nath Sharma | Sh.Vivek Sharma   | In progress      |
| 11. | Optimal Power Flow Using Metaheuristic Approaches   | Dr. R.N. Sharma                              | Harish Pulluri    | In progress      |
| 12. | Optimal Automatic Generation Control of Interconnected Power Systems  | Dr. Veena Sharma                             | Preeti            | In progress      |
| 13. | Performance Evaluation and Health assessment of Transformers  | Dr.AshwaniChandel                            | ChilakaRanga      | In progress      |
| 14. | Liveness assured hand based Biometrics  | Dr. RavinderNath Sharma                      | Gaurav Jaswal     | In progress      |

|     |  |                               |                       |             |
|-----|--|-------------------------------|-----------------------|-------------|
| 15. | Wind Power potential assessment and analysis using statistical tools                                   | Dr. O.P. Rahi                 | Sreerama Murthy Kella | In progress |
| 16. | Optimal Utilization of Renewable Energy Sources as Ancillary Services in Deregulated Power Sector      | Dr. Y.R.Sood                  | AnujBanshwar          | In progress |
| 17. | Control & Synchronization of Integer and Non-Integer Dynamical systems                                 | Dr.BharatBhushan Sharma       | Manoj Kumar Shukla    | In progress |
| 18. | Investigations on alternate liquid dielectrics for Transformers  | Dr. R.K.Jarial                | Mohan Rao Ungarala    | In progress |
| 19. | Multi Attribute Decision based Optimal Location of Renewable Energy source in Deregulated Power Sector | Dr. Y.R.Sood                  | Digambar Singh        | In progress |
| 20. | Performance Analysis of induction machine Drive using slip power recovery scheme                       | Dr. O.P. Rahi&Dr.Veena Sharma | Sita Ram              | In progress |
| 21. | Active Power from Wind Power Plants  | Dr. O.P. Rahi                 | PreetiSonkar          | In progress |
| 22. | Optimal Operation of Green Micro Grid in Deregulated electricity market                                | Dr. Yog Raj Sood              | Jasmine Kaur          | In progress |



**M.Tech. Thesis completed: 39 Students:**

| Sr.No | Title  | Guide             | Name of the student(s) | Brief Report |
|-------|--|-------------------|------------------------|--------------|
| 1.    | Design and control of mhp controller   | Dr.O.P.Rahi       | Shailendra Kumar Rai   | Completed    |
| 2.    | Power Loss Minimization in Distribution System using network re-configuration              | Dr.Sushil Chauhan | Soumitri Jena          | Completed    |
| 3.    | Development of Open Access Same Time Information System for Deregulated Power System       | Dr. Y.R. Sood     | SharadAgrahari         | Completed    |
| 4.    | Short term Hydrothermal Scheduling using Adaptive Particle Swarm                           | Dr.R.N.Sharma     | EtamarpuramSreenadh    | Completed    |
| 5.    | Short Term Load Forecasting using Parallel Neural-Fuzzy Processor                          | Dr.Sushil Chauhan | AnkitJangra            | Completed    |
| 6.    | Optimum power flow   | Dr.R.N.Sharma     | Banna Suresh           | Completed    |
| 7.    | Simulation and Control of Small Hydropower Plant.  | Dr.O.P.Rahi       | Avinash Kumar          | Completed    |
| 8.    | Modelling and Simulation of Solar and Wind Energy Sources.                                 | Sh. Rajesh Kumar  | Usman Yusuf            | Completed    |
| 9.    | Investigation of Phase Shifting Transformer Effect on Power System Fault Level             | Dr.Ashwani Kumar  | VivekRastogi           | Completed    |
| 10.   | Economic Load Using Artificial Intelligence Techniques                                     | Dr.O.P.Rahi       | Sunil Kumar Kushwah    | Completed    |
| 11.   | Condition Monitoring of Power Transformer  | Dr.O.P.Rahi       | Sunil Kumar            | Completed    |
| 12.   | Neuro Fuzzy Approach For Voltage Contingency Evaluation                                    | Dr.Sushil Chauhan | Abhisek Mishra         | Completed    |
| 13.   | Load Flow Analyses and Loss Minimization by Reconfiguration of Radial Distribution Network | Dr. Y.R. Sood     | BhuwanSatija           | Completed    |
| 14.   | Voltage Flicker Mitigation using DSTATCOM  | Dr.Ashwani Kumar  | RohitKashiv            | Completed    |
| 15.   | Spectrum Sensing Schemes in Cognitive Radio Network  | Sh.AmitKaul       | Dhanesh Kumar Agarwal  | Completed    |
| 16.   | Alzheimer's Disease Detection Using PCA and Neural Network                                 | Sh.AmitKaul       | Yashasvi Chauhan       | Completed    |
| 17.   | Face Recognition in Frequency domain   | Sh.AmitKaul       | Gaiga Matthew Ruangmei | Completed    |
| 18.   | System Identification and Control of Processes   | Dr. Veena Sharma  | Deepak Mishra          | Completed    |

|     |   |                                 |                     |           |
|-----|---|---------------------------------|---------------------|-----------|
| 19. | Dynamic Amplitude Control and Synchronization of Chaotic System                                     | Dr. B.B. Sharma                 | Vicky Garg          | Completed |
| 20. | Sum of Square Approach Based Uncertainty Analysis and Synchronization of Chaotic System.            | Dr. B.B. Sharma                 | Subhash Chand Yogi  | Completed |
| 21. | Optimal Character Recognition of Handwritten Devanagri Script                                       | Dr.RavinderNath Sharma          | Mohmmad Yusuf       | Completed |
| 22. | Palm Print Recognition using Subspace Method.   | Dr.RavinderNath Sharma          | Ravi Kumar Kanaujia | Completed |
| 23. | PAPR Reduction in OFDM and SC-FDMA systems  | Dr.RavinderNath Sharma          | Ranjan Tiwari       | Completed |
| 24. | Sliding Mode Controller Design For DC Motor with Nonlinearities.                                    | Dr.Veena Sharma                 | Vyoma Singh         | Completed |
| 25. | SFRA of Transformer   | Dr. Y.R. Sood                   | Rahul Srivastava    | Completed |
| 26. | Dissolved gas analysis  | Dr.R.N.Sharma& Dr. Veena Sharma | Amita Singh         | Completed |
| 27. | Modelling of Partial Discharge Activity in Solid Dielectric Material.                               | Dr.R.K.Jarial                   | MadanLalChowdary    | Completed |
| 28. | Condition Assessment of OIP Type Power Transformer Bushings by Latest Dielectric Response Technique | Dr.R.K.Jarial                   | Abhishek Singh      | Completed |
| 29. | Dissolved gas analysis  | Dr.R.N.Sharma& Dr. Veena Sharma | Ruchika Bansal      | Completed |
| 30. | Health Assessment of Power Transformer Using Fuzzy Logic  | Dr. Y.R. Sood                   | AnchalWadhwa        | Completed |
| 31. | Assessment of Oil paper insulation of Aged Power Transformer  | Dr.R.K.Jarial                   | JagnandanNegi       | Completed |
| 32. | Mathematical Modelling of Winding Dislocation of Transformer by Sweep Frequency Response Analyses   | Dr.R.K.Jarial                   | Alok Kumar          | Completed |
| 33. | Residual Life Assessment of Power Transformer   | Dr.R.K.Jarial                   | Shrikant Singh      | Completed |
| 34. | Fault Prediction and Classification in Transformer through SFRA                                     | Dr. ZakirHussain                | Ambuj Kumar         | Completed |
| 35. | Condition Monitoring of Oil Filled Transformer using High   | Dr .Ashwani Kumar               | SatyajeetAnand      | Completed |

|     |  |                  |                      |           |
|-----|--|------------------|----------------------|-----------|
|     | Performance Liquid Chromatography  |                  |                      |           |
| 36. | Condition Monitoring of Power Transformer with Modern Technique                              | Dr. Y.R. Sood    | PritiPundir          | Completed |
| 37. | Condition Monitoring of Power Transformer using Fuzzy Logic                                  | Dr.Ashwani Kumar | YogendraPratap Singh | Completed |
| 38. | Asset Management of Power Transformer based on Condition Monitoring and Standard Diagnostics | Sh. Rajesh Kumar | Saurabh Dixit        | Completed |
| 39. | Dielectric Diagnostic of Oil Paper Insulation of Power Transformer.                          | Dr. ZakirHussain | Sunil Kumar Singh    | Completed |

**(g) POPULAR LECTURES BY OUTSIDE EXPERTS:**

| Sr.No. | Date           | Speaker  | Topic   |
|--------|----------------|--|---|
| 1.     | May 13, 2015   | Dr. Radhakant Padhi, Associate Professor, Department of Aerospace Engineering, IIScBanglore (Karnataka)  | TEQIP-II sponsored Invited expert lecture on “Introduction to Dynamics and Control of Flights “                                 |
| 2.     | May 13, 2015   | Dr. Radhakant Padhi, Associate Professor, Department of Aerospace Engineering, IISc Bangalore(Karnataka) | TEQIP-II sponsored Invited expert lecture on “Collission Avoidance and Formation Flying Using Integrated Guidance and Control “ |
| 3.     | March 15, 2016 | Prof. Ramesh Gaonkar   | ARM Microcontrollers and Application of ARM Microcontrollers  |
| 4.     | March 31, 2016 | Er. Shailesh Purohit   | Study on 5400 insulation Improvement for RDSO and Power system Diagnostics & Protection   |

**5. CONSULTANCY SERVICES:**

| Sr.No. | Name of the Scheme | Sponsored Agency | Amount Earned  |
|--------|--------------------|------------------|----------------|
| 1      | TIFAC-CORE         | HPSEB Ltd.       | Rs. 4,95,711/- |

**6. EQUIPMENT ACQUIRED:**

| Sr.No. | Name of equipment   | Name of manufacturer(s)  | Cost (Rs.in Lakh) |
|--------|---|--|-------------------|
| 1      | Transmission Line Distance Protection Setup   | M/s Edutech India Pvt. Ltd., Crystal Lawn #20, Haddows Road, Chennai-600006 (India) through M/s Edutech India Pvt. Ltd., Paharpur Business Cente Nehru Place Greens, New Delhi-110019. | 43,24,086/-       |
| 2      | Sensor less vector control induction motor Closed loop controlled matrix converter DC motor Drive Reversible four quadrant flux vector IGBT based PWM inverter speed VSI PWM scheme with direct torque 1762 IF20F2 Micro logic 4 point Analog | M/s Vi Microsystems Pvt.Ltd. Plot No.75, Electronics Estate, Perungudi, Chennai-6000096  | 10,24,920/-       |
| 3      | Lap top, Color laserjet printer, laserjet printer B/W M.S office 01 user  | M/S Ellora Technologies, Hamirpur (HP)   | 1,51,700/-        |
| 4      | Scanner Flatbed   | M/S Ellora Technologies, Hamirpur (HP)   | 14,975/-          |
| 5      | MATLAB, SIMULINK  | M/S Design Tech. System Ltd. Pune  | 73,792/-          |

**7. TECHNICAL ASSOCIATION/SOCIETIES: Electrical Engg. Society.**

- a. **Dr. Y.R. Sood**, Senior Member IEEE, Member, International Association of Electricity Generation, Transmission and Distribution (Afro-Asian Region), Fellow of Institution of Engineers (India), Life Member, ISTE, Member, System Society of India, Member Global Society for Health and Educational Growth, Member Power Globe, Member IEEE Indian Council, Senior Member IACSIT
- b. **Dr. Sushil Chauhan**, Member of IEEE, life Member of ISTE, Member of Institution of Engineers (India),

- c. **Dr. R.N. Sharma**, Member IEEE:-92165028
- d. **Dr. Ashwani Kumar Chandel**, Member IEEE, Life Member of IEEE, Life Member of ISTE, Life Member of Metrology Society of India
- e. **Dr. Veena Sharma**, Member of IEEE, Member of ISTE, Member of Instrument Society of India.
- f. **Dr. B.B. Sharma**, Life Membership of ISTE (LM38011), Member IEEE, USA, Member IEEE Automatic Control Society (Membership No. 90499500), Member Robotic Society of India (RSI)
- g. **Dr. R.K. Jarial**, Member IEEE Dielectric Society, Member IEEE Power Electronics, Life Member ISTE, AM Institute of Engineers ( India)

**8. DETAIL OF THE LABORATORIES:**

| Sr.No. | Name of the Laboratory               |
|--------|--------------------------------------|
| 1      | Basic Electrical Engineering lab.    |
| 2      | Circuit Theory lab.                  |
| 3      | Power Electronics lab.               |
| 4      | Power System lab.                    |
| 5      | High Voltage lab.                    |
| 6      | Electrical Machine lab.              |
| 7      | Measurement & Instrumentation lab    |
| 8      | Control Engineering lab.             |
| 9      | Signal Processing & Bio Medical lab. |
| 10     | Internet Lab                         |
| 11     | Microprocessor lab.                  |
| 12     | Power System Simulation lab.         |

## DEPARTMENT OF MECHANICAL ENGINEERING



### 1. ACADEMIC STAFF

**HEAD** Dr. RajivKumar Sharma  
Ph. D

#### FACULTIES:

| Professor                                  | Associate Professor             | Assistant Professor             | Lecturer(On Contract)  |
|--|---------------------------------|---------------------------------|------------------------|
| Dr.Rakesh Sehgal<br>Ph. D ( On Deputation) | Dr. Rajesh Sharma<br>Ph. D      | Dr. Siddhartha Ph. D            | Sh. Mukund Dutt Sharma |
| Dr. Sunand Kumar<br>Ph. D                  | Dr. Somesh<br>Sharma Ph. D      | Dr. Varun Ph. D                 | Sh. Aman Hira          |
| Dr. Anoop Kumar<br>Ph. D                   | Dr. Sant Ram<br>Chauhan Ph.D    | Er. Debashish Das<br>M. Tech    | Sh. Gurpreet Singh     |
|  | Dr. Prashant<br>KumarPh. D      | Dr. Mohit Pant<br>Ph. D         |                        |
|  | Dr. Rajiv Kumar<br>Sharma Ph. D | Dr. Santosh B.<br>Bopche Ph. D. |                        |

### 2. DISTICTION ACHIEVED:

- (a) By Student: Stuentns participated in various Tehnical Festivals within Country and Qualified National level Exams Such as GATE etc..
- (b) By Faculty Member: Faculty visited various countries and organised STTP



and Conference

### 3. SEMINAR, SYMPOSIA, SUMMER SCHOOL, WINTER SCHOOL, SHORT TERM COURSE

(a) Conducted in the Department:

| Sponsoring Agency | Name of the Co-ordinator | Title of the Seminar/Symposia etc.             | Duration         | Venue         |
|-------------------|--------------------------|--|------------------|---------------|
| TEQIP-II          | Dr. Rajiv Kumar Sharma   | Advancement in quality improvement in industry | 10-14 July, 2015 | NIT, Hamirpur |

### 4. RESEARCH:

(a) Research Scheme:

| Title of the Scheme  | Sponsored by         | Assistance Received <input type="checkbox"/> (in lakh) | Investigator      | Brief Report |
|--|----------------------|--|-------------------|--------------|
| Researching High Technology System: Scope of Functional Optimization | DST (Govt. of India) | 12.50 Lakhs  | Dr. Somesh Sharma | --           |

(b) Research Publication:

i) PAPER PUBLISHED BY FACULTY:

| Sl. No. | Name of Faculty     | Name of Refereed Journal                     | National / International | Title of the Paper  | Year of Publication |
|---------|---------------------|--|--------------------------|---|---------------------|
| 1       | Prof. Rakesh Sehgal | Arabian Journal for Science and Engineering  | International            | Modelling of Machining Process While Turning Tool Steel with CBN Tool   | 2016                |
|         |                     | Journal of Tribology, ASME DC                | International            | Modeling and Optimization of Friction and Wear Characteristics of Ti3Al2.5V Alloy Under Dry Sliding Condition | 2016                |
|         |                     | Tribology Transactions, Taylor Francis       | International            | Tribological Behavior of Ti3Al2.5V Alloy Sliding against EN-31 Steel under Dry Condition                      | 2016                |
|         |                     | Indian Journal of Materials Science, Hindawi | National                 | Mechanical Characterization and Machinability   | 2015                |

|   |                        |   |               |   |      |
|---|------------------------|---|---------------|---|------|
|   |                        |   |               | Behavior of Annealed AISI D6 Cold Working Steel   |      |
|   |                        | Arabian Journal for Science and Engineering                                   | International | Effect of Tool Material Properties and Cutting Conditions on Machinability of AISI D6 Steel during Hard Turning | 2015 |
|   |                        | i-Manager's Journal on Material Science                                       | International | Machinability of Titanium ASTM B-348 Grade-5 Alloy during Dry Turning with CBN Tool                             | 2015 |
| 2 | Dr. Rajiv Kumar Sharma | International Journal of Business Excellence                                  | International | Qualitative And Quantitative Evaluation Of Barriers Hindering The Growth Of MSMEs"                              | 2015 |
|   |                        | International Journal of Strategic Business Alliances                         | International | Qualitative and quantitative approach to model offshore outsourcing barriers due to cultural differences        | 2015 |
|   |                        | International Journal of System Assurance Engineering and Management Springer | International | An ISM based framework for structural relationship among various manufacturing flexibility dimensions.          | 2016 |
|   |                        | International Journal of Production Management and Engineering                | International | Cell Formation Heuristic Procedure Considering Production Data.   | 2016 |
|   |                        | Journal of Systems Assurance Engineering and Management                       | International | Analyzing the effect of maintenance strategies on throughput of a typical Flexible Manufacturing Cell           | 2016 |

|   |              |   |               |   |      |
|---|--------------|---|---------------|---|------|
|   |              | Indian Journal of Materials Science, Hindawi                      | National      | Mechanical Characterization and Machinability Behavior of Annealed AISI D6 Cold Working Steel   | 2015 |
| 3 | Dr. P.K.Sood | I-manager's Journal on Mechanical Engineering                     | International | Taguchi Multiple Performance Characteristics Optimization In Machining Of AISI 4340 Steel Using Utility Function  | 2015 |
|   |              | Journal of the Institution of Engineers India Series C (Springer) | International | Modelling and Optimization of Tool Wear in Machining of EN24 Steel Using Taguchi Approach   | 2015 |
|   |              | Materials and Manufacturing Processes                             | International | Machining Parameters Optimization of Titanium Alloy Using Response Surface Methodology and Particle Swarm Optimization Under Minimum Quantity Lubrication Environment | 2015 |
|   |              | Indian Journal of Engineering & Materials Sciences                | National      | Optimization of Machining Parameters for Turning AISI 4340 Steel Using Taguchi Based Grey Relational Analysis   | 2015 |
|   |              | J. Inst. Eng. India Ser. C  | International | Optimizing Multi Characteristics in Machining of AISI 4340 Steel Using Taguchi's Approach and Utility Concept   | 2015 |
|   |              | J. Inst. Eng. India Ser. C  | International | Experimental Investigation of Machining AISI 1040 Medium Carbon Steel Under   | 2015 |

|   |                        |  |               |   |      |
|---|------------------------|--|---------------|---|------|
|   |                        |  |               | Cryogenic Machining: A Comparison with Dry Machining  |      |
| 4 | Dr. Prashant Dhiman    | International Journal of Thermal Sciences (Elsevier)             | International | Recyclic double pass packed bed solar air heaters   | 2015 |
|   |                        | International Journal of Sustainable Energy (Taylor and Francis) | International | Thermal and thermo-hydraulic performance investigation of double pass packed bed solar air heaters under external recycle | 2015 |
|   |                        | International Journal of Sustainable Energy (Taylor and Francis) | International | Thermal performance assessment of recyclic double-pass flat and v-corrugated plate solar air heaters                      | 2015 |
| 5 | Dr. Mohit Pant         | Journal of Tribology, ASME DC                                    | International | Modeling and Optimization of Friction and Wear Characteristics of Ti3Al2.5V Alloy Under Dry Sliding Condition             | 2016 |
|   |                        | Tribology Transactions, Taylor Francis                           | International | Tribological Behavior of Ti3Al2.5V Alloy Sliding against EN-31 Steel under Dry Condition                                  | 2016 |
|   |                        | i-Manager's Journal on Material Science                          | International | Machinability of Titanium ASTM B-348 Grade-5 Alloy during Dry Turning with CBN Tool                                       | 2015 |
| 6 | Er. Mukund Dutt Sharma | Arabian Journal for Science and Engineering                      | International | Modelling of Machining Process While Turning Tool Steel with CBN Tool   | 2016 |
|   |                        | Journal of Tribology, ASME DC                                    | International | Modeling and Optimization of Friction and Wear Characteristics of Ti3Al2.5V Alloy Under Dry Sliding                       | 2016 |

|  |  |   |               |  |      |
|--|--|---|---------------|--|------|
|  |  |   |               | Condition  |      |
|  |  | Tribology Transactions, Taylor Francis  | International | Tribological Behavior of Ti3Al2.5V Alloy Sliding against EN-31 Steel under Dry Condition | 2016 |
|  |  | i-Manager's Journal on Material Science | International | Machinability of Titanium ASTM B-348 Grade-5 Alloy during Dry Turning with CBN Tool      | 2015 |

**(c) Doctoral Programme: 25 Nos. ongoing (During Session July, 2015-July,2016)**

| Sr. No. | Name of the Student      | Name of Guide/ Co-Guide                     | Nature of Ph.D | Specialization/ Topic   | Status           |
|---------|--------------------------|---|----------------|---|------------------|
| 1.      | Sh. Devender Priyadarshi | Dr. Rajesh Sharma                           | Part-Time      | Investigation on Tensile and Wear properties of ceramic particle/fibre/hybrid Aluminium Matrix Composites | In-Progress      |
| 2.      | Sh. Prashant Chauhan     | Dr. Rajiv Kumar Sharma/<br>Dr. Sunand Kumar | Off-Campus     | System Synthesis for an Effective Supply Chain Coordination   | Thesis Submitted |
| 3.      | Sh. Manoj Kumar Nayak    | Dr. Rakesh Sehgal                           | Off-Campus     | Investing Machinability and ToolWear/Performance of CBN Tool Inserts in Hard Turning of D6 Steel          | Thesis Submitted |
| 4.      | Sh. Vedant Singh         | Dr. Somesh Sharma                           | Part-Time      | Identifying dimensions for the fuel optimization in aviation industry                                     | Thesis Submitted |
| 5.      | Sh. Pardeep Kumar        | Dr. S.R. Chauhan                            | Off-Campus     | Evaluation of machining parameters for hard turning   | Thesis Submitted |
| 6.      | Sh. Sonu Sharma          | Dr. Rajesh Sharma                           | Full-Time      | Analysis, Optimization and Design of Modified Savonius Rotor  | In-Progress      |

|     |                        |  |                     |  |                  |
|-----|------------------------|--|---------------------|--|------------------|
| 7.  | Sh. Vikas Acharya      | Dr. Somesh Sharma/<br>Dr. Sunand Kumar | Part-Time           | Assessing the impact of automation on Indian Steel Industries  | In-Progress      |
| 8.  | Sh. Sudhir Rana        | Dr. Somesh Sharma/ Dr. P.C. Rhyal      | Full-Time           | Impact assessment of International marketing in providing competence to the Himachal based SME goods | In-Progress      |
| 9.  | Mrs. Indu Bala         | Dr. Somesh Sharma/Dr. Sunand Kumar     | Part-Time           | Model Development on safety parameters for aviation industry   | In-Progress      |
| 10. | Sh. Ravinder Kumar     | Dr. S.R. Chauhan                       | Full-Time           | Development, Characterization and Machinability Behaviour of Metal Matrix Composite Materials        | Thesis Submitted |
| 11. | Sh. Mukund Dutt Sharma | Dr. Rakesh Sehgal                      | Full-Time/Part-Time | Tribological Studies and Machining Parameterization of Titanium Alloys                               | Thesis Submitted |
| 12. | Sh. Nitin Sharma       | Dr. Rajesh Sharma / Dr. Sunil          | Full Time           | Investigation of Thermal Effects in Rough Porous Bearings  | In-Progress      |
| 13. | Sh. Akant Kumar Singh  | Dr. Siddhartha                         | Full Time           | Performance evaluation of fiber augmented polymer based gears  | In-Progress      |
| 14. | Sh. Satyender Singh    | Dr. Prashant Dhiman                    | Full Time           | The thermo economic performance analysis of recyclic type double pass packed bed solar air heater    | In-Progress      |
| 15. | Sh. Jagdeep Singh      | Dr. Rajiv Kumar Sharma                 | Full Time           | Study of powder mixed EDM of Tungsten carbide alloy  | In-Progress      |
| 16. | Sh. Vishal Jagota      | Dr. Rajesh Sharma                      | Full Time           | Tribology  | In-Progress      |
| 17. | Sh. Sahil Garg         | Dr. Mohit Pant                         | Full Time           | Computational Fracture Mechanics   | In-Progress      |
| 18. | Sh. Munish Gupta       | Dr. P.K. Sood                          | Full Time           | Machining  | In-Progress      |
| 19. | Sh. Rajneesh           | Dr. Anoop                              | Full Time           | Heat Transfer  | In-Progress      |



|     |                       |                            |           |   |             |
|-----|-----------------------|----------------------------|-----------|---|-------------|
|     | Sharma                | Kumar                      |           |   |             |
| 20. | Sh. Jagroop Singh     | Dr. Somesh Sharma          | Full Time | Industrial Engineering  | In-Progress |
| 21. | Sh. Manish Kaushal    | Dr. Prashant Dhiman        | Full Time | Heat Transfer   | In-Progress |
| 22. | Sh. Paramveer Singh   | Dr. S.R. Chauhan/Dr. Varun | Full Time | Tribological Characteristics of IC engines using unconventional fuels | In-Progress |
| 23. | Sh. Surender Kumar    | Dr. P.K. Sood              | Full Time | Composite Materials   | In-Progress |
| 24. | Sh. Anant Krishan Pun | Dr. Siddhartha             | Part Time | Wear, Materials and Design  | In-Progress |
| 25. | Sh. Manjeet Kharub    | Dr. Rajiv Kumar Sharma     | Full Time | Quality Engineering   | In-Progress |

**(d) Ph. D. Degree awarded: 7 Nos. (During Session July, 2015-July, 2016)**

| S. No. | Title of Thesis   | University/ Institute & Year of Ph. D. Award | Name of the Scholar | Name of supervisors                             |
|--------|---|--|---------------------|---|
| 1.     | Tribological Characteristics of IC engines using unconventional fuels   | NIT Hamirpur, 2015                           | Sh. Neeraj Kumar    | Dr. Varun<br>Dr. S.R. Chauhan                   |
| 2.     | Analysis Design and optimization of SCM in Indian MSMEs   | NIT Hamirpur, 2015                           | Smt. Pratima Mishra | Dr. Rajiv Kumar Sharma                          |
| 3.     | Needle punched Nonwoven Reinforced Composites for Tribological Applications.                                  | NIT Hamirpur, 2015                           | Sh. Sachin Tejyan   | Dr. Amar Patnaik<br>Dr. Amit Rawal              |
| 4.     | Thermal Studies on the influence of surface texture and fluid rheology on the performance of Journal bearings | NIT Hamirpur, 2016                           | Sh. Saurbh Kango    | Dr. Rajesh Sharma<br>Dr. R.K. Pandey, IIT Delhi |

|    |  |                    |                      |                                    |
|----|--|--------------------|----------------------|------------------------------------|
| 5. | Mechanical and Tribological Characterization of Particulate Reinforced Aluminium Matrix Composites | NIT Hamirpur, 2016 | Sh. Kiran Kumar Ekka | Dr.S.R.Chauhan<br>Dr.Varun         |
| 6. | Applications of Rapid Prototyping in Medical Field   | NIT Hamirpur, 2016 | Sh. Shushant Negi    | Dr. Rajesh Sharma                  |
| 7. | Mechanical and Wear Characterization of Nano Polymer Composite                                     | NIT Hamirpur, 2016 | Sh. Kali Das         | Dr. S.R.Chauhan<br>Dr. Bharti Gaur |

(e) Master thesis completed: 26 Nos. (M.Tech in Thermal & CAD CAM 2015-2016)

#### 5. DETAIL OF THE LABORATORIES:

| Sr. No. | Name of Laboratory              |
|---------|---------------------------------|
| 1       | Theory of Machine/vibration Lab |
| 2       | Ref. & Air Conditioning Lab     |
| 3       | Production Section              |
| 4       | Dynamic & Machining Lab         |
| 5       | C.A.D. Lab                      |
| 6       | CAM Lab                         |
| 7       | Metallurgy & Metallographic Lab |
| 8       | Tribology Lab                   |
| 9       | I. C. Engine                    |
| 10      | Turbo Machine & Thermal         |
| 11      | Heat Transfer Lab               |
| 12      | Mechanics of Solid              |
| 13      | Measurement & Control           |
| 14      | C.A.D. (New)                    |
| 15      | Advanced Heat Transfer          |
| 16      | Fluid Mechanics Lab             |
| 17      | Heat Engine Lab                 |
| 18      | Project Lab                     |

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



### 1. ACADEMIC STAFF

**HEAD:** Er. Desh Raj Rana

#### FACULTIES

| Professor                               | Associate Professor        | Assistant Professor                                    |
|---|----------------------------|--|
| Dr. Vinod Kapoor<br>Ph. D               | Sh. D.R. Rana<br>M.E.      | Sh. Krishan Kumar<br>M. Tech. (Pursuing Ph. D)         |
| Dr. (Mrs.)<br>Rajeevan Chandel<br>Ph. D | Dr. Surender Soni<br>Ph. D | Sh. Manoranjan Rai Bharti<br>M. Tech. (Pursuing Ph. D) |
|   | Dr. Ashok Kumar<br>Ph. D   | Sh. Gagnesh Kumar M. Tech.                             |
|   | Dr. Gargi Khanna<br>Ph. D  | Sh. Vinod Kumar<br>M. Tech. (Pursuing Ph. D Part Time) |
|   | Dr. Ashwani Rana<br>Ph. D  | Sh. Rakesh Sharma<br>M. Tech (Pursuing Ph. D.          |
|   |                            | Dr. Philemon Daniel<br>Ph. D                           |

**Publications in National/Int. Journals:**

1. Y.Agrawal, M.Girish and R. Cahndel , “ a comprehensive model for high-speed current – mode signaling in next generation MWCNT bundle interconnect using FDTD technique,” IEEE Transactions on Nanotechnology, vol 15, no.4, pp.590-598, 2016
2. Y.Agrawal, M.Girish and R. Cahndel, “Crosstalk analysis of current –mode signaling-coupled RLC interconnects using FDTD Technique, “ IETE Technical Review , Taylor & Francis, Vol. 33, no.2, PP-148-159, 2016.
3. Y.Agrawal, M.Girish and R. Cahndel, “ Carbon nanotube interconnects-A promising solution or VLSI circuits, “ IETE Journal Education, Taylor & Francis, Vol. 57,no. 2, pp.46-64.
4. Y.Agrawal, M.Girish and R. Cahndel, “ Time-domain analytical modeling of current-mode signaling bundled single-wall carbon nanotube interconnects, “ Books chapter, Springer:Advances Intelligent systems and computing, KCG college of Technology , Chennai.
5. Y.Agrawal, R. Cahndel and M.Girish,” Performance Analysis of Multilayer Grapheme nano-ribbon in current mode signaling interconnect system,” in Proc. IEEE International Symposium Nano electronics Information Systems (INIS), pp. 297-302, Indore, MP, 21-23 Dec.2015.
6. M.Girish R. Cahndel and Y.Agrawal, “Timing and stability analysis of carbon nanotube interconnects, “in Proc IEEE International symposium Nanoelectronics Information Systems (INIS), pp. 308-313, Indore, MP, 21-23 Decembers, 2015.
7. Vicky and Ashok Kumar, “Mobile sink routing and relocation strategies in Wireless Sensor Networks- AReview,”International Journal of Applied Engineering Research (online Journal), vol.10 No. 22, pp.43029-43044, Nov. 2015.
8. Gaurav, Vicky, Manjeet and Ashok Kumar, “Localization using varying Anchor Range in Randomly Distributed Wireless Sensor Network,” NDIACom – 2016, International Conference on Computing for Sustainable Global Development, sponsored by IEEE Delhi Section, at BharatiVidyapeeth, New Delhi (INDIA), 16th - 18th March, 2016 (Conference Proceedings having ISSN 0973 - 7529 and ISBN 978-93-80544-19-9 serials).
9. Vicky, Gaurav, Manjeet and Ashok Kumar “Improving Network Lifetime & Reporting Delay in Wireless Sensor Networks Using Multiple Mobile Sinks,” NDIACom – 2016, International Conference on Computing for Sustainable Global Development, sponsored by IEEE Delhi Section, at BharatiVidyapeeth, New Delhi (INDIA), 16th - 18th March, 2016 (Conference Proceedings having ISSN 0973 - 7529 and ISBN 978-93-80544-19-9 serials).
10. MohdFeerozShekh and Ashok Kumar, “Improved Energy-Efficient Chain based Routing Protocol for Edge-based Wireless Sensor Networks,” IEEE International Conference on Communication and Signal Processing ICCSP Melmaruvathur Tamil Nadu, 6-8 April 2016.
11. Bhaumik Patel and Ashok Kumar, “An Energy Efficient Multi-End Chain based Protocol in Wireless Sensor Networks,” International Conference on Recent Trends in Engineering and Material Sciences ICEMS Jaipur National University, Jaipur, 17-19 March 2016.

12. Gaurav Kumar and **GargiKhanna**, "Propagation Delay Comparison of Single and Multi-layer Graphene Nano Ribbon Interconnects using Equivalent Single Conductor (ESC) Model", IEEE International Conference on Computation of Power, Energy, Information and Communication (ICCPEIC), 978-1-4673-6524-6/15, Melmaruvathur, 22-23 April, 2015.
13. Y. Mary AshaLatha and **GargiKhanna**, "A Diaphragm Capacitive Sensor with Improved Sensitivity for Intraocular Pressure Measurement ", International Conference on Science, Management, Engineering and Technology ( ICSMET 2015) Dubai March 18-19, 2015.
14. ApoorvaDwivedi and **GargiKhanna**, "Performance Evaluation of MEMSBasedCapacitive Pressure Sensor for Hearing AidApplication," International Journal of Advanced Engineering Research and Science (IJAERS)ISSN: 2349-6495, Vol-2, Issue-4,pp. 59-63, April 2015.
15. Gaurav Kumar and **GargiKhanna**, "Propagation Delay Comparison of Single and Multi-layer Graphene Nano Ribbon Interconnects using Equivalent Single Conductor (ESC) Model," IEEE International Conference on Computation of Power, Energy, Information and Communication (ICCPEIC), 978-1-4673-6524-6/15, Melmaruvathur, 22-23 April, 2015.
16. Y. Mary AshaLatha and**GargiKhanna**, "Design and Simulative analysis of a Batteryless Teflon Coated capacitive Pressure Sensor for Glaucoma Diagnosis ", 19th International Symposium on VLSI Design and Test VDAT 2015, Institute of Technology, Nirma University, Ahmadabad, June 26-29, 2015.
17. PrateekAsthana and **GargiKhanna**, "A Comparative study of energy harvesting circuit for Piezo electric energy harvesting," IEEE International conference in Computing for Sustainable Global DevelopmentINDIACom-2016 New Delhi, 16- 18th March 2016.
18. Khalilullah Ibrahim and **GargiKhanna**, "Optimum Design of capacitive pressure sensor," IEEE International conference in Computing for Sustainable Global DevelopmentINDIACom-2016New Delhi, 16- 18th March 2016.
19. TarunChaudhary and **GargiKhanna**, "Analytical modeling of drain current and short channel effects of Junctionless double gate VeSFET," Journal of Nanoelectronics& Optoelectronics, ASP, 11JNO05-23, Online 2016. [SCI].
20. KomalKumari and **GargiKhanna**, "Design and Simulation of vibration based MEMS Piezoelectric Energy Harvester," IOSR Journal of VLSI and Signal Processing, Vol. 6, pp. 29-36, 2016.
21. Krishan Kumar, ArunPraksh, Rajeev Tripathi, "Spectrum handoff in cognitive radio networks: A classification and comprehensive survey," Elsevier Journal of Networks and Computer Applications, vol. 61, pp. 161-188, Feb 2016.
22. Krishan Kumar, ArunPraksh, Rajeev Tripathi, "Context aware spectrum handoff scheme in cognitive radio vehicular networks," InderscienceInternational Journal of Ad Hoc and Ubiquitous Computing, Accepted for publication.

**Journal Publications:**

1. **RohitDhiman, Rohit Sharma, and RajeevanChandel**, "Compact models and delay computation of sub-threshold interconnect circuits,"*Analog Integrated Circuits and Signal Processing*,vol. 84, no. 1, pp. 53-65, July 2015.

**Book Chapter:**

- **YashAgarwal, RohitDhiman and RajeevanChandel**, “High Performance Current mode Receiver Design for On-chip VLSI Interconnects,” in *Proc. Advances in Intelligent and Soft Computing*, **Springer, April 2015 (Chapter No. 54)**.

**International Conference:**

- Rahul Singh, **RohitDhiman** and RajeevanChandel, “Design and analysis of a novel automatic gain control pre-amplifier circuit for hearing aid device,” **IEEE CONECCT, July 2015.**

**Workshops/STC organized:-**

1. Workshop on Android Application Development to be organized during March 21 - 22, 2015 at NITH Sanction order no. NITH/TEQIP-II/I.I.I.-20/2015/2481-86 dated 27.5.2015 **by Dr. SurenderSoni, Associate Professor.**
2. 02 days workshop on ASPEN PLUS to be organized by Team HERMATICA (CHED) during February 20 - 21, 2016 **by Dr. SurenderSoni, Associate Professor.**
3. Short Term Course on “Advances in Design Techniques for Low Power VLSI and MEMS Systems) 18<sup>th</sup> to 23<sup>rd</sup> July 2016 at NIT Hamirpur **by Dr. GargiKhanna, Associate Professor, E&CED.**
4. One day workshop on “Practical Implementation on Ham Radio,” on 22<sup>nd</sup> April 2016 **by Dr. GargiKhanna, Associate Professor, E&CED.**
5. Two days workshop on Blue Bot on February 2016 at NIT Hamirpur **by Dr. GargiKhanna, Associate Professor, E&CED.**
6. STC on "EDA Tools and Design Methodologies in VLSI & Communication Systems (ETVCS-15)" from June 12 - 16, 2015 by Dr. AshwaniRana, Associate Professor, E&CED.
7. STC on "EDA Tools and Design Methodologies in VLSI & Communication Systems (ETVCS-15)" during June 12 - 16, 2015 **by Dr. AshwaniRana, Associate Professor, E&CED.**
8. STC on "EDA Tools and Design Methodologies in VLSI & Communication Systems (ETVCS-15)" during June 12 - 16, 2015 **by Dr. AshwaniRana, Associate Professor, E&CED.**
9. 06 days STC on "Impact of electronic waste on environment (leWE-16)" during July 04 - 09, 2016 **by Dr. AshwaniRana, Associate Professor, E&CED.**
10. Two days workshop on "Design for Testability on Mentor Graphics Tools" to be held during April 11 - 12, 2016. **by Dr. Philemon Danial, Assistant Professor:**

**Courses/Workshop attended by faculty members:-**

1. Dr. RajeevanChandel., Professor, E&CED attended Workshop on "Advanced Semiconductor Packaging Workshop" to be organized by IIT Ropar (Punjab) during November 07, 2015 held at IIT Ropar (Punjab).
2. Sh. Gagnesh Kumar, Assistant professor, E&CED attended courses on "Recent Trends on VLSI Design and Communication Systems" to be organized by the Deptt. Of E&CE, SLIET Longowal, District Sangrur (Punjab) during June 01 - 05, 2015.



3. Dr. PhimlemonDanial, Assistant Professor, E&CED attended Two days training programme for an Industry Collaborated Course on "System Design on Zynq Using SDSoC" to be organized by IIT Chennai during January 2 - 3, 2016 to be held at IITR Chennai.

#### Placement Record for the year 2015-16

B.Tech= 85 %

M.Tech= 65%

#### 4. (c ) Doctoral Programme: 17 ongoing

| Sr. No. | Name of Guide         | Name of students           | Brief Report                       |
|---------|-----------------------|----------------------------|------------------------------------|
| 1.      | Prof. RajeevanChandel | Mr. YashAgarwal            | Full-Time in VLSI (under TEQIP-II) |
| 2.      | Dr. AshwaniRana       | Mr. Rajneesh Sharma        | Full-Time in VLSI (under TEQIP-II) |
| 3.      | Dr. GargiKhanna       | Ms.TarunChaudhary          | Full-Time in VLSI (under TEQIP-II) |
| 4.      | Prof. RajeevanChandel | Mr. MekalaGirish Kumar     | Full-Time in VLSI (under MHRD)     |
| 5.      | Dr. SurenderSoni      | Mr. Manjeet Singh          | Part-Time in CSN (under MHRD)      |
| 6.      | Dr. SurenderSoni      | Mr. VinithChauhan          | Part-Time in CSN                   |
| 7.      | Dr. Ashok Kumar       | Mr. Vicky Kumar            | Part-Time in CSN (under TEQIP-II)  |
| 8.      | Dr. Ashok Kumar       | Mr. Gaurav                 | Full-Time in CSN (under MHRD)      |
| 9.      | Dr. GargiKhanna       | Mr. ApooravDwivedi         | Full-Time in VLSI (under TEQIP-II) |
| 10.     | Dr. AshwaniRana       | Mr. Ritu Raj Singh Rathore | Full-Time in VLSI (under TEQIP-II) |
| 11.     | Dr. AshwaniRana       | Mr. Vinod Kumar            | Part-Time in VLSI                  |
| 12.     | Dr. SurenderSoni      | JyotiBhola                 | Full time in CSN (under DeitY)     |
| 13.     | Dr. Philemon Danial   | M. Kodeeswari              | Full time in VLSI (under DeitY)    |
| 14.     | Dr. surenderSoni      | M. NithinVarma             | Full time in CSN (under DeitY)     |
| 15.     | Dr. AshwaniRana       | Ms. Shalu                  | Full time in CSN (under DeitY)     |

|     |                 |                |                                    |
|-----|-----------------|----------------|------------------------------------|
| 16. | Dr. Ashok Kumar | AshishGoswami  | Full time in CSN<br>(under DeitY)  |
| 17. | Dr. GargiKhanna | PrateekAsthana | Full time in VLSI<br>(under DeitY) |

**4 (d) M.Tech Thesis completed (Year 2014-2016): -**

**VLSI and Design Automation Technique**

**Communication System and Network:-**

| Sr. No. | Roll No. | Name of students         |
|---------|----------|--------------------------|
| 1       | 14M431   | Ms. Anjali Kaushik       |
| 2.      | 14M432   | Mr.Rachit Gupta          |
| 3       | 14M433   | Mr.Sanjeev Kumar Singh   |
| 4.      | 14M434   | Mr.GuttiJaswanth         |
| 5.      | 14M435   | Mr. Patel Bhaumik. G     |
| 6.      | 14M436   | Mr.Satya Pal Singh       |
| 7.      | 14M437   | Mr.Shailesh Singh        |
| 8.      | 14M438   | Mr.Shivendra Singh Yadav |
| 9.      | 14M439   | Mr. S. Surya Prakash     |
| 10.     | 14M440   | Mr. Anil Kumar Palange   |
| 11.     | 14M441   | Mr.Omprakash Kumar       |
| 12.     | 14M442   | Mr.Sonveer               |
| 13.     | 14M444   | Mr.Mohd. FeerozShekh     |
| 14.     | 14M445   | Mr.Chandan Kumar Jha     |
| 15.     | 14M446   | Ms.Sakshi                |

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



### 1. ACADEMIC STAFF:

**HEAD:** Dr. Narottam Chand  
Ph.D

#### FACULTIES

| Professor                                     | Associate Professor               | Assistant Professor                      |
|---|-----------------------------------|--|
| Dr. Lalit Kumar Awasthi<br>Ph. D<br>(On Lien) | Dr. Narottam Chand Ph. D          | Dr. Siddhartha Chauhan Ph. D             |
|   | Dr. T.P. Sharma Ph. D             | Dr. Naveen Chauhan Ph. D                 |
|   | Dr. (Mrs.) Kamlesh Dutta<br>Ph. D | Sh. Rajeev Kumar                         |
|   |                                   | Sh. Pardeep Kumar                        |
|   |                                   | Sh. Nitin Gupta                          |
|   |                                   | Dr. Madhu Kumari Ph. D                   |
|   |                                   | Dr. Lokesh Chouhan (on contract)<br>Ph.D |

### 2. DISTINCTION ACHIEVED:

#### (a) By student:

- 1 Avani Sharma, Himanshu Shigh, Abhinav Mishra, Ankit Verma, Rana Gautam and Narottam Chand "Improving Page Ranking for Search Engines" International Conference on Current Research in Engineering and Technology (ICET), pp.1-5, Feb, 2016.

#### (b) By faculty member:

- 1 Dr. Narottam Chand has acted reviewed in:

**Journals/Books/Book Chapters:**

1. IEEE Communication Letters.
2. Cloud Computing (CENGAGE Learning Book)
3. International Journal of Information and Communication Technology (Inderscience).
4. Chinese Journal of Aeronautics.
5. International Journal of Wireless Networks (Springer)
6. International Journal of Communication Networks and Distributed Systems (Inderscience)
7. Computer and Electrical Engineering Journal (Elsevier)
8. Computer Networks (Elsevier)
9. International Journal of Science and Technology (MIJST)
10. Iranian Journal of Electrical and Computer Engineering (IJECE)
11. Web Technology (CENGAGE Learning Book)
12. International Journal of Security and Networks (Inderscience)
13. International Journal of Communication System (Wiley)
14. International Journal of Security and Communication Networks (Wiley)
15. International Journal of Artificial Intelligence & Soft Computing (Inderscience)
16. Data Communication and Networks by AS Godbole (Tata McGraw Hill Book)
17. International Journal of Next Generation Computing.
18. Mobile Information System (International Journal, IOS Press)
19. International Journal of Ad Hoc & Ubiquitous Computing (Inderscience)
20. Research Journal of Information Technology
21. Journal of Artificial Intelligence
22. Asian Journal of Information Management
23. Ubiquitous Computing and Communication Journal
24. ICTACT Journal on Communication Technology (IJCT)

**Conferences:**

1. IEEE International Conference on Image Information Processing (ICIIP), Dec 21-24, 2015, JPUIT, India
2. International Conference on Computer, Communication and Security (ICCCS), Dec 04-06, 2015, Mauritius.
3. International Conference on Next General Computing Technologies (NGCT), Sep 04-05, 2015, India
4. International Symposium on Computer Vision and the Internet (VIONNET), Aug 10-13, 2015, India
5. International Conference on Advances in Computing & Communication Engineering (ICACCE), May 01-02, 2015, India.

**3. SEMINAR, SYMPOSIA, SUMMER SCHOOL, WINTER SCHOOL, SHORTTERM COURSE:****(a) Conducted in the CSE Department:**

| Sponsoring Agency | Name of the Coordinator | Title | Duration |
|-------------------|-------------------------|-------|----------|
|-------------------|-------------------------|-------|----------|

|  |   |  |   |
|--|---|--|---|
| NIT Hamirpur                               | Dr. Narottam Chand<br>Er. Pardeep Kumar                       | Free and Open<br>Source Software                                       | 01 day<br>(19 <sup>th</sup> September,<br>2015) |
| ISEA Project<br>Phase-II &<br>CDAC, Mohali | Dr. Narottam Chand<br>Dr. Naveen Chauhan                      | Workshop on<br>Information Security                                    | 01 day (3 <sup>rd</sup> October,<br>2015)       |
| ISEA Project<br>Phase-II                   | Dr. Narottam Chand<br>Dr. Naveen Chauhan<br>Dr. Ashiwani Rana | STC on 'Security<br>Trends in Mobile ad-<br>hoc and Sensor<br>Systems' | 05 days<br>(11-15 <sup>th</sup> March,<br>2016) |
| TEQIP-II                                   | Dr. Naveen Chauhan<br>Er. Rajeev Kumar                        | Workshop on<br>'Ethical Hacking  | 02 days<br>(12-13 <sup>th</sup> March,<br>2016) |
| ISEA Project<br>Phase-II &<br>CDAC, Mohali | Dr. Narottam Chand<br>Dr. Naveen Chauhan<br>Er. Rajeev Kumar  | STC on 'Information<br>Security  | 02 days<br>(18-19 <sup>th</sup> March,<br>2016) |

**(b) Participated by Faculty Members**

| Name of the Staff                        | Course/Seminar   | Organization       | Duration         | Venue          |
|--|--|--------------------|------------------|----------------|
| Dr. Naveen Chauhan                       | Course on "Wireless sensor Networks & Internet of Things"  | IIT, Kharagpur     | May 11-15, 2015  | IIT, Kharagpur |
| Dr. Narottam Chand<br>Dr. Naveen Chauhan | First Annual Appraisal Workshop of Information Security Education and Awareness (ISEA) Project Phase-II  | IISc Bangalore     | June 12-13, 2015 | IISc Bangalore |
| Dr. Narottam Chand                       | First RC-PI (Cluster 5) Meeting of Information Security Education and Awareness (ISEA) Project Phase-II  | Online<br>RC, IITR | Aug 14, 2015     | Online         |
| Dr. Narottam Chand                       | Second RC-PI (Cluster 5) Meeting of Information Security Education and Awareness (ISEA) Project Phase-II | IIT Roorkee        | Oct 29, 2015     | IIT Roorkee    |

|  |  |                   |                   |               |
|--|--|-------------------|-------------------|---------------|
| Dr. Naveen Chauhan<br>Er. Rajeev Kumar                       | Development Programme on “Promoting Quality in Higher Technical Education”                               | IITM, Gwalior     | Jan. 18-22, 2016  | IITM, Gwalior |
| Dr. Narottam Chand   | Second Annual Appraisal Workshop of Information Security Education and Awareness (ISEA) Project Phase-II | IIT Madras        | Feb 01-02, 2016   | IIT Madras    |
| Dr. Naveen Chauhan<br>Er. Rajeev Kumar<br>Dr. Lokesh Chauhan | Characterizing the Uncertainties in Climate Change Impacts Assessment for Water Resources                | CED, NIT Hamirpur | Feb. 22-26, 2016  | NIT Hamirpur  |
| Dr. Narottam Chand<br>Dr. Naveen Chauhan                     | World Summit on Accreditation (WOSA-2016)  | NBA, Delhi        | March 18-20, 2016 | Delhi         |

#### 4. RESEARCH:

##### a. Research Scheme:

| Title of the Scheme   | Sponsored by               | Assistance Received (Rs) in lakh | Investigator       |
|---|----------------------------|----------------------------------|--------------------|
| Energy Efficient Wireless Sensor Network Routing Protocol for Snow Bound Himalayan Region | SASE Lab, DRDO, Chandigarh | 1.17 lakh                        | Dr. Narottam Chand |



**b. RESEARCH PUBLICATION FOR THE YEAR 2015-16:**

**i) PAPER PUBLISHSED BY FACLUTIES:**

1. Dr. Narottam Chand, Gopal Chand Gautam, "Quantitative and Qualitative Analysis of Time Synchronization Protocols for Wireless Sensor Networks," International Journal of Sensors, Wireless Communications and Control, Vol. 5, No. 2, pp. 2-19, 2015.
2. RN Sharma, Narottam Chand, Veena Sharma and DeepikaYadav, "Decision Support System for Operation, Scheduling and Optimization of Hydro Power Plant in Jammu and Kashmir Region," Elsevier Renewable and Sustainable Energy Reviews, Vol. 43, pp. 1099-1113, March 2015.
3. Ajay Guleria, Kuldip Singh and Narottam Chand, "QoS Aware Service Scheduling Scheme for VANETs," International Journal of Distributed Sensor Networks, pp. 1-11, 2015.
4. Gopal Chand Gautam and Narottam Chand, "Quantitative and Qualitative Analysis of Time Synchronization Protocols for Wireless Sensor Networks," International Journal of Sensors, Wireless Communications and Control, Vol. 5, No. 2, pp. 2-19, 2015.
5. Pushpender Kumar and Narottam Chand, "Lifetime Enhancement of Wireless Multimedia Sensor Networks Using Data Compression," International Journal of Wireless Networks and Broadband Technologies, Vol. 4, No. 1, pp. 56-78, 2015.
6. BB Dubey, Naveen Chauhan, Narottam Chand and LalitAwasthi, "Analyzing and Reducing Impact of Dynamic Obstacles in Vehicular Ad hoc Networks," Wireless Networks, Vol. 21, No. 5, pp. 1631-1645, 2015.
7. Rajeev Singh and TP Sharma, "A Novel Sequence Number Based Secure Authentication Scheme for Wireless LANs," Journal of Electronics Science & Technology (JEST), Vol. 13, No. 2, pp. 144-152, 2015.
8. Sunil Kumar, KamleshDutta and AnkitAsati, "Two Pass Port Scan Detection Technique Based on Connection Pattern and Status on Sampled Data," Journal of Computer and Communications, Vol. 3, No. 9, pp. 1-8, 2015.
9. PriyankaDadhich, KamleshDutta and MC Govil, "Detection of Slanders Through Euclidean Distance Similarity Assessment for Securing E-commerce Agents in P2P Decentralised Electronic Communities," International Journal of Security and Networks, Vol. 11, No. 1/2, pp. 48-65, 2016.
10. Avani Sharma, Himanshu Singh, Abhinav Mishra, AnkitVerma, RanaGautam and Narottam Chand, "Improving Page Ranking for Search Engines," International Conference on Current Research in Engineering and Technology (ICET), pp. 1-5, Feb,2016.

11. Rajeev Singh and T.P. Sharma, "On the IEEE 802.11i Security: A Denial of Service Perspective," Wiley Journal of Security and Communication Networks, 2015, 8(7):1378-1407.IF: 0.311, [SCI Journal]
12. Abhiram Singh, T.P. Sharma, "Position and Hop-Count Assisted Full Coverage Control in Dense Sensor Networks," Springer Wireless Networks, 21:625-638, 2015. [SCI Journal]
13. Rajeev Singh and T.P. Sharma, "A Novel Sequence Number Based Secure Authentication Scheme for Wireless LANs," Journal of Electronics Science & Technology (JEST), 2015, 13(2):144-152.
14. K.P. Sharma, T.P. Sharma, "Deployment Strategies for Mobile Wireless Sensor Networks (MWSNs)," International Journal of Advanced Research in Computer Science, vol. 6, no. 1, pp. 102-108, 2015.
15. K.P. Sharma, T.P. Sharma, "A Comparative Study of Deployment Strategies in Wireless Sensor Networks," International Journal of Engineering, Management & Sciences (IJEMS), vol. 2, no. 5, pp. 1-6, 2015.
16. K.P. Sharma and T.P. Sharma, "CPFR: Coverage preserving failure recovery in wireless sensor networks," in International Conference on Advances in Computer Engineering and Applications (ICACEA), 2015, 2015, pp. 284–289.
17. K.P. Sharma and T.P. Sharma, "A throughput decent and energy efficient mechanism for fault detection in WSNs," in International Conference on Industrial Instrumentation and Control (ICIC), 2015, 2015, pp. 311–316.
18. K.P. Sharma and T.P. Sharma, "A reactive scheme for detecting soft faults in wireless sensor networks," 1st International Conference on Next Generation Computing Technologies (NGCT-2015), pp. 217–222, 2015.
19. VishakhaDhiman, T.P. Sharma, "Optimal Node Deployment for Fault Tolerant Wireless Sensor Networks: A Survey" International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), vol. 4, issue 5, pp. 1710-1717, May 2015
20. K.P. Sharma, T.P. Sharma, "rDFD: reactive distributed fault detection in wireless sensor networks," Springer Wireless Networks, pp. 1-16, February 2016. DOI 10.1007/s11276-016-1207-1 [SCI Journal]
21. K.P. Sharma, T.P. Sharma, "ZBFR: Zone Based Failure Recovery in WSNs by Utilizing Mobility and Coverage Overlapping," Springer Wireless Networks, May 2016. [SCI Journal]
22. K.P. Sharma, T.P. Sharma, "Energy-hole avoidance and lifetime enhancement of a WSN through load factor," Turkish Journal of Electrical Engineering and Computer Sciences, 2016. [SCI Journal] (Accepted)

23. Rajeev Singh and T.P. Sharma, "A Location Based Method for Restricting the Flooding DoS Effect in WLANs," Taylor and Francis Journal of Location Based Services, 2016, 9(4): 273-295. IF: 0.63, [Scopus Journal]
24. K.P. Sharma, T.P. Sharma, "A Reactive Approach for Detecting Transient and Permanent Fault in Wireless Sensor Networks," Inderscience International Journal of Communication Networks and Distributed Systems, 2016. (Accepted) [Scopus (Elsevier), ACM Digital Library, DBLP]
25. Kulwardhan Singh, T.P. Sharma, "Energy-Efficient Routing Scheme Using Mobile Sinks In Wireless Sensor Networks," International Journal of Industrial Electronics and Electrical Engineering (IJIEEE), vol. 4, issue 2, pp. 34-38, Feb 2016.
26. Kulwardhan Singh, T.P. Sharma, "Handling Sink and Event Mobility in WSNs," Sixth International Conference on Computational Intelligence and Information Technology (CIIT-2016), Cochin, India, 14-15 May, 2016. (Accepted)

ii) **PAPER PRESENTED IN CONFERENCE/SEMINAR/SYMPOSIUM: NIL**

iii) **PAPER ACCEPTED FOR PUBLICATION: NIL**

(b) **Research Publication:**

i) **PAPER PUBLISHED BY FACULTIES: 26**

ii) **PAPER PRESENTED IN CONFERENCE/SEMINAR/SYMPOSIUM: NIL**

iii) **PAPER ACCEPTED FOR PUBLICATION: NIL**

iv) **PATENT: NIL**

(c) **Doctoral Programme: 02Nos Submitted & 20 Nos in progress**

(d) **Ph.D Degree awarded: 03 Nos**

(e) **Master thesis completed: 27Nos**

| Sr. No | Title  | Guide              | Name of the student | Brief Report |
|--------|--|--------------------|---------------------|--------------|
| 1.     | Acceptance Modeling of M-Learning and Prioritization of Accepted M-Learning Requirements | Dr.KamleshDutta    | Amit Kumar          | Completed    |
| 2      | Clustering in Wireless Sensor Networks Using Spectral Graph                              | Dr. Narottam Chand | Ankur Gupta         | Completed    |

|    |  |                         |                      |           |
|----|--|-------------------------|----------------------|-----------|
|    | Partitioning   |                         |                      |           |
| 3  | Power Saving in Backbone Network   | Sh. Rajeev Kumar        | Ashrut               | Completed |
| 4  | Phrase Based Clustering In Biomedical Text Mining  | Dr. MadhuKumari         | DevendraMeena        | Completed |
| 5  | Relation Extraction Using Topic Models In Social Networks                                    | Dr. MadhuKumari         | GouravKatyal         | Completed |
| 6  | Community Evolution in Online Social Network   | Dr. MadhuKumari         | Mohammad Ahsan       | Completed |
| 7  | Automated Hardware Synthesis of C/C++ Functions Described in Imperative Language             | Sh. Kumar SambhavPandey | Md.Shamsuddin        | Completed |
| 8  | Dataflow Compilation of C/C++ Functions Described in Imperative Language                     | Sh. Kumar SambhavPandey | Raghvendra Singh Jat | Completed |
| 9  | Heterogeneous Computing with GPGPU for Time Complexity Reduction in DALI Structure Alignment | Mr. Nitin Gupta         | Rajiv Kumar V        | Completed |
| 10 | Optimizing Part-of-Speech Tagger for Hindi   | Mr. Pardeep Singh       | SaurabhChhabra       | Completed |
| 11 | RISE-ORP Framework for Resource Provisioning in Cloud Computing Environment                  | Dr. KamleshDutta        | Shivangi Nigam       | Completed |
| 12 | Confidentiality in Cloud Computing   | Dr. Siddhartha Chauhan  | PushpendraBansal     | Completed |
| 13 | Agent Based Transaction Management in Mobile Heterogeneous Environment                       | Dr. Naveen Chauhan      | Pramila.S            | Completed |
| 14 | Optimization & Evaluation of Performance of Automatic Machine Translation                    | Mr. Pardeep Singh       | VandanaSahaya        | Completed |
| 15 | Prevention of Sybil Attack in  | Sh. Rajeev Kumar        | Adil Umar Khan       | Completed |

|           |   |                        |                 |           |
|-----------|---|------------------------|-----------------|-----------|
|           | Vehicular Ad-hoc network with Privacy Preservation                                    |                        |                 |           |
| <b>16</b> | Hybrid Cellular MANET Based Emergency Communication System for Natural Disasters      | Dr. Naveen Chauhan     | HimanshuVerma   | Completed |
| <b>17</b> | Fault Diagnosis in Wireless Sensor Networks   | Dr. Naveen Chauhan     | P.AnanthaRao    | Completed |
| <b>18</b> | A Multicast Algorithm for Gateway Load Balancing in Wireless Mesh Network             | Sh. Rajeev Kumar       | PragyaChaudhary | Completed |
| <b>19</b> | Distributed Clustering Protocol for Wireless Sensor Network                           | Dr. Siddhartha Chauhan | Shiv Kumar      | Completed |
| <b>20</b> | Distributed Range Based Localization in Wireless Sensor Networks                      | Dr. Siddhartha Chauhan | Arpit Gupta     | Completed |
| <b>21</b> | Localized Algorithm for Channel Assignment in Cognitive Radio Networks                | Mr. Nitin Gupta        | HarpreetKAur    | Completed |
| <b>22</b> | Energy Aware Recovery from Network Partitioning in Wireless Sensor Networks           | Dr. T.P. Sharma        | Pankaj Kumar    | Completed |
| <b>23</b> | Determining Global State of Wireless Sensor Network with Minimum Overhead             | Dr. T.P. Sharma        | VarshaChoudhary | Completed |
| <b>24</b> | Node Deployment for Fault Tolerant Wireless Sensor Networks                           | Dr. T.P. Sharma        | VishakhaDhiman  | Completed |
| <b>25</b> | Multilevel Clustering based Time Synchronization Protocol for Wireless Sensor Network | Dr. Siddhartha Chauhan | Ashish          | Completed |
| <b>26</b> | Avalanche Prediction Show Bound Region Through Wireless                               | Dr. Narottam Chand     | Surjeet Singh   | Completed |

|    |  |                    |                 |           |
|----|--|--------------------|-----------------|-----------|
|    | Sensor Networks                                      |                    |                 |           |
| 27 | Cooperative Localization in Wireless Sensor Networks | Dr. Narottam Chand | C. Subrahmanyam | Completed |

(f) **DOCTORAL PROGRAMME:**

| Sr. No | Title   | Guide                                | Name of the student    | Brief Report |
|--------|---|--------------------------------------|------------------------|--------------|
| 1      | Efficient Security Protocol for Mobile Environment                  | Dr. L. K. Awasthi                    | Sh. Ashok Nanda        | Awarded      |
| 2      | Securing Information over Mobile Adhoc Networks                     | Dr. T.P. Sharma                      | Sh. Rajeev Singh       | Awarded      |
| 3      | Efficient Data Dissemination in Wireless Multimedia Sensor Networks | Dr. Narottam Chand                   | Sh. Pushpender Kumar   | Awarded      |
| 4      | Reputation Based Trust for Secure Mobile Agents                     | Dr. KamleshDutta                     | Mrs. PriyankaDadhich   | Submitted    |
| 5      | Distributed Systems   | Dr. T.P. Sharma                      | Sh. Krishan pal Sharma | Submitted    |
| 6      | Efficient Resource Allocation in Cloud Computing                    | Dr. KamleshDutta                     | Sh. Avtar Singh        | In progress  |
| 7      | Security in Mobile Agent  | Dr. KamleshDutta<br>Dr. L.K. Awasthi | Sh. AnoopPatnaik       | In progress  |
| 8      | Secure Data Aggregation in WSN                                      | Dr. KamleshDutta                     | Sh. Mukesh Kumar       | In progress  |
| 9      | Intrusion Detection System for Mobile Adhoc Networks                | Dr. KamleshDutta                     | Sh. Sunil Kumar        | In progress  |
| 10     | Anaphora & Conference   | Dr. KamleshDutta                     | Sh. Pardeep Singh      | In progress  |



|    | Resolution.   |  |                        |             |
|----|---|--|------------------------|-------------|
| 11 | Energy Efficient Data Dissemination in Wireless Sensor Networks | Dr. L. K. Awasthi/<br>Dr.NaveenChauhan | Sh. Rajesh Sharma      | In progress |
| 12 | Wireless Sensor Networks  | Dr. T.P. Sharma                        | Sh. VipinArora         | In progress |
| 13 | Wireless Sensor Network   | Dr. T.P. Sharma                        | Sh. Kulwardhan Singh   | In progress |
| 14 | Efficient Data Dissemination in Vehicular Adhoc Networks        | Dr. Naveen Chauhan                     | Sh. BrijBihariDubey    | In progress |
| 15 | Wireless Sensor Networks  | Dr. Narottam Chand                     | Sh. Gopal Chand Gautam | In Progress |
| 16 | Wireless Sensor Network   | Dr. Narottam Chand Dr. Naveen Chauhan  | Sh. Rajeev Kumar       | In Progress |
| 17 | Collaboration in opportunistic Network                          | Dr. Naveen Chauhan                     | Sh.Prashant Kumar      | In Progress |
| 18 | Semantic Interplay in Text Document                             | Dr. MadhuKumari                        | Sh.TriveniLal Pal      | In Progress |
| 19 | Wireless Body Area Network                                      | Dr. Siddhartha Chauhan                 | Mrs. Deep Shikha       | In Progress |
| 20 | QOS in Surveillance Wireless Sensor Network                     | Dr. Siddhartha Chauhan                 | Miss. Anamika Sharma   | In Progress |
| 21 | Social Media Text Analytics                                     | Dr. MadhuKumari                        | Sh.Tajinder Singh      | In Progress |
| 22 | Mobile Ad hoc Networks  | Dr. Siddhartha Chauhan                 | Mr. ShashiGurung       | In Progress |
| 23 | Wireless Communication  | Dr. Siddhartha Chauhan                 | Mr. ArvindDakka        | In Progress |

|           |                          |                    |                   |             |
|-----------|--------------------------|--------------------|-------------------|-------------|
| <b>24</b> | Data Mining              | Dr. MadhuKumari    | Mohammad Ahsan    | In Progress |
| <b>25</b> | Internet of Things (IOT) | Dr. Naveen Chauhan | Mr. Nishant Kumar | In Progress |

**(g) POPULAR LECTURES BY OUTSIDE EXPERTS:**

| <b>Sr. No</b> | <b>Date</b>       | <b>Speaker</b>   | <b>Topic</b>   |
|---------------|-------------------|--|--|
| <b>1</b>      | Oct 03, 2015      | <ul style="list-style-type: none"> <li>i) Mr. Navedeep Singh Chahal, CDAC Mohali</li> <li>ii) Mr. Ch. A.S. Murthy, CDAC Hyderabad</li> <li>iii) Mr. HariBabu, CDAC Bangalore</li> <li>iv) Mr. Sunil K. Chillar, CDAC Mohali</li> <li>v) Mr. Harpreet Singh, CDAC Mohali</li> </ul> | <ul style="list-style-type: none"> <li>i) Information Security</li> <li>ii) Internet of Things</li> <li>iii) Cloud Computing</li> </ul>  |
| <b>2</b>      | March 11-15, 2016 | Faculty from CSE NIT Hamirpur and IIT Ropar  | <ul style="list-style-type: none"> <li>i) Information Security</li> <li>ii) Security in Wireless Environment</li> <li>iii) Resource Optimization in Mobile Systems</li> <li>iv) Nano Electronics Solutions for Hardware Security</li> <li>v) Data Caching and Security in MANETs</li> <li>vi) Intrusion Detection System in MANETs</li> <li>vii) Security Threats in WSNs</li> </ul> |

|          |                   |   |  |
|----------|-------------------|---|--|
|          |                   |   |  |
| <b>3</b> | March 12-13, 2016 | <b>i)</b> Mr. Aman Gupta<br><b>ii)</b> Mr. Jyotiraditya<br><b>iii)</b> Mr. SachinRana<br><b>iv)</b> Mr. Navdeep Singh<br>From Apron Solutions Pvt. Ltd.<br>Noida.   | <b>i)</b> Ethical Hacking<br><b>ii)</b> Cyber Security   |
| <b>4</b> | March 18-19, 2016 | <b>i)</b> Mr. Navedeep Singh Chahal,<br>CDAC Mohali<br><b>ii)</b> Mr. Jayants Parial, CDAC Kolkata<br><b>iii)</b> Mr. Chetan Soni, CDAC Mohali<br><b>iv)</b> Mr. Sukhmeet Singh, CDAC<br>Mohali<br><b>v)</b> Mr. Rahul Kumar, CDAC Mohali | <b>i)</b> Cyber Security<br><b>ii)</b> Malware Analysis<br><b>iii)</b> Network Attacks (Wired + Wireless)<br><b>iv)</b> Website Security Threats |

**(h) CONSULTANCY SERVICES:**

| <b>Sr. No</b> | <b>Name of the Scheme</b>  | <b>Sponsored Agency</b>   | <b>Amount Earned</b> |
|---------------|--|---|----------------------|
| <b>1.</b>     | Consultancy Service to Kangra Central Cooperative Bank for Establishment of CBS & Internet Banking                       | Kangra Central Cooperative Bank<br>(2009 to Present)                  | 46.82 Lacs           |
| <b>2.</b>     | Design and Development of Software for Optimization of Real Time Operation of Hydro Power Plants                         | BHEL Bangalore (2007 to Present)                                      | 9.60 Lacs            |
| <b>3.</b>     | Automation of Dr. Rajindra Prasad Govt. Medical College Kangra   | Dr. Rajindra Prasad Govt. Medical College Kangra (2012 to Present)    |                      |
| <b>4.</b>     | Consultancy Service to Kangra Central Cooperative Bank for Establishment of Surveillance and Biometric Attendance system | Kangra Central Cooperative Bank<br>(2013 to Present)                  | 2.07 Lacs            |
| <b>5.</b>     | Consultancy Service to Kangra Central Cooperative Bank for Establishment of ATMs System                                  | Kangra Central Cooperative Bank (2013 to Present)                     |                      |
| <b>6.</b>     | Migration from IPv4 to IPv6 of 27 LANs and Websites of Vizag Steel, RashtriyaIspat Nigam Ltd, Vishakhapatnam             | Vizag Steel, ashtriyaspat Nigam Ltd, Vishakhapatnam (2013 to Present) |                      |
| <b>7.</b>     | Consultancy Service to Punjab State Cooperative Bank for Establishment of ATMs, EFT Switching and Allied Services        | Punjab State Cooperative Bank (2014 to Present)                       |                      |

**(i) EQUIPMENT ACQUIRED:**

| <b>Sr. No</b> | <b>Name of equipment</b> | <b>Name of manufacturer</b> | <b>Cost (Rs. In lakh)</b> |
|---------------|--------------------------|-----------------------------|---------------------------|
| NIL           |                          |                             |                           |

**5. TECHNICAL ASSOCIATION / SOCIETIES:**

- i) ACM Student Chapter (w.e.f. 19th Oct, 2015)

**6. DETAIL OF THE LABORATORIES:**

| <b>Sr. No.</b> | <b>Name of the Laboratory</b> |
|----------------|-------------------------------|
| 1.             | COMPUTER NETWORK LAB          |
| 2.             | PARALLEL PROCESSING LAB       |
| 3.             | COMPUTER GRAPHICS LAB         |
| 4.             | IMAGE PROCESSING LAB          |
| 5.             | DBMS LAB                      |
| 6.             | MICROPROCESSOR LAB            |
| 7.             | NETWORK SECURITY LAB          |
| 8.             | COMPUTATIONAL LAB             |
| 9.             | COMPUTER LAB I                |
| 10.            | COMPUTER LAB II               |
| 11.            | RESEARCH LAB                  |

## DEPARTMENT OF ARCHITECTURE



### 1. ACADEMIC STAFF

**HEAD** Dr. I.P. Singh  
Ph.D

#### FACULTIES:

| Professor                 | Associate Professor | Assistant Professor        |
|---------------------------|---------------------|----------------------------|
| Dr. Minakshi Jain Ph.D    | Dr. I.P. Singh Ph.D | Ar. Amanjeet Kaur M.Arch.  |
| Dr. Bhanu Marwaha<br>Ph.D |                     | Ar. Amitava Sarkar M.Arch. |
|                           |                     | Ar. Vandna Sharma M.Arch   |
|                           |                     | Ar. Venu Shree M.Arch.     |
|                           |                     | Ar. Sandeep Sharma M.Arch. |
|                           |                     | Ar. Puneet Sharma M.Arch   |
|                           |                     | Ar. Aniket Sharma M.Arch   |
|                           |                     | Ar. Neetu Kapoor M.Arch.   |

### 2. Distinction Achieved:

- a) By Student: 02 nos.  
b) By Faculty Member: -----

### 3. Research:



**a) Research Publication**

**i) Paper Published by faculties:**

**International journal**

1. Jain M., "Historic Gardens – Patterns of Nature and Culture" International Journal of Landscape Planning and Architecture Vol. 1, No 1 (2015).
2. Singh I.P. and Jain M., "Effective Site Planning for Sustainable Development", International Journal of Landscape Planning and Architecture Vol 1, No 1 (2015).
3. Singh I.P. and Jain M "Hill Slope Failures and Bio-Engineering Stabilisation Methods" International Journal of Environmental Planning & Development Vol 1, No 1 (2015) .
4. VandnaSharma ,Hemant K. Vinayak , Bhanu M. Marwaha. Enhancing compressive strength of soil using natural fibers. Construction and Building Materials 93(2015)943–949, Elsevier.
5. VandnaSharma ,Hemant K. Vinayak , Bhanu M. Marwaha. Enhancing sustainability of rural adobe houses of hills by addition of vernacular fiber reinforcement. International Journal of Sustainable Built Environment (2015), <http://dx.doi.org/10.1016/j.ijsbe.2015.07.002>, Elsevier.
6. SS Chandel ,Aniket Sharma, Bhanu M. Marwaha, Review of energy efficiency initiatives and regulations for residential buildings in India, Renewable and Sustainable Energy Reviews, Volume 54, February 2016, Pages 1443-1458 (Elsevier).
7. Aniket Sharma, Bhanu M. Marwaha, Development of simulation weather data for Hour wise Daily Diffused and Direct Solar Radiation from Hourly Global Radiation using statistical estimation method for Subtropical region. International Journal of Renewable Energy Research (IJRER) (Forthcoming).
8. Aniket Sharma, Bhanu M. Marwaha Review of Building regulations for energy efficiency in Residential Buildings. Global Built Environment Review. (Forthcoming).
9. Sharma Puneet, Bhanu M. Marwaha. Integration of new Transport modes in urban form of Hill town for Sustainable Development, IIA vol.80, 2015, Issue-9, pages 38-42.
10. Sharma, V. et al. Enhancing durability of adobe by natural reinforcement for propagating sustainable mud housing. International Journal of Sustainable Built Environment (2016)

**National Journal**

**International Conferences**

- National Conference on Architects and Smart Cities Mission. 11-12 April 2016 New Delhi.Organised by IIA.

### Workshop/ Training Organized

- Three days workshop “AAKAR- model making Workshop” held on 9th -11th October, 2015.

### Attended

- Developing competence of faculty for preparing entrepreneurs among students, NIT, Hamirpur (H.P) under TEQIP-II, 11<sup>th</sup> – 15<sup>th</sup> July, 2015.

### Book published

- Venu Shree, Varun Goel and Himanshu Nautiyal, “Carbon Footprint Estimation from a Building Sector in India”, The Carbon Footprint Handbook, CRC press, Taylor & Francis Group. (ISBN 978-1-4822-6222-3).

### b) Doctoral Programme:

04 nos. ongoing

| Sr. No. | Title   | Guide             | Name of the Student | Brief report         |
|---------|---|-------------------|---------------------|----------------------|
| 1.      | Impact of Land Acquisition on affected families   | Dr. Minakshi Jain | Mr. SachinYadav     | State of Art Seminar |
| 2.      | Adaptive Use of vernacular Construction in Present Day Context                          | Dr. BhanuMarwaha  | Ar. Vandna Sharma   | Open Seminar         |
| 3.      | Redefining the urban form of Hill town for sustainable development                      | Dr. BhanuMarwaha  | Ar. Puneet Sharma   | State of Art Seminar |
| 4.      | Impact of Development control regulations on energy efficiency in residential buildings | Dr. BhanuMarwaha  | Ar. Aniket Sharma   | Open Seminar         |

### c) Popular Lectures by Outside Experts:

| Sr. No. | Date     | Speaker         | Topic  |
|---------|----------|-----------------|--|
| 1.      | May 2015 | Ar. R.K. Pandit | Expert lectures on Architecture, urban forms and open spaces |
| 2.      | May 2015 | Ar. Alok Ranjan | Expert lectures on Architecture in present context           |

|    |           |                   |   |
|----|-----------|-------------------|---|
| 3. | June 2015 | Ar. Virender Paul | Expert lectures on Land acquisition and its effects |
|----|-----------|-------------------|---|

#### 4. Consultancy Services:

| Sr. No. | Name of the Scheme                   | Sponsored Agency | Amount earned |
|---------|--------------------------------------|------------------|---------------|
| 1.      | Re-Designing of Library NIT Hamirpur | NIT Hamirpur     | Nil           |
| 2.      | Children Park at Anu Hamirpur H.P.   | MC Hamirpur      | Nil           |

#### 5. Technical Associations/Societies:

| Sr. No. | Name of Professional Societies/ Institutions                  | Name of the Faculty | Status        | National/ International |
|---------|---|---------------------|---------------|-------------------------|
| 1.      | Council of Architecture                                       | Dr. Minakshi Jain   | CA/90/13558   | National                |
| 2.      | Indian Society of Landscape Architects                        | Dr. Minakshi Jain   | J-10/A2007    | National                |
| 3.      | Council of Architecture                                       | Dr. BhanuMarwaha    | CA/92/15454   | National                |
| 4.      | Associate Member of The Indian Institute of Architects Mumbai | Dr. BhanuMarwaha    | A-14291       | National                |
| 5.      | Associate Member of The Indian Institute of Architects Mumbai | Dr. I.P. Singh      | A-16465       | National                |
| 6.      | Council of Architecture                                       | Dr. I.P. Singh      | CA/89/12443   | National                |
| 7.      | Council of Architecture                                       | Ar. Amanjeet Kaur   | CA/2001/28647 | National                |
| 8.      | Member of The Indian Institute of Architects Mumbai           | Ar. Amanjeet Kaur   | Lifetime      | National                |
| 9.      | Council of Architecture                                       | Ar. Amitava Sarkar  | CA/2003/31657 | National                |
| 10.     | Council of Architecture                                       | Ar. Vandna Sharma   | CA/2005/36353 | National                |
| 11.     | Council of Architecture                                       | Ar. Venu Shree      | CA/2006/38789 | National                |
| 12.     | Member of The Indian Institute of Architects Mumbai           | Ar. Sandeep Sharma  | Lifetime      | National                |
| 13.     | Council of Architecture                                       | Ar. Sandeep Sharma  | CA/2006/37836 | National                |
| 14.     | Member of The Indian Institute of Architects Mumbai           | Ar. Puneet Sharma   | Lifetime      | National                |

|     |   |                   |               |          |
|-----|---|-------------------|---------------|----------|
| 15. | Council of Architecture                             | Ar. Puneet Sharma | CA/2004/33626 | National |
| 16. | Institute of Urban Design India                     | Ar. Puneet Sharma | Lifetime      | National |
| 17. | Member of The Indian Institute of Architects Mumbai | Ar. Aniket Sharma | Lifetime      | National |
| 18. | Council of Architecture                             | Ar. Aniket Sharma | CA/2006/38390 | National |
| 19. | Member of The Indian Institute of Architects Mumbai | Ar. Neetu Kapoor  | Lifetime      | National |
| 20. | Council of Architecture                             | Ar. Neetu Kapoor  | CA/2006/37880 | National |

**6.Equipment acquired:**

| Sr. No. | Name of Equipment | Name of Manufacturer | Cost (Rs. In lakh) |
|---------|-------------------|----------------------|--------------------|
| 1.      | NIL               | -----                | -----              |
|         |                   |                      |                    |

**7.Details of Laboratories:**

|    |                              |
|----|------------------------------|
| 1. | Audio Visual Lab             |
| 2. | Research & Documentation Lab |
| 3. | Surveying Lab                |
| 4. | Climatology Lab              |
| 5. | Reprographic Lab             |
| 6. | Workshop                     |
| 7. | Model Making Lab             |
| 8. | Computer Lab                 |

**8.Student Activities:****Events and achievement**

- Society Interiors Design Competition 2015
  - Zonal 1st and 2nd prizes in
    - Product Design
    - Residential Design
    - Commercial design
- IGBCGreen Design Competition
  - Special Mention
- Skyscraper Competition hosted by Aditya Group of Institutions
  - Special Mention

- IIIT Una logo Design Competition
  - 1st Prize
- Transparence 2015
  - Special Mention (2 teams)
- Zonal Finalist in Archumen 2015 by Ethos
- Zonal NASA 2015
  - 1st -Main Design
  - 1st –Photography
  - 2nd – Overall Best College
  - Special Mention- Reuben's
  - Special Mention- Graffiti
- Society Interiors design Competition 2016
  - Zonal 1st Prize in
    - Product Design
    - Residential Design
    - Commercial Design
  - National Special Mention
    - Commercial Design Category
- Birla Yuvaratna 2015 Award
- MohitSehrawat reached Semi-final round of National design Competition organized by CADD Centre
- NIT-H ANNUAL Sports Meet- “Lalkaar” 2016
  - 1st Prize in Inter-branch Basketball Championship
  - 1st prize in Chess Championship
  - 1st prize in Inter-Branch, Inter-year and Best Player Award in Badminton Championship
  - 2nd prize in High Jump
  - 2nd Prize in Relay Race-
  - 3rd Prize in Discuss Throw

## DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES



### 1. **ACADEMIC STAFF**

**HEAD:** Dr. Piar Chand  
Ph.D

#### **FACULTIES:-**

| Professor             | Associate Professor     | Assistant Professor                                |
|-----------------------|-------------------------|--|
| Dr. Piar Chand Ph. D. | Dr. Yogesh Gupta Ph. D. | Dr. Saroj Thakur Ph. D.<br>Dr. Manoj Sharma Ph. D. |

### 2. **RESEARCH:-**

#### (a) **Research Publication:**

#### (I) **Papers published in National and International Conferences/Seminars: 04 Nos.**

- 1 Piar Chand & Shivani Chaudhary (2015), "Key Issues related in Coalescing English for Academic Purpose with the Mainstream English Language Teaching for Engineering Graduates" Alchemist Journal of Humanities vol.3,3.
- 2 Vikas Thakur and Yogesh Gupta (2015) "Evaluation of Telecommunication Sector in India after Liberalization" Political Economy Journal of India, Vol. 23, Issues 1&2. January & June, pp18-23.
- 3 Piar Chand & Nisha Kumari (2015) Emerging Trends in Trade Unions in India, Shimla Journal, HPU, Shimla-5.



- 4 Chand, P and Chand P.K., “Organization Justice Towards CWB behavior in Banking Sector, International Journal of Research in Commerce and Management, Vol.5, issues1, January, 2015.

**(b) Ph.D. Degree Awarded: 02 Nos.**

| Sr. No. | Title  | Guide's                             | Name of Student   | Brief Report   |
|---------|--|-------------------------------------|-------------------|----------------|
| 1       | Establishing a Gap between creation and perception of the advertising discourse                                | Prof. Piar Chand                    | Shivani Chaudhary | Degree Awarded |
| 2.      | Determinants of Academic Achievement of Science Students in Government and Private Schools in Himachal Pradesh | Prof. Piar Chand<br>Prof. I.K.Bhat. | Ms. Himanshu      | Degree Awarded |

**(c) Paper Reviewer – Many Journal of Emerald**

**(d) Book Reviewed: Management Research Methods by Krishnanswamy et al.**

**(e) ONGOING DOCTORAL PROGRAMME: 06 Nos.**

| Sr. No. | Title  | Guide's                      | Name of Student    | Brief Report         |
|---------|--|------------------------------|--------------------|----------------------|
| 1       | The Relationship of Transformational Leadership, Emotional Intelligence and Work Organization Citizenship Behaviors: An Empirical Study. | Prof. Piar Chand             | Ms. Tanvi Mahajan  | Viva to be held.     |
| 2       | Job Stress, Emotion, Organization Justice and antecedents of counter productive work behavior  | Prof. Piar Chand             | Mr. Pawan Chand    | Theses submitted     |
| 3       | Investigation, Measurement and Analysis of SCM dimensions and their effect on SMES Performance   | Dr. Rajiv Kumar Sharma (MED) | Ms. Pratima Mishra | Degree to be awarded |
| 4       | Developing Model to Assess the Benefit   | Dr. Somesh Sharma (MED)      | Mr. Sudhir Rana    | Degree to be awarded |

|   |   |                  |                    |              |
|---|---|------------------|--------------------|--------------|
|   | Impacts Generated by International Marketing to Indian Manufacturing Corporations                         |                  |                    |              |
| 5 | Workplace spirituality, Emotional Ownership and Job Satisfaction: A Paradigm for Managing Job Statistics. | Prof. Piar Chand | Mr. Vikrant Jaswal | In progress  |
| 6 | Performance Analysis of Indian Textile Exports: A Study of Post Reform Period.                            | Dr. Manoj Sharma | Mr. Rahul Dhiman   | In progress. |

### 3. DETAIL OF THE LABORATORIES:

| Sr.No. | Name of the Laboratory |
|--------|------------------------|
| 1.     | Language Lab           |

## DEPARTMENT OF PHYSICS



### 1. ACADEMIC STAFF:

**HEAD** Dr. Kuldeep Kumar Sharma  
Ph.D

#### FACULTIES:

| Professor | Associate Professor            | Assistant Professor    |
|-----------|--------------------------------|------------------------|
| --        | Dr. Subhash Chand Ph. D        | Dr. Rajesh Kumar Ph. D |
|           | Dr. Arvind Kumar Ph. D         | Dr. Vimal Sharma Ph. D |
|           | Dr. Kuldeep Kumar Sharma Ph. D |                        |

### 2. Research:

#### (a) Research scheme

| Title of the scheme  | Sponsored by | Assistance received(Rs.) in lakh | Investigator             | Brief Report |
|--|--------------|----------------------------------|--------------------------|--------------|
| Tailoring the Properties of CNT/HE Material for explosive composite  | DRDO         | 24.84                            | Dr. Vimal Sharma         | Completed    |
| Tailoring the Properties of CNT reinforced Nano Components of Ag, Pd and their alloys for microelectronics | DST          | 17.16                            | Dr. Vimal Sharma         | Completed    |
| Effect of Swift Heavy Ion irradiation on magneto   | IUAC Delhi   | One JRF 14000/per                | Dr. Kuldeep Kumar Sharma | In Progress  |

|   |  |  |  |  |
|---|--|--|--|--|
| transport properties of multilayer of colossal magneto resistance (CMR)/High-TC Superconductors (HTCS)/CMR Thin Films |  | month & Rs.20, 000/- contingency per year. |  |  |
|---|--|--|--|--|

**(b) Research Publication Paper published by faculties:****29 Nos.**

1. Rajender Kumar and Subhash Chand, Structural, optical and electrical characterization of Al/n-ZnO/p-Si/Al heterostructures. Journal of Electronic Materials 44 194-201 (2015)
2. Manish Taunk and Subhas Chand, Chemical synthesis and charge transport mechanism in solution processed flexible polypyrrole films, Materials Science in Semiconductor Processing, 39 (2015) 659-664.
3. N. Rana, Subhash Chand and Arvind K. Gathania, Tailoring the structural and optical properties of ZnO by doping with Ch, Ceramics International 41 (2015)12032-12037.
4. N. Rana, Subhash Chand and arvind K Gathania, Band gap engineering of ZnO by doping with Mg Physica. 90 (2015) 085502 (6pp)
5. Manjula Sharma and Vimal Sharma, Chemical, Mechanical and Thermal Expansion Properties of Carbon Nanotube Reinforced Aluminum Nanocomposite, International Journal of Minerals, Metallurgy and Materials, 23(2):222-223 (2016).
6. Manjula Sharma and Vimal Sharma, Thermal and Electrical Properties of Functionalized Multiwall Carbon Nanotube Reinforced Nanocrystalline Aluminum Matrix Composite, Z Naturforsch A, 71(2):165-174 (2016)
7. Manjula Sharma, Hemant Pal and Vimal Sharma, "The Mechanical Properties Measurement of Multiwall Carbon Nanotube Reinforced Nanocrystalline Aluminum Matrix Composite, AIP Conference Proceedings 1661, 080025 (2015).
8. Hemant Pal and Vimal Sharma, Effect of sintering on mechanical and electrical properties of CNT based silver nanocomposites, India Journal of Physics, 89(3), 217-224, 2015.
9. Hament Pal, and Vimal Sharma, Thermal conductivity of carbon nanotube-silver composite, Transactions of Nonferrous Metals Society of China, 25,154-161, 2015.
10. Manjula Sharma and Vimal Sharma, Investigation of Thermal Expansion and Physical Properties of Carbon nanotube Reinforced Nanocrystalline Aluminum Nanocomposite, Z. Naturforch A, DOI 10.1514/zna-2015-0296.
11. Manjula Sharma and Vimal Sharma, Chemical, mechanical and thermal expansion properties of a carbon nanotube-reinforced aluminum nanocomposite, International Journal of Minerals, Metallurgy and Materials Volume 23, Number 2, February, 2016.
12. Spectroscopic Investigation of interaction between bovine gamma globulin and gold nanoparticles, Ankita Sharma, Kalyan S Ghosh, Bhanu P Singh, Arvind K Gathania, Methods and Applications in Fluorescence 3(2), 025002 1-8, 2015.
13. Optical properties of YV04: Eu<sup>3+</sup> nano-phosphors at different europium concentrations, S Thakur, Arvind K Gathania, India Journal of Physics, 1-7, 2015.
14. Thermal conductivity of carbon nanotube-silver composite. Hemant Pal & Vimal Sharma, Trans. Nonferrous Met. Soc. China, 25, 154-161, 2015.
15. Effect of sintering on mechanical and electrical properties of CNT based silver nanocomposites. Hemant Pal & Vimal Sharma, Indian Journal of Physics, 89, 217-224, 2015.
16. Room-temperature multiferroic behaviour and magnetoelectric coupling in Sm/Fe modified Bi<sub>4</sub> Ti<sub>3</sub> O<sub>12</sub> ceramics synthesized by solid state reaction method: Joginder Paul, Sumit

- Bhardwaj, K.K. Sharma, R.K. Kotnala and Ravi Kumar: Journal of Alloys and Compounds, Vol. 634, 58-64, (2015).
17. Effect of swift heavy ion irradiation on structural and magnetic properties of GdFe 1-xNi<sub>x</sub>O<sub>3</sub> (x<0.2) thin films: Pawanpreet Kaur, K K Sharma, RabiaPandit and Ravi Kumar, Journal of Magnetism and magnetic Materials 398, 220-229 (2015)
  18. Transport properties of La 0.7 Sr. 0.3 MnO<sub>3</sub> /YBa<sub>2</sub> Cu<sub>3</sub> O 7-8 (LSMO/YBCO) heterostructure, Minaxi Sharma, Arvid Kumar, K. K. Sharma, Ravi Kumar and R. J. Chaudhary, American Institute of Physics Proc., 1661, 070013 (2015).
  19. Structural, Electrical and Red Emission Properties of pd/ n-ZnO/ p-Si /Al Heterostrutures Rajender Kumar and Subhash Chand Electron. Mater. Lett. 11 (973-981) 201 DO: 10.1007 / s13391-015-4348-y 2014 Impact factor = 1.980 ISSN: 1738-8090 (print version) ISSN : 2093-6788 (electronic version)
  - 20..Electroactive Phase Induced Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub>-Poly (Vinylidene Difluoride) Composites With Improved Dielectric Properties Sumit Bhardwaj, Joginder Payl, Subhash Chand, K.K. Raina, and Ravi Kumar Journal Of Electronic Material, 44, (3710-3723) 2015 DOI: 10.1007/ s11664-015-3848-8 Impact Factor 1. 491 Print ISSN 0361-5235 Online ISSN 1543-186X
  21. Grouwth and Properties of La<sub>0.7</sub>Sr. <sub>3</sub> MnO<sub>3</sub>/ YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-8</sub>/ LaO. <sub>7</sub>SrO.<sub>3</sub>mnO<sub>3</sub> epitaxial Trilayer films Minaxi Sharma, Arvind Kumar, K.K. Sharma, Ravi Kumar and R.J. Choudhary American Institute of Physics Proc. 1675, 030026 (2015)
  22. Journal of Materials Science: Materials In Electronics Synthesis and characterization of flower-like ZnO structures and their application in photo catalytic degradation of Rhodamine B dye. N. Rana, Subhash Chand and Arvind K. Gathania J Mater Sci: Mater Electron (2016) 27:2504-2510 DOI 10.1007/s10854-015-4051-7 Impact Factor 1.798 ISSN 0957-4522
  23. Green synthesis of zinc oxide nano –sized spherical particles using Terminalia chebula fruits extract for their photocatalytic applications N. Rana, Subhash Chand, and Arvind K. Gathania Int Nano Lett 6 (91-98)2016 DoI 10.1007/s 10854-015-4051-7 Impact Factor 1.798 ISSN 0957-4522
  24. Facrication and electrical, characterization of nickel/ p-Si Schottky diode at low Temperature Rajender Kumar, Subhash Chand Solid State Sciences 58(2016) 115- 121 10.1016 /j.solidstatesciences.2016.06.003 Impact Factor : 2.041 5- Year Impact Factor : 1.916 ISSN 1293-2558
  25. GAAMA INDUCED THERMOLUMINESCENCE AND COLOR CENTRES STUDY OF Dy DOPED LiF MICRO-CUBES, Satinder Kumar, Arvind K.Gathania, Ankush Vij, Ravi Kumar, Ceramics International , 42(13), 14511-14517, 2016. 26. THERMOLUMINES STUDY OF GAMMA IRRADIATED Cr DOPED LiF PHOSPHORS, Satinder Kumar,

Arvind K Gathania , Ankush Vij, Ravi kumar, Journal of Electronic Materials, 45(6), 2725-2731, 2016.

27. INVESTIGATION OF OPTICAL PROPERTIES OF YVO<sub>4</sub>-Er<sup>3+</sup> NANO –PHOSPHORS AT DIFFERENT Er<sup>3+</sup> CONCENTRATIONS AND CALCINATION TEMPERATURES, Shashi Thakur and Arvind K Gathania , J. Of Materials Science: Materials in Electronics, 27 (2) 1988-1993, 2016.
28. GRADUAL GROWTH PROCESS OF METALLO-DIELECTRIC COMPUTERS, Ankita Sharma, Naresh Dhiman , BP Singh, Arvind K. Gathania, Pramana –J Of Physics 86 147-155, 2016.
29. Effect of swift heavy ion irradiation on structural and magnetic properties of GdFe 1-xNi<sub>x</sub>O<sub>3</sub> (x≤0.2) thin films”, Pawanpreet Kaur, K.K. Sharma, Rabia Pandit, R.J. Choudhary, Ravi Kumar, Journal of Magnetism and Magnetic Material 398, 200-229 (2016).

**(i) Paper presented in conference/seminars/symposia.**

**=02 Nos.**

1. M. Sharma and V. Sharma, Tailoring Oxidation of Aluminum Nanoparticles Reinforced with Carbon Nanotubes, accepted in “60<sup>th</sup> DAE Solid State Physics Symposium (DAE-SSPS)” at Amity Univ. Noida (Dec. 2015). (Poster Presentation).
- 2 Subhash Chand. Optical and electrical characteristics of Al/n-ZnO/p-Si/Al heterojunctions, Symposium on Integration of Functional Oxides with Semiconductors in Materials Research Society Fall Meeting 2015, held at Hynes Convention Center, Boston USA, during Nov. 29-Dec. 4-2015.

**(iii) Paper accepted for publication: Nil**

**(iv) Patent: Nil**

**(c) Doctoral Programme:**

**06 Nos. ongoing**

| Sr. No. | Title   | Guide                    | Name of student    | Brief Report     |
|---------|---|--------------------------|--------------------|------------------|
| 1       | Fabrication and characterization of Metal Zinc Oxide Silicon and Metal Silicon Heterojunction | Dr. Subhash Chand        | Mr. Rajender Kumar | Thesis submitted |
| 2       | Development of three dimensional structure for photonics application                          | Dr. Arvind Kumar         | Mr. Shashi Kumar   | Thesis submitted |
| 3       | Band Gap Engineering of Zinc Oxide by Cadmium and Magnesium Doping using SO Gel Synthesis     |                          | Ms. Neha Rani Rana | In progress      |
| 4       | Effect of Swift Heavy Ion Irradiation on magneto transport properties of                      | Dr. Kuldeep Kumar Sharma | Mr. Arvind Kumar   |                  |

|   |  |                  |                    |                |
|---|--|------------------|--------------------|----------------|
|   | multilayer of colossal<br>magneto resistance<br>(CMR)/High-TC<br>Superconductors<br>(HTCS)/CMR Thin Films. |                  |                    |                |
| 5 | Tailoring the properties of<br>CNT reinforced Metal Matrix<br>Composites                                   | Dr. Vimal Sharma | Ms. Manjula Shamra | In<br>progress |
| 6 | To study the effect of Nickel<br>substitution at B site of<br>RCoO <sub>3</sub>                            | Dr. Rajesh Kumar | Mr. Ashok Kumar    | In<br>progress |

(d) **Ph. D. Degree awarded** : **03 Nos.**

(c) **Master Thesis completed** : **Nil**

### 3. **Equipment Acquired:**

| Sr.<br>No. | Name of Equipment         | Name of firm   | Cost           |
|------------|---------------------------|--|----------------|
| 1          | High Temperature Furnance | M/s Nashat& Company, Plot<br>No.1, Shibpur Industrial<br>Estate-1, 108<br>Lakshminarayantala Road,<br>Howrah-711 103   | ₹ 4,32,135-00  |
| 2          | Programmable C-V analyser | M/s Applied Real Tech<br>Systems Pvt. Ltd., 158-35/3,<br>2 <sup>nd</sup> Floor, 3 <sup>rd</sup> Main Road,<br>IndusterialTowanRajaji<br>Nagar, Bangalore-560 044 | ₹ 14,97,913-00 |

4. **Technical Association/Societies** : **NIL**

### 5. **DETAIL OF THE LABORATORIES:**

| Sr.<br>No. | Name of the Laboratory |
|------------|------------------------|
| 1.         | Physics UG Lab         |
| 2.         | Physics R&D Lab-I      |
| 3.         | Physics R&D Lab-II     |
| 4.         | Physics R&D Lab-III    |



## DEPARTMENT OF CHEMISTRY



### ACADEMIC STAFF

#### 1. HEAD: -DR. PAMITA AWASTHI

#### FACULTIES:-

| Professor       | Associate Professor | Assistant Professor |
|-----------------|---------------------|---------------------|
| Dr. A.S. Singha | 1) Dr.PamitaAwasthi | 1) Dr.RajKaushal    |
|                 | 2) Dr.Bharti Gaur   | 2) Dr. K.S. Ghosh   |
|                 |                     | 3) Dr. JaibirKherb  |

#### 2. SEMINAR, SYMPOSIA, SUMMER SCHOOL, WINTER SCHOOL, SHORT TERM COURSES

| Sponsoring Agency | Name of the Coordinator | Title of the seminar/symposia etc. | Duration | Venue |
|-------------------|-------------------------|------------------------------------|----------|-------|
|                   | -----NIL-----           |                                    |          |       |

### 3 RESEARCH

#### Research scheme

| Title of the scheme  | Sponsored by                 | Assistance received(Rs.) in lakh | Investigator        | Brief Report  |
|--|------------------------------|----------------------------------|---------------------|---|
| Inhibition of the fibrillation of $\beta$ and $\gamma$ -crystallins: An Alternate way against cataract | SERB-DST, Govt. of India     | 24 lakhs                         | Dr. Kalyan S. Ghosh | Recombinant gamma crystallins had been prepared and their aggregation and fibrillation studies have been done. Small molecule inhibitors have been developed.   |
| Development of Multifunctional Bio-Nanomaterial Media for Treatment of Water and Wastewater            | R & D project under TEQIP-II | 15 lakhs                         |                     | Synthesis and characterization of ZnO nanoparticles and exploring their efficiency in removal of pollutants from wastewater. These nanoparticles had also shown complementary antimicrobial activities. |

#### 4) Research Publication

- Synthesis, Characterization, Biological Evaluation and Docking Study of Heterocyclic-Based Synthetic Sulfonamides as Potential Pesticide Against *G. mellonella*** Priyanka Sharma<sup>1</sup> & Sunil Thakur<sup>2</sup> & Pamita Awasthi <sup>1\*</sup> **ApplBiochem Biotechnol 2015 DOI 10.1007/s12010-015-1562-x # Springer Science**
- Comparative *in silico* and *in vitro* Study of N-(1-Methyl-2-Oxo-2-N-Methyl Anilino-Ethyl) Benzene Sulfonamide and Its Analogues as an Anticancer Agent** Pamita Awasthi, Kirna, Shilpa Dogra, Manu Vatsal, Ritu Barthwal **International Journal of**

- Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering Vol:9, No:3, 2015 World Academy of Science, Engineering and Technology**
2. **In silico and bio assay of juvenile hormone analogs as an insect growth regulator against *Galleria mellonella* (wax moth) – Part I** PriyankaSharmaa, Sunil Thakurb andPamitaAwasthia\* a Department of Chemistry, National Institute of Technology, Hamirpur, HP 177005, India; b Institute of Environmental Science and Biotechnology, Hamirpur, HP 177001, India Accepted at **Journal of Biomolecular Structure and Dynamics**, 2015 <http://dx.doi.org/10.1080/07391102.2015.1056549> Taylor and Francis
  3. **Comparative In Vitro Binding Studies of  $TiCl_2(dpme)_2$ ,  $Ti(ada)_2(bzac)_2$ , and  $TiCl_2(bzac)(bpme)$  Titanium Complexes with Calf-Thymus DNA- Pamita Awasthi,1** Nitesh Kumar,1 Raj Kaushal,1 Mohan Kumar,2 and Shrikant Kukreti2 1Department of Chemistry, National Institute of Technology, Hamirpur, Himachal Pradesh 177005, India 2Department of Chemistry North Campus, University of Delhi, Delhi 110007, India **Biochemistry Research International**, Volume 2015 (2015), Article ID 836928, 7 pages <http://dx.doi.org/10.1155/2015/836928>
  5. Kali Dass, S. R. Chauhan, Bharti Gaur, “Study on the Effects of Nano Particulates of Sic,  $Al_2O_3$  and Zno on the Mechanical and Tribological Performance of Epoxy Based Nanocomposites,” online first 09 May 2016, DOI: 10.1080/02726351.2016.1184730.
  6. VaishnavKiran, **Bharti Gaur**, "*Hydroquinone based sulfonated poly (arylene ether sulfone) copolymer as proton exchange membrane for fuel cell applications*" **eXPRESS Polymer Letters**, 2015, **9**(12), 1053-1067; DOI: 10.3144/expresspolymlett.2015.95
  7. Shiprajaswal, **Bharti Gaur**: *Structure-property correlation study of bio-based multifunctional vinyl ester resin in presence of methacrylated lignin model compounds.* **Polymer Science Series B** 07/2015; DOI: 10.1134/S1560090415050048.
  8. ShipraJaswal, **Bharti Gaur**: *Green methacrylated lignin model compounds as reactive monomers with low VOC emission for thermosetting resins.* **Green Processing and Synthesis** 06/2015; **4**(3):191–202. DOI: 10.1515/gps-2015-0005.
  9. VaishnavKiran, **Bharti Gaur**, *Curing and Thermal Behavior of Epoxy Resins of (Hexafluoro - Bisphenol –A AndBisphenol-A),* **PolímerosCiência e Tecnologia**, **26**(1), 2016. DOI: 10.1590/0104-1428.2041
  10. ShipraJaswal, **Bharti Gaur**: *Morphological, Mechanical and Physio-chemical Performance of ortho-Cresol Epoxy Novolac Based Vinyl Ester Resin.* **Polish Journal of Chemical Technology** 09/2015; **17**(3):1-7. DOI:10.1515/pjct-2015-0041
  11. Kali Dass, SR Chauhan, **Bharti Gaur**: *Study on the effects of nano-aluminum-oxide particulates on mechanical and tribological characteristics of chopped carbon fiber reinforced epoxy composites.* **Proceedings of the Institution of Mechanical Engineers Part L Journal of Materials Design and Applications** 08/2015; DOI:10.1177/1464420715598798
  12. Raj Kaushal, SheetalThakur andKiranNehra, *ct-DNA Binding and Anti-bacterial*

Activity of Octahedral Titanium (IV) Heteroleptic (Benzoylacetone and Hydroxamic Acids) Complexes, **International journal of Medicinal Chemistry**, Volume 2016 (2016), Article ID 2361214, 11 pages  
<http://dx.doi.org/10.1155/2016/2361214>

- 13 Sheetal, KiranNehra, Rajeev Kaushal, Saroj Arora, Davinder Kaur, Raj Kaushal Octahedral Titanium (IV) Complexes with Five Novel Hydroximates Ligands: Synthesis, Spectroscopic Characterization And In Vitro Activities On IMR-32 And CHO Cell Line And Ten Bacterial Strains, **Russian Journal of General Chemistry**, 2016, vol 86, issue 1, 154–160.
- 14 Sheetal and Raj Kaushal, *In vitro* Anticancer and Antibacterial Activities of Octahedral Ruthenium(III) Complexes with Hydroxamic Acids. Synthesis and Spectroscopic Characterization, **Russian journal of General Chemistry**, 2016, vol 86, issue 2.
- 15 PamitaAwasthi, Nitesh Kumar, Raj Kaushal, Mohan Kumar and ShrikantKukreti, Comparative *In Vitro* Binding Studies of  $TiCl_2(dpme)_2$ ,  $Ti(ada)_2(bzac)_2$ , and  $TiCl_2(bzac)(bpme)$  Titanium Complexes with Calf-Thymus DNA, **Biochemistry Research International**, Volume 2015, Article ID 836928, 7 pages
16. Sivaramakrishnan, V., Ilamathi, M., **Ghosh, K. S.**, Sathish, S., Gowda, T. V., Vishwanath, B. S., Rangappa, K. S., and Dhananjaya, B. L. (2016) Virtual analysis of structurally diverse synthetic analogs as inhibitors of snake venom secretory phospholipase A<sub>2</sub>. **J. Mol. Recognit.**, **29**, 22–32.
17. Sharma, V., Chauhan, P. and **Ghosh, K. S.** (2015) Prediction of aggregation sites in human eye lens  $\gamma$ -crystallins: implications in cataract, **J. Adv. Bioinfo. Appl. Res.**, **6**, 45-51.
18. Thakur, R., Das, A., Sharma, V., Adhikari, C., Ghosh, K.S. and Chakraborty, A. (2015) Interaction of different prototropic species of an anticancer drug Ellipticine with HSA and IgG proteins: multispectroscopic and molecular modeling studies, **Phy. Chem. Chem. Phys.**, **17**, 16937-16946.
19. Sharma, A., **Ghosh, K. S.**, Singh, B. P. and Gathania, A. K. (2015) Spectroscopic investigation of interaction between bovine gamma globulin and gold nanoparticles, **Methods Appl. Fluoresc.**, **3**, 025002.

#### 5. Doctoral Programme:-

06 ongoing and 03 Submitted

#### Ph.D Degree Awarded:-

05 Nos

#### Doctoral Programme:

| Sr. | Title | Guide | Name of the student | Brief Report |
|-----|-------|-------|---------------------|--------------|
|     |       |       |                     |              |

| No |  |                     |                      |                  |
|----|--|---------------------|----------------------|------------------|
| 1  | Synthesis, characterization and performance evaluation of proton exchange membrane for MFC.                                    | Dr. Bharti Gaur, AP | Ms. VaishnavKiran    | Thesis Submitted |
| 2  | Synthesis and characterization of a new series of hyper branched vinyl ester resin based on rosin acid.                        | Dr. Bharti Gaur, AP | Ms. ShipraJaswal     | Thesis Submitted |
| 3  | Synthesis, characterization and biological evaluation of Ru (III) & TI (IV) metal complexes with biologically active ligands.  | Dr. Raj Kaushal     | Ms. Sheetal          | Thesis Submitted |
| 4. | “Synthesis, characterization biological and computational study of Anticancer drugs”   | Dr. PamitaAwasthi,  | Ms. Manu Vatsal      | In Progress      |
| 5  | “Synthesis, Characterization and Performance Evaluation of Poly Arylene Ether Ketone”  | Dr. Bharti Gaur     | Ms. Swati Awasthi    | In Progress      |
| 6. | “Inhibition of Aggregation of Crystallin Proteins By Synthetic And Natural Compounds: Implication In Cataract”                 | Dr. K.S. Ghosh      | Ms. Priyanka Chauhan | In Progress      |
| 7. | “Protein Aggregation and Its Inhibition”   | Dr. K.S. Ghosh      | Ms. Vandna Sharma    | In Progress      |
| 8. | “Synthesis, Characterization, Bioassay and Computational Studies of Sulfonamide analogues having multifunctional Applications. | Dr. PamitaAwasthi   | Ms. Kirna            | In Progress      |
| 9  | “Metal-Indole Complexes as Potential Anticancer Agents”  | Dr. Raj Kaushal     | Ms. Archana Thakur   | In Progress      |

#### 6 Popular Lectures by outside experts:

| Sr. No.       | Date | Speaker | Topic |
|---------------|------|---------|-------|
| -----Nil----- |      |         |       |

**7 EQUIPMENTS ACQUIRED:**

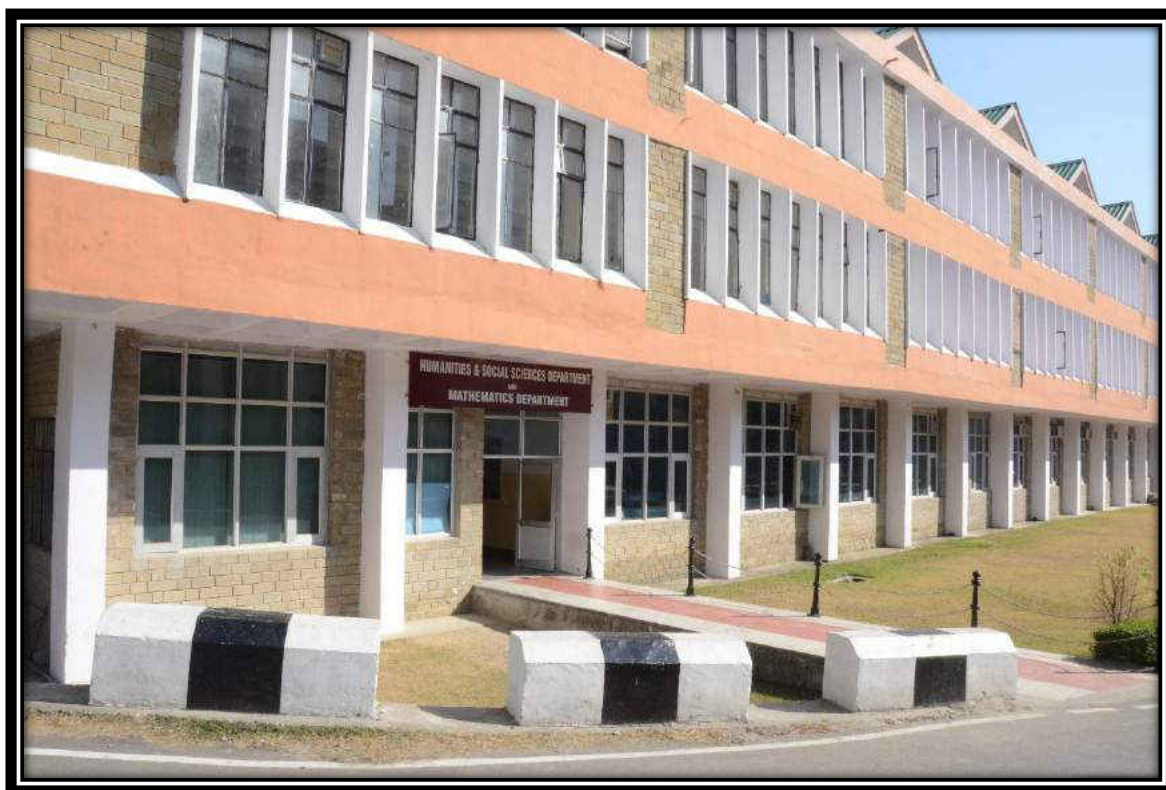
| Sr.No. | Name of Equipment  | Qty       | Name of manufacturer/Supplier  | Cost             |
|--------|--|-----------|--|------------------|
| 1.     | <b>Netgear Pro SAFE 24-Port Gigabit Smart Switch with PoE and 4SFP ports GS728TP</b> | <b>01</b> | M/s Global Computers Near PNB ATM Anu Hamirpur (H.P.)-177005 against Supply Order No. NIT/HMR/Chemistry/147 dated 07.06.2016   | <b>25,800.00</b> |
| 2.     | <b>Digital Conductivity /TDS Meter</b>   | <b>02</b> | M/S National Sales Corporation Radha Krishna Market, SungalPalampur District Kangra (H.P.)-176061 against Supply Order No. NIT/HMR/SPC/Chemistry/38/43/2015/1967-69 dated 31.12.2015 | <b>11,466.00</b> |
| 3.     | <b>Microprocessor pH System</b>  | <b>02</b> | M/S Alfa- Bio Life Sciences V.P.O. KotlaKalan Distt. & Tehsil Una. Himachal Pradesh-174303 against Supply Order No. NIT/HMR/SPC/Chemistry/38/43/2015/1964-66 dated 31.12.2015        | <b>13,309.00</b> |

**1. DETAIL OF THE LABORATORIES:**

| Sr.No. | Name of the Laboratory                         |
|--------|--|
| 1.     | Instrumentation Laboratory                     |
| 2.     | Under Graduate (UG) Laboratory                 |
| 3.     | Research & Development Laboratory R&D Lab (PG) |



## DEPARTMENT OF MATHEMATICS



### 1. ACADEMIC STAFF

**HEAD-** Dr. Sunil  
Ph. D

### 2. FACULTIES

| Professor  | Associate Professor             | Assistant Professor           | Faculty/Lecturer (on contract) |
|--|---------------------------------|-------------------------------|--------------------------------|
| Dr. J.N. Sharma<br>Ph. D.(expired on 13/09/2015) | Dr. Ramesh Kumar Vats<br>Ph. D. | Dr. Pawan Kumar Sharma Ph. D. | Dr. Rajesh Kumar Sharma, Ph.D. |
|  |                                 |                               | Dr. Abhishek Singh, Ph.D.      |
|  |                                 |                               | Dr. Talari Ganesh, Ph.D.       |
| Dr. Y. D. Shrma<br>Ph. D.                        |                                 | Dr. Suket<br>Ph. D.           | Dr. Biswambhar Rakshit, Ph.D.  |
| Dr. Sunil<br>Ph. D.                              |                                 |                               |                                |



**3. RESEARCH:****(a) Participated by faculty Member:**

| Name of staff         | Programme   | Organization                       | Duration                     | Venue                              |
|-----------------------|---|------------------------------------|------------------------------|------------------------------------|
| Dr. Ramesh Kumar Vats | International Conference on 'Analysis & Applications' | Aligarh Muslim University, Aligarh | 03 days (19-21 eember, 2015) | Aligarh Muslim University, Aligarh |

**(b) Research Scheme****(I) Research Publication: 04 Nos.**

- 1 T. Vishnu Vardhan, A. Lavanya and T. Ganesh (2015), Functional relationship between Brier score and Area Under the ROC curve in the context of skewed distributions, International Journal of Scientific and Innovative Mathematical Research, Vol.3, Special Issue 3, pp 935-939.
- 2 Rajesh Sharma, AnuarIshak, Ioan Pop, Stagnation point flow of a Micropolar flyover a stretching/shrinking sheet with second-order velocity slip, Journal of Aerospace Engineering, 2016, 10.1061/(ASCE)/AS. 1943-5525.0000616, 0416025. (SCI Journal ISSN:0893-1321, Imact factor 0.839)
- 3 Abhishek Singh, P. Arokiasamy, J. Pradhan, K. Jain, S.K. Patel (2016), Sibling a family level clustering of underweight children in Northern India accepted in Journal Biosocial Science (Cambridge Journals, EISSN: 1469-7599 Impact Factor 1.26)
- 4 B. Dayakar Rao, Mohamed Anis, K. Kalpana, K.V. Sunooj, J.V. Patil, T. Ganesh (2016), Influence of milling methods and particle size on hydration properties of sorghum flour and quality of sorghum biscuits, LWT-Food Science and Technology, Vol. 67, pp 8-13, doi:10.1016/j.lwt.2015.11.033

**(c) Doctoral Programme: 06 Nos.**

| Sr. No. | Title  | Name of Guide     | Name of student    | Brief Report     |
|---------|--|-------------------|--------------------|------------------|
| 1       | Some problems of Reflection and Transmission of Plane waves at solid-liquid interface. | Prof. J.N. Sharma | Ms. Rajbir Kaur    | Theses submitted |
| 2       | Mathematical Analysis of Vibration in Thermo elastic Thin Beam                         | Prof. J.N. Sharma | Ms. Ramandeep Kaur | Theses submitted |

|   |   |                 |                            |                     |
|---|---|-----------------|----------------------------|---------------------|
|   | Structures  |                 |                            |                     |
| 3 | Existence of Fixed Points Mappings in Metric, Menger and Fuzzy Metric Spaces        | Dr. R.K. Vats   | Ms. Manju Grewal           | In progress         |
| 4 | Exact analysis thermo elastic functionally graded cylinders under dynamics pressure | Dr. Pawan Kumar | Mr. Krishna Chandra Mishra | In progress         |
| 5 | Applied Mathematics   | Dr. Y.D. Sharma | Ms. Shivani                | Admitted in 2015-16 |
| 6 | Fixed Point Theory  | Dr. R.K. Vats   | Mr. Sachin Kumar           | Admitted in 2015-16 |

#### 4 DETAIL OF THE LABORATORIES:

| Sr. No. | Name of the Laboratory |
|---------|------------------------|
| 1.      | Computation Lab        |

## DEPARTMENT OF CHEMICAL ENGINEERING



### 1 ACADEMIC STAFF

**Head:** Dr. PamitaAwasthi  
Ph. D.

**Faculties:**

| Professor | Associate Professor | Assistant Professor | Lecturer(On Contract) |
|-----------|---------------------|---------------------|-----------------------|
| --        | 01                  | 04                  | Dr. Amit Rai          |
|           |                     |                     | Dr. Vijay Singh       |
|           |                     |                     | Dr. S.R. Panda        |
|           |                     |                     | Er. Arijit Das        |

### 2 Distinction Achieved : 02 Nos.

(i) By Students:

- 1 Mr. Nirdosh Gupta, Roll No. 13715 to undergo summer internship from University of New Brunswick-Fredericton, Canada from 16.05.2016 to 29.07.2016.
- 2 Ms. Tanya Agarwal, Roll No. 13747 to undergo summer internship from Fraunhofer Institute for Solar Energy System ISE, Germany from 29.05.2016 to 02.08.2016.

(ii) By Faculty Members : Nil

**3 Seminar, Symposia, Summer School, Winter School, Short Term Course:**

| Name of the staff member | Course/Seminar                           | Organization           | Duration                    | Venue         |
|--------------------------|--|------------------------|-----------------------------|---------------|
| Dr. LeelaManohar         | Industry Institute Interaction Programme | NIT Jalandhar (Punjab) | 02 Days (05-06 March, 2016) | NIT Jalandhar |
| Dr. Radheshyam           |  |                        |                             |               |

**4 Research Publications:****(i) Papers published by Faculties: 02 Nos.**

- 1 Amit Rai, BikashMohanty, Ravindra Bhargava, "Supercritical Extraction of Sunflower Oil: A CCD for Extraction variables", Food Chemistry 192 (2016) 647-659, (Impact Factor: 3.259)
- 2 Amit Rail, BikashMohanty, Ravindra Bhargava, "Modeling and Response Surface Analysis of Supercritical Extraction of Watermelon Seed Oil using Carbon Dioxide", Separation and Purification Technology 141 (2015) 354-365.

**5 Popular Lectures deliveredby outside experts:**

| Sr. No. | Date       | Speaker  | Topic                 |
|---------|------------|--|-----------------------|
| 1       | 03.09.2015 | Prof. M.K. Jha<br>Department of Chemical Engineering, NIT, Jalandhar | Petroleum Engineering |

**6 EQUIPMENT ACQUIRED:**

| Sr. No. | Name of equipment                             | Qty    | Name of manufacturer/ Supplier                        | Cost        |
|---------|---|--------|---|-------------|
| 1       | Vibration Screen                              | 01 No. | M/s R.K. Scientific &Engg. Works Hardwar Road Roorkee | ₹ 40,425-00 |
| 2       | Trammel Variable Speed                        | 01 No. | M/s R.K. Scientific &Engg. Works Hardwar Road Roorkee | ₹ 50,190-00 |
| 3       | Pressure Drop                                 | 01 No. | M/s R.K. Scientific &Engg. Works Hardwar Road Roorkee | ₹ 50,505-00 |
| 4       | Froth Flotation                               | 01 No. | M/s R.K. Scientific &Engg. Works Hardwar Road Roorkee | ₹ 60,060-00 |
| 5       | Experimental Water Cooling Tower              | 01 No. | M/s Creative Lab AmbalaCantt., Haryana                | ₹ 44,205-00 |
| 6       | Mass Transfer with/ without chemical reaction | 01 No. | M/s Creative Lab AmbalaCantt., Haryana                | ₹ 44,205-00 |

|    |  |         |  |               |
|----|--|---------|--|---------------|
| 7  | Wetted Wall Column                         | 01 No.  | M/s Creative Lab<br>AmbalaCantt., Haryana      | ₹ 57,887-00   |
| 8  | Sieve Plate<br>Distillation                | 01 No.  | M/s Creative Lab<br>AmbalaCantt., Haryana      | ₹ 1,05,250-00 |
| 9  | Packed Bed<br>Distillation Column          | 01 No.  | M/s Creative Lab<br>AmbalaCantt., Haryana      | ₹ 84,200-00   |
| 10 | Control Valve                              | 01 No.  | M/s Creative Lab<br>AmbalaCantt., Haryana      | ₹ 84,200-00   |
| 11 | Interacting and non-<br>integrating system | 01 No.  | M/s Creative Lab<br>AmbalaCantt., Haryana      | ₹ 42,100-00   |
| 12 | RTD Studies Plug<br>Flow                   | 01 No.  | M/s Creative Lab<br>AmbalaCantt., Haryana      | ₹ 39,995-00   |
| 13 | Packet Bed Reactor                         | 01 No.  | M/s Creative Lab<br>AmbalaCantt., Haryana      | ₹ 50,520-00   |
| 14 | Isothermal Plug Flow                       | 01 No.  | M/s Creative Lab<br>AmbalaCantt., Haryana      | ₹ 42,100-00   |
| 15 | Isothermal<br>Continuously Stirred         | 01 No.  | M/s Creative Lab<br>AmbalaCantt., Haryana      | ₹ 50,520-00   |
| 16 | Vapour Liquid                              | 01 No.  | M/s Mass International<br>AmbalaCantt, Haryana | ₹ 47,573-00   |
| 17 | Vapour in Air<br>Diffusion                 | 01 No.  | M/s Mass International<br>AmbalaCantt, Haryana | ₹ 35,259-00   |
| 18 | RTD Studies a Packed<br>Bed Reactor        | 01 No.  | M/s Creative Lab<br>AmbalaCantt., Haryana      | ₹ 42,837-00   |
| 19 | Dead Weight Pressure<br>Gauge              | 01 No.  | M/s Mass International<br>AmbalaCantt, Haryana | ₹ 23,892-00   |
| 20 | Level Control Trainer                      | 01 No.  | M/s SinghsonsAmbalaCantt.                      | ₹ 1,45,000-00 |
| 21 | Water Cooler with<br>Filters               | 02 Nos. | M/s Vashisht Electronics,<br>Hamirpur (HP)     | ₹ 1,13,800-00 |
| 22 | Net gear Pro Safe<br>(Internet Switch)     | 01 No.  | M/s Himcom Hamirpur (HP)                       | ₹ 22,500-00   |

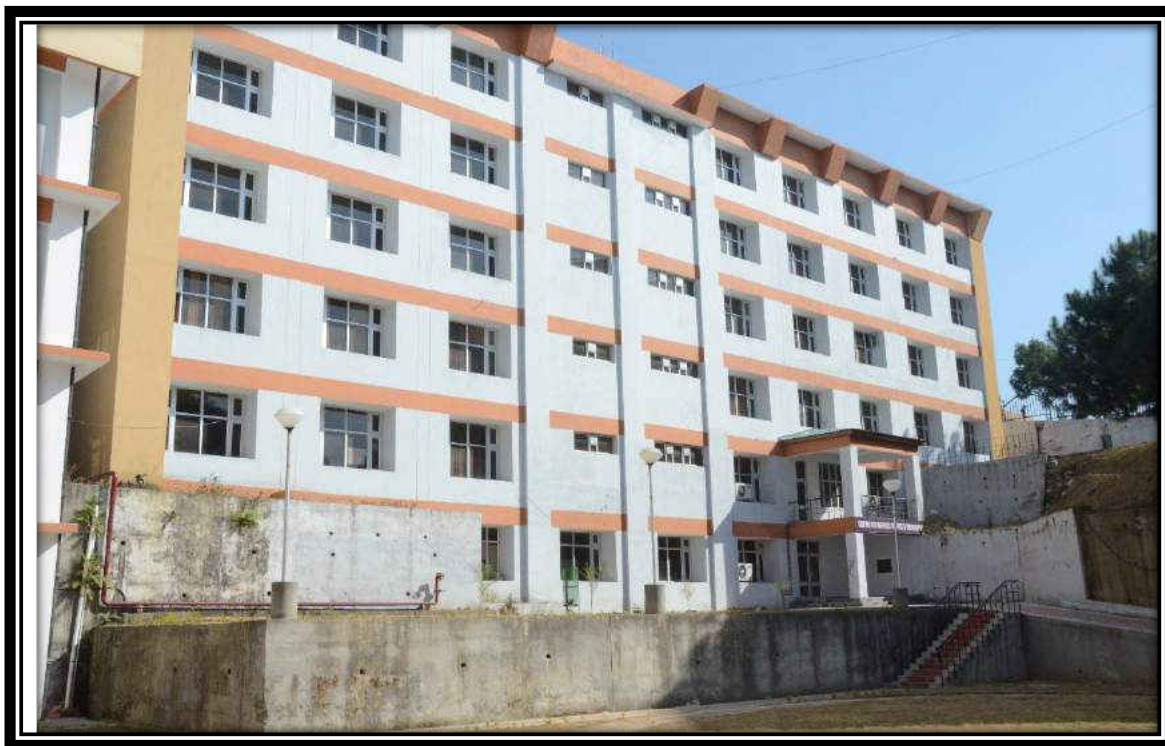
## 7. TECHNICAL ASSOCIATION/SOCIETIES:

### Membership of Indian Institute of Chemical Engineering (Student Chapter) in 2015-2016.

|    |   |
|----|---|
| 1. | Fluid Mechanics Laboratory                |
| 2. | Heat Transfer Laboratory                  |
| 3. | Mechanical Unit Operation                 |
| 4. | Modelling and Simulation Laboratory       |
| 5. | Mass Transfer Laboratory                  |
| 6. | Process Dynamic Control Laboratory        |
| 7. | Chemical Technology Laboratory            |
| 8. | Energy Technology Laboratory              |
| 9. | Chemical Reaction Engineering Laboratory. |



## **CENTRE FOR EXCELENC IN MATERIAL SCIENCE & ENGINEERING**



### 1. **ACADEMIC STAFF**

**HEAD** Dr. Vishal Singh  
Ph.D

#### **FACULTIES:**

| <b>Professor</b>                 | <b>Associate Professor</b> | <b>Assistant Professor</b> |
|----------------------------------|----------------------------|----------------------------|
| Dr. Ravi Kumar Ph. D<br>(On EOL) | Dr. Vishal Singh Ph. D     | Dr. Vikram Verma           |

### 2. **RESEARCH**

#### **(a) Research Publication:-**

- (i) **Paper Published by Faculties** :- Nil  
(ii) **Paper presented in Conference/Seminar/Symposia:-**

1. Sunil Kumar and Vishal Singh, "Mechanical and Tribological behavior of Epoxy/MWCNT Nanocomposites" paper presented at 3<sup>rd</sup> National Conference on Nanoscience and Instrumentation Technology (NCNIT-2015) at Department of Physics, National Institute of Technology, Kurukshetra from June 06-07, 2016.
2. EzajQamar Vishal Singh, "Tribological and Mechanical Studies of Graphite Powder filled ABS Polymer Composites Prepared by using Twin Screw Extruder" paper presented at 3<sup>rd</sup> National Conference on Nano science and Instrumentation

Technology (NCNIT-2015) at Department of Physics, NIT, Kruksheeta from June, 06-07, 2015.

(b) **Master Thesis completed** : 04 Nos. (Thesis to be submitted very shortly during June/July, 2016)

| Sr. No. | Title   | Guide            | Name of the student | Brief Report |
|---------|---|------------------|---------------------|--------------|
| 1       | Tribological behavior of Tio2/epoxy composites.   | Dr. Vishal Singh | Mr. Kuldeep Sharma  | -            |
| 2       | Mechanical & Tribological behavior of Nano clay/Glass Fiber & epoxy composites                |                  | Mr. Saurabh Manral  | -            |
| 3       | To study Electrical and Electronics properties of Polyaniline/ Nylon-6 composites             |                  | Ms. Surbhi Singh    | -            |
| 4       | To study the effect of Martempering on Mechanical & Micro structural properties of EN24 steel |                  | Mr. Vinay Sharma    | -            |

(c) **Doctoral Programme:** 05 Nos

| Sr. No. | Title                                | Guide   | Name of the student     | Brief Report |
|---------|--------------------------------------|---|-------------------------|--------------|
| 1       | Ferroelectric Nano-Polymer Composite | Dr. Subhash Chand Deptt. of Physics           | Mr. Sumit Bhardwaj      | -            |
| 2       | Nano-Phosphors                       | Dr. Arvind Kumar Deptt. of Physics            | Mr. Satinder Kumar      | -            |
| 3       | Multiferroic Materials               | Dr. Kuldeep Kumar Sharma<br>Deptt. of Physics | Mr. Joginder Pal Sharma | -            |



|   |  |                  |                    |   |
|---|--|------------------|--------------------|---|
| 4 | Effect of Cryogenic Treatment on Mech. Metallurgical properties of Tool & Die Steels | Dr. Vishal Singh | Mr. Sanjeev Katoch | - |
| 5 | Nano Clay/ Polymer Composites  | Dr. Vishal Singh | Mr. Sudhir Saralch | - |

**3. Popular lectures delivered by outside experts:**

| Sr. No. | Date       | Speaker  | Topic   |
|---------|------------|--|---|
| 1       | 16.11.2015 | Dr. Navin Chand, Scientist-G, Advance Material and Process Research Institute (AMPRI) Bhopal, Habibganj, Naka, Bhopal. | Some New Polymer Based Composite Materials Having Nano-Particles. |

**4. DETAIL OF THE LABORATORIES:**

| Sr. No. | Name of the Laboratory           |
|---------|----------------------------------|
| 1.      | Polymer Composites Lab           |
| 2.      | XRD Lab                          |
| 3.      | FESEM / Nano Indentor Lab        |
| 4.      | PLD Lab                          |
| 5.      | PL/Micro-Raman Lab               |
| 6.      | SpectroscopyLab                  |
| 7.      | Nano Tech. Lab                   |
| 8.      | UG Lab (Material Science &Engg.) |

## CENTRE FOR ENERGY AND ENVIRONMENTAL ENGINEERING



### 1. ACADEMIC STAFF

(a) **HEAD:** Dr. Surjit Singh Katoch, Associate Professor

#### (b) FACULTIES:

| Professor         | Associate Professor | Assistant Professor             |
|-------------------|---------------------|---------------------------------|
| Dr. S. S. Chandel | Dr. S. S. Katoch    | Dr. Mamta Awasthi               |
| Dr. N. S. Thakur  |                     | Dr. Sunanda Sinha (on contract) |

### 2. DISTINCTION ACHIVED:

(a) **By Student: 48**

| (2015-2016)          | M.Tech (Energy Technology) | M.Tech (Environmental Engineering) |
|----------------------|----------------------------|------------------------------------|
| 1 <sup>st</sup> Year | 14                         | 13                                 |
| 2 <sup>nd</sup> Year | 11                         | 10                                 |

(b) **By Faculty Member: 04**

### 3. SEMINAR, SYMPOSIA, SUMMER SCHOOL, WINTER SCHOOL, SHORT TERM COURSE

(a) Conducted in the Department: NIL

(b) Participated by Faculty Members:

| Name of Staff                | Course/Seminar  | Organization                                  | Duration                   | Venue   |
|------------------------------|---|---|----------------------------|---|
| Dr.S.S.Katoch<br>Asso. Prof. | 3 <sup>rd</sup> World summit on Accreditation   | National Board of Accreditation               | March 18 -20,2016          | The Leela Ambience Hotel Gurgaon (Delhi NCR)  |
| Dr.S.S.Katoch<br>Asso. Prof. | Characterizing the uncertainties in climate change impacts assessment for water resources   | NIT Hamirpur (HP)                             | February22-26 ,2016        | NIT Hamirpur (HP)                             |
| Dr.S.S.Katoch<br>Asso. Prof. | International Conference on Civil and Environmental Engineering   | IRAJ Research Forum, Goa                      | February 28,2016           | IRAJ Research Forum, Goa                      |
| Dr.S.S.Katoch<br>Asso. Prof. | International Conference on Advances in “Electrical ,Power Control ,Electronics Engineering and Applied communication Technology “                        | Jawaharlal Nehru University (JNU) New Delhi   | March 14-15,2015           | Jawaharlal Nehru University (JNU) New Delhi   |
| Dr.S.S.Katoch<br>Asso. Prof. | International Workshop on Mitigating Climate Change Impacts(MICCI 2015)   | Department of Civil Engineering NIT, Hamirpur | June 5 <sup>th</sup> ,2015 | Department of Civil Engineering NIT, Hamirpur |
| Dr.S.S.Katoch<br>Asso. Prof. | Unesco Regional Capacity Development workshop on “Ensuring Water Security in Changing Environment Scenario for Water Professionals of Cluster Countries ” | IIT Bombay ,Mumbai ,India                     | November,26-27,2015        | IIT Bombay ,Mumbai ,India                     |

### 4. RESEARCH:

(a)Research Scheme: NIL

(b) Research Publications:

(i)PAPER PUBLISHED BY FACULTIES: 20 Nos

Paper Published in International Journals:

| S. No | Journal Name  | Title of paper   | Year in which publish | Author                 | Journal Pages |
|-------|---|--|-----------------------|------------------------|---------------|
| 1.    | International Journal of Scientifics and Engineering Research | Annual Pattern of Biomedical Waste generation and seasonal variation | 2015                  | Thakur Y,<br>Katoch SS | 1373-1376     |

|    |   |  |      |  |            |
|----|---|--|------|--|------------|
| 2. | Renewable Sustainable Energy Reviews            | Resource potential and development of small hydro power projects in Jammu and Kashmir in the western Himalayan region: India.  | 2015 | Ameesh Kumar Sharma, N.S Thakur                    | 1354-1368. |
| 3. | Renewable Energy                                | Sustainability suspense of small hydropower projects :A study from western Himyalan region of India  | 2015 | Kumar D ,Katoch S.S.                               | 220-233    |
| 4. | Renewable Energy                                | Small Hydropower development in western Himylayas :Strategy for fast implementation  | 2015 | Kumar D, Katoch S.S.                               | 571-578    |
| 5. | J.Mount Sc.                                     | Sustainability assessment and ranking of run of the river (RoR) hydropower projects using analytical Hierarchy Process: A study from the western Himylayas region of India | 2015 | Kumar D, Katoch S.S.                               | 1315-1333  |
| 6. | <i>Renewable and Sustainable Energy Reviews</i> | Application of rapid miner in ANN based prediction of solar radiation for assessment of solar energy resource potential of 76 sites in Northwestern India                  | 2015 | Yadav, Amit Kumar, Hasmat Malik, and S. S. Chandel | 1093-1106  |
| 7. | <i>Energy Conversion and Management</i>         | Prospects of solar photovoltaic–micro-wind based hybrid power systems in western Himalayan state of Himachal Pradesh in India  | 2015 | Sinha, Sunanda, and S. S. Chandel                  | 1340-1351. |
| 8. | <i>Renewable and Sustainable Energy Reviews</i> | Review of recent trends in optimization techniques for solar photovoltaic–wind based hybrid energy systems   | 2015 | Sinha, Sunanda, and S. S. Chandel                  | 755-769.   |
| 9. | <i>Renewable Energy</i>                         | Solar energy potential assessment of western Himalayan Indian state of Himachal Pradesh using  | 2015 | Yadav, Amit Kumar, and S. S. Chandel               | 675-693    |

|     |   |  |      |  |           |
|-----|---|--|------|--|-----------|
|     |   | J48 algorithm of WEKA in ANN based prediction model  |      |  |           |
| 10. | <i>Renewable Energy</i>                         | Degradation analysis of 28 year field exposed mono-c-Si photovoltaic modules of a direct coupled solar water pumping system in western Himalayan region of India | 2015 | Chandel, S. S., M. NagarajuNaik, Vikrant Sharma, and Rahul Chandel | 193-202.  |
| 11. | <i>Renewable Energy</i>                         | Wind speed prediction in the mountainous region of India using an artificial neural network model.   | 2015 | Ramasamy, P., S. S. Chandel, and Amit Kumar Yadav                  | 338-347.  |
| 12. | <i>Energy and Buildings</i>                     | Performance assessment of a passive solar building for thermal comfort and energy saving in a hilly terrain of India   | 2015 | Chandel, S. S., and Amitava Sarkar                                 | 873-885   |
| 13. | <i>Renewable and Sustainable Energy Reviews</i> | Review of solar photovoltaic water pumping system technology for irrigation and community drinking water supplies  | 2015 | Chandel, S. S., M. NagarajuNaik, and Rahul Chandel                 | 1084-1099 |
| 14. | <i>Renewable Energy</i>                         | Environmental Sustainability of run of river hydropower projects : A case study from western Himalayan region of India   | 2016 | Kumar D, Katoch S.S.   | 599-607   |
| 15. | <i>Renewable and Sustainable Energy Reviews</i> | Review of energy efficient features in vernacular architecture for improving indoor thermal comfort conditions   | 2016 | Chandel, S. S., Vandna Sharma, and Bhanu M. Marwaha                | 459-477   |
| 16. | <i>Solar Energy</i>                             | A novel study for determining early life degradation of multi-crystalline-silicon photovoltaic modules   | 2016 | Sharma, Vikrant, and S. S. Chandel                                 | 32-44     |

|     |   |  |      |   |           |
|-----|---|--|------|---|-----------|
|     |   | observed in western Himalayan Indian climatic conditions   |      |   |           |
| 17. | <i>Energy Conversion and Management</i>         | Analysis of fixed tilt and sun tracking photovoltaic-micro wind based hybrid power systems                       | 2016 | Sinha, Sunanda, and S. S. Chandel                                   | 265-275   |
| 18. | <i>Renewable and Sustainable Energy Reviews</i> | Review of energy efficiency initiatives and regulations for residential buildings in India                       | 2016 | Chandel, S. S., Aniket Sharma, and Bhanu M. Marwaha                 | 1443-1458 |
| 19. | <i>Renewable and Sustainable Energy Reviews</i> | Overview of the initiatives in renewable energy sector under the national action plan on climate change in India | 2016 | Chandel, S. S., Rajnish Shrivastva, Vikrant Sharma, and P. Ramasamy | 866-873   |

(ii) **PAPER PRESENTED IN CONFERENCE/SEMINAR/SYMPOSIUM:****International / National Conferences**

1. Ameesh Kumar Sharma, Dr. N. S. Thakur, Hydro Power Energy For Sustainable Development In Jammu And Kashmir International Conference On "Hydro Power For Sustainable Development" Organised By Government Of Uttarakhand And Alternate Hydro Energy Centre, IIT Roorkee Held On Feb 05-07, 2015.

i) **PAPER ACCEPTED FOR PUBLICATION:** Nilii) **PATENT** : Nil(c) **Doctoral Programme:** 04 No's(d) **Ph.D. Degree awarded:** 04(e) **Master Thesis Completed:** Nil(f) **DOCTORAL PROGRAMME:**

| Sr. No. | Title  | Guide             | Name of Student | Brief Report |
|---------|--|-------------------|-----------------|--------------|
| 1.      | Study of Photovoltaic –Wind based Hybrid Power Generation systems in the Western Himalayan Terrain | Prof. S.S.Chandel | Sunanda Sinha   | Awarded      |

|    |  |                  |                  |         |
|----|--|------------------|------------------|---------|
| 2. | Assessment of Sustainability Indicators for run of the River Hydropower Projects   | Dr.S.S.Katoch    | Deepak Kumar     | Awarded |
| 3. | Performance and Degradation Analysis of Different Photovoltaic Technologies under Field Conditions                                   | Prof.S.S.Chandel | Vikrant Sharma   | Awarded |
| 4. | Artificial Neural Network Based Predication of Solar Radiation for Optimum Sizing of Solar Photovoltaic Systems for Power Generation | Prof.S.S.Chandel | Amit Kumar Yadav | Awarded |

**(g) POPULAR LECTURES BY OUTSIDE EXPERTS:**

| S. No. | Date           | Speaker   | Topic                                     |
|--------|----------------|---|---|
| 01     | 15 Feb.,2015   | Dr.R.P.VedulaDeptt. of Mechanical Engineering, IIT Bombay | Heat Transfer Enhancement Technologies    |
| 02     | 16 April ,2015 | Dr. R.M .SurviyaProf.MechanicalEngg. At MANIT Bhopal      | Solar Concentrator Technologies.          |
| 03     | 07 July,2016   | Dr.Bijan Kumar Mondal                                     | Biodiesel an Alternate Fuel for CI Engine |

**5. CONSULTANCY SERVICES: Nil****6. EQUIPMENT ACQUIRED:**

| Sr. No. | Name of Equipment  | Name of Manufacturer  | Cost (Rs. In INR) |
|---------|--|---|-------------------|
| 1.      | Multi parameter Analyzer   | M/s Mahajan Scientific Engg. Works 1 <sup>st</sup> Floor Opposite ICICI Bank The Mall Solan | 4,03,812/-        |
| 2.      | Data Logging for real time logging and monitoring of Solar water heating Systems | M/s Aimil Ltd. Naimex House A-8 Mohan Co-operative Industrial Estate New Delhi 110044       | 14,40,000/-       |



|    |   |  |             |
|----|---|--|-------------|
| 3. | Data acquisition and online monitoring system for PV Pumping System       | M/s Aimil Ltd. Naimex House<br>A-8 Mohan Co-operative<br>Industrial Estate New Delhi<br>110044 | 8,55,000/-  |
| 4. | Outdoor test Facility for the comparative study of different Technologies | M/s Aimil Ltd. Naimex House<br>A-8 Mohan Co-operative<br>Industrial Estate New Delhi<br>110044 | 17,77,500/- |

## 7. NAME OF LABORATORIES:

| S.No | Name of Laboratory            |
|------|-------------------------------|
| 1.   | Solar Photovoltaic Laboratory |
| 2.   | Solar Thermal Laboratory      |
| 3.   | Energy Simulation Laboratory  |
| 4.   | Bio Energy Laboratory         |
| 5.   | Energy Research Laboratory    |
| 6.   | Bio Fuel Laboratory           |
| 7.   | Environment Laboratory        |

### 3.2 Non-Academic Staff (Non-Teaching) as on 31.03.2016

#### 3.2.1. ADMINISTRATIVE STAFF

| Sr. No. | Title | First Name    | Last Name | Designation                   | Employee Code |
|---------|-------|---------------|-----------|-------------------------------|---------------|
| 1       | Dr.   | Sushil        | Chauhan   | Registrar                     | S0030         |
| 2       | Sh.   | Ramesh Chand  | Gathania  | Deputy Registrar (Accounts)   | S0340         |
| 3       | Sh.   | Pardeep Kumar | Soni      | Deputy Registrar (Admin)      | S0339         |
| 4       | Sh.   | Prithvi Chand | Katoch    | Assistant Registrar (Audit)   | S0121         |
| 5       | Sh.   | Sanjay        | Jamwal    | Assistant Registrar(Admn)     | S0151         |
| 6       | Sh.   | Gaurav        | Sharma    | Assistant Registrar(Academic) | S0344         |
| 7       | Er.   | S.K.          | Walia     | Executive Engineer            |               |
| 8       | Er.   | Vivek         | Sharma    | Assistant Engineer            |               |
| 9       | Er.   | Sandeep       | Sharma    | Assistant Engineer            |               |
| 10      | Dr.   | Mani          | Verma     | Medical Officer               | S0293         |
| 11      | Sh.   | Jagdish Chand | Verma     | Scientific Officer (Grade-II) | S0243         |
| 12      | Sh.   | Anil          | Kumar     | Scientific Officer (Grade-II) | S0057         |
| 13      | Sh.   | Ashwani       | Kumar     | Scientific Officer (Grade-II) | S0059         |
| 14      | Sh.   | Nitin         | Paliwal   | Assistant Librarian           | S0343         |
| 15      | Sh    | Vimlesh       | Patel     | Assistant Librarian           | S0359         |

#### 3.2.2 Technical Staff

| Sr. No. | Title | First Name     | Last Name | Designation                 | Employee Code |
|---------|-------|----------------|-----------|-----------------------------|---------------|
| 1       | Sh.   | Sanjeev Kumar  | Vashisth  | Assistant Engineer (Elect.) | -             |
| 2       | Sh.   | Rajesh         | Sharma    | Assistant Engineer (Tele)   | S0172         |
| 3       | Miss  | Nirmla         | Devi      | Junior Engineer (Civil)     | -             |
| 4       | Sh.   | Som Dutt       | Sharma    | Assistant Librarian         | S0165         |
| 5       | Sh.   | Birender Singh | Minhas    | Assistant Librarian         | S0166         |
| 6       | Sh.   | Rajesh         | Paul      | Sr. Library Assistant       | S0167         |
| 7       | Sh.   | Joginder       | Singh     | Library Assistant           | S0169         |
| 8       | Sh.   | Sarvjit        | Singh     | Sr. Library Assistant       | S0170         |
| 9       | Sh.   | Kartar         | Singh     | Sr. Pharmacist              | S0163         |
| 10      | Sh.   | Amarjeet       | Singh     | Foreman (SG-II)             | S0270         |
| 11      | Sh.   | Ravi           | Singh     | Hardware Engineer (SG-II)   | S0240         |
| 12      | Sh.   | Deep           | Kanga     | Senior Technical Assistant  | S0065         |
| 13      | Sh.   | Om Parkash     | Sharma    | Senior Technical Assistant  | S0105         |
| 14      | Sh.   | Jaspal         | Singh     | Senior Technical Assistant  | S0106         |
| 15      | Sh.   | Balbir         | Singh     | Senior Technical Assistant  | S0077         |
| 16      | Sh.   | Rajpal         | Minhas    | Senior Technical Assistant  | S0092         |
| 17      | Sh.   | Avinash        | Aggarwal  | Senior Technical Assistant  | S0269         |
| 18      | Sh.   | Santosh        | Kumar     | Senior Technical Assistant  | S0275         |
| 19      | Sh.   | Inder Singh    | Guleria   | Technical Assistant         | S0104         |
| 20      | Sh.   | Partap         | Chand     | Technical Assistant         | S0113         |
| 21      | Sh.   | Dhian          | Singh     | Technical Assistant         | S0066         |
| 22      | Sh.   | Bikram         | Singh     | Technical Assistant         | S0084         |
| 23      | Sh.   | Pritam         | Singh     | Technical Assistant         | S0091         |
| 24      | Sh.   | Man            | Chand     | Technical Assistant         | S0108         |

|    |      |               |        |                         |       |
|----|------|---------------|--------|-------------------------|-------|
| 25 | Sh.  | Ravinder      | Kumar  | Technical Assistant     | S0107 |
| 26 | Sh.  | Sanjeev Kumar | Thakur | Technical Assistant     | S0058 |
| 27 | Sh.  | Dev           | Raj    | Technical Assistant     | S0114 |
| 28 | Sh.  | Dinesh        | Kumar  | Technical Assistant     | S0067 |
| 29 | Sh.  | Joginder      | Singh  | Technical Assistant     | S0093 |
| 30 | Sh.  | Krishan       | Dass   | Technical Assistant     | S0109 |
| 31 | Sh.  | Som Raj       | Sharma | Technical Assistant     | S0085 |
| 32 | Sh.  | Kuldeep       | Kumar  | Technician SG-I         | S0171 |
| 33 | Sh.  | Desh          | Raj    | Technician SG-II        |       |
| 34 | Sh.  | Kalyan        | Singh  | Technician SG-II        |       |
| 35 | Sh.  | Ashwani       | Kumar  | Technician SG-II        |       |
| 36 | Smt. | Reeta         | Singh  | Senior Technician       | S0268 |
| 37 | Sh.  | Ajay          | Kumar  | Senior Technician       | S0101 |
| 38 | Sh.  | Sukh Dev      | Singh  | Senior Technician       | S0102 |
| 39 | Sh.  | Parkash       | Singh  | Senior Technician       | S0079 |
| 40 | Sh.  | Rakesh        | Kumar  | Senior Technician       | S0115 |
| 41 | Sh.  | Suresh        | Kumar  | Senior Technician       | S0069 |
| 42 | Sh.  | Shiv          | Dayal  | Senior Technician       | S0070 |
| 43 | Sh.  | Jiwan         | Kumar  | Senior Technician       | S0061 |
| 44 | Sh.  | Rakesh        | Sharma | Senior Technician       | S0060 |
| 45 | Sh.  | Gajinder      | Singh  | Senior Technician       |       |
| 46 | Sh.  | Surinder      | Singh  | Senior Technician       | S0086 |
| 47 | Sh.  | Sunil         | Kumar  | Senior Technician       | S0111 |
| 48 | Sh.  | Santosh Kumar | Yadav  | Senior Technician       | S0266 |
| 49 | Sh.  | Dev Raj       | Sharma | Technician              | S0094 |
| 50 | Sh.  | Ramesh        | Chand  | Technician              | S0068 |
| 51 | Sh.  | Chet          | Ram    | Technician              | S0095 |
| 52 | Sh.  | Roop          | Lal    | Technician              | S0087 |
| 53 | Sh.  | Parkash       | Chand  | Technician              | S0110 |
| 54 | Sh.  | Surinder      | Kumar  | Technician              | S0116 |
| 55 | Sh.  | Vijay         | Kumar  | Technician              | S0267 |
| 56 | Sh.  | Kishore       | Chand  | Sr. Technician          | S0265 |
| 57 | Sh.  | Naresh        | Kumar  | Technician              | S0264 |
| 58 | Sh.  | Mahesh        | Chand  | Work Assistant (Driver) | S0173 |
| 59 | Sh.  | Karam         | Chand  | Work Assistant (Driver) | S0177 |
| 60 | Sh.  | Yaswant       | Singh  | Work Assistant (Driver) | S0174 |
| 61 | Sh.  | Surender      | Pal    | Work Assistant (Driver) | S0316 |
| 62 | Sh.  | Sanjeev       | Kumar  | Work Assistant (Driver) | S0317 |
| 63 | Sh.  | Shameem       | Ahmed  | Work Assistant (Driver) | S0319 |
| 64 | Sh.  | Pawan         | Kumar  | Work Assistant (Driver) | S0326 |

### 3.2.3 Ministerial Staff:

| Sr. No. | Title | First Name   | Last Name | Designation               | Employee Code |
|---------|-------|--------------|-----------|---------------------------|---------------|
| 1       | Sh.   | Baldev Ram   | Sharma    | Superintendent (SG-II)    | S0123         |
| 2       | Sh.   | Nanak Chand  | Negi      | Sr. Superintendent(SG-II) | S0126         |
| 3       | Sh.   | Govind Singh | Gurung    | Sr. Superintendent        | S0127         |

|    |      |               |          |                      |       |
|----|------|---------------|----------|----------------------|-------|
| 4  | Sh.  | Balam Ram     | Rana     | Sr. Superintendent   | S0125 |
| 5  | Sh.  | Tilak Raj     | Kapoor   | Sr. Superintendent   | S0128 |
| 6  | Sh.  | Pritam Chand  | Rangra   | Sr. Superintendent   | S0129 |
| 7  | Sh.  | Dev           | Kumari   | Sr. Superintendent   | S0134 |
| 8  | Sh.  | Amar Nath     | Nath     | Superintendent       | S0133 |
| 9  | Sh.  | Kulwant Singh | Attri    | Superintendent       | S0130 |
| 10 | Sh.  | Satpal        | Sharma   | Superintendent       | S0132 |
| 11 | Sh.  | Rattan Chand  | Verma    | Superintendent       | S0131 |
| 12 | Sh.  | Santosh       | Kumar    | Superintendent       | S0285 |
| 13 | Sh.  | Parkash Chand | Bhardwaj | Superintendent       | S0139 |
| 14 | Sh.  | Raman         | Kumar    | Superintendent       | S0272 |
| 15 | Sh.  | Pritam Singh  | Kanwar   | Secretary (SG-II)    | S0122 |
| 16 | Sh.  | Parkash Chand | Azad     | Secretary            | S0096 |
| 17 | Sh.  | Parvesh       | Kumar    | Secretary            | S0282 |
| 18 | Sh.  | Desh Raj      | Bansal   | Secretary            | S0099 |
| 19 | Sh.  | Dev           | Raj      | Secretary            | S0071 |
| 20 | Sh.  | Gulab Singh   | Thakur   | Stenographer (SG- I) | S0117 |
| 21 | Sh.  | Pushpa        | Devi     | Sr. Stenographer     | S0164 |
| 22 | Sh.  | Ram           | Kumar    | Sr. Stenographer     | S0080 |
| 23 | Smt. | Sangeeta      | Kumari   | Stenographer         | S0150 |
| 24 | Sh.  | Vinod         | Kumar    | Stenographer         | S0149 |
| 25 | Smt. | Raj Kumar     | Sharma   | Asst. SG I           | S0136 |
| 26 | Sh.  | Sanjeev       | Mehta    | Asst. SG I           | S0097 |
| 27 | Sh.  | Pardeep       | Kumar    | Asst. SG I           | S0137 |
| 28 | Sh.  | Kishore       | Kumar    | Asst. SG I           | S0138 |
| 29 | Sh.  | Joginder      | Singh    | Asst. SG I           | S0141 |
| 30 | Sh.  | Rameshwar     | Attri    | Asst. SG II          | S0140 |
| 31 | Sh.  | Pritam        | Chand    | Asst. SG II          | S0143 |
| 32 | Sh.  | Yashpal       | Singh    | Asst. SG II          | S0142 |
| 33 | Sh.  | Dharam        | Singh    | Asst. SG II          | S0144 |
| 34 | Sh.  | Pawan Kumar   | Sharma   | Asst. SG II          | S0145 |
| 35 | Sh.  | Jitender      | Kumar    | Asst. SG II          | S0146 |
| 36 | Sh.  | Surinder      | Singh    | Asst. SG II          | S0072 |
| 37 | Sh.  | Surindera     | Verma    | Asst. SG II          | S0147 |
| 38 | Smt. | Vinod         | Kumar    | Asst. SG II          | S0153 |
| 39 | Smt. | Sukh Dev      | Singh    | Sr. Assistant        | S0286 |
| 40 | Sh.  | Raman         | Thakur   | Sr. Assistant        | S0158 |
| 41 | Sh.  | Meera         | Thakur   | Sr. Assistant        | S0155 |
| 42 | Sh.  | Meena         | Devi     | Jr. Assistant        | S0162 |
| 43 | Smt. | Madan         | Lal      | Sr. Assistant        | S0152 |
| 44 | Smt. | Rajbala       | Jassi    | Sr. Assistant        | S0062 |
| 45 | Sh.  | Raj           | Kumar    | Sr. Assistant        | S0160 |
| 46 | Smt. | Nazima        | --       | Sr. Assistant        | S0159 |
| 47 | Sh.  | Ramneek       | Kumar    | Sr. Assistant        | S0161 |
| 48 | Smt. | Rajeev        | Kumar    | Sr. Assistant        | S0273 |
| 49 | Sh.  | Sohan         | Singh    | Jr. Assistant        | S0081 |
| 50 | Sh.  | Roshan        | Lal      | Jr. Assistant        | S0156 |
| 51 | Sh.  | Ajit          | Kumar    | Jr. Assistant        | S0157 |
| 52 | Sh.  | Vikas         | Dogra    | Jr. Assistant        | S0311 |
| 53 | Sh.  | Ashwani       | Kumar    | Jr. Assistant        | S0314 |
| 54 | Sh.  | Vishal        | Narota   | Jr. Assistant        | S0313 |

|    |     |             |          |               |       |
|----|-----|-------------|----------|---------------|-------|
| 55 | Sh. | Vipan       | Kumar-I  | Jr. Assistant | S0312 |
| 56 | Sh. | Vipan       | Kumar-II | Jr. Assistant | S0315 |
| 57 | Sh. | Shashi Kant | Ratnakar | Jr. Assistant | S0320 |
| 58 | Sh. | V.K.        | Tippan   | Jr. Assistant | S0321 |
| 59 | Sh. | Neenu       | Sharma   | Jr. Assistant | S0325 |

### 3.2.4 Supporting Staff:

|    |      |              |          |           |       |
|----|------|--------------|----------|-----------|-------|
| 1  | Mr.  | Partap       | Chand    | Attendant | S0189 |
| 2  | Mr.  | Bhagwan      | Dass     | Attendant | S0198 |
| 3  | Mr.  | Suresh Chand | Rangra   | Attendant | S0186 |
| 4  | Mr.  | Saju         | Ram      | Attendant | S0184 |
| 5  | Mr.  | Pritam       | Chand    | Attendant | S0103 |
| 6  | Mr.  | Satish       | Chand    | Attendant | S0082 |
| 7  | Mr.  | Balwinder    | Singh    | Attendant | S0193 |
| 8  | Mr.  | Ripan        | Kanwar   | Attendant | S0178 |
| 9  | Mr.  | Virender     | Singh    | Attendant | S0179 |
| 10 | Mr.  | Om           | Prakash  | Attendant | S0181 |
| 11 | Mr.  | Sunil        | Kumar    | Attendant | S0180 |
| 12 | Smt. | Tara         | Devi     | Attendant | S0073 |
| 13 | Smt. | Geeta        | Devi     | Attendant | S0217 |
| 14 | Smt. | Tripta       | Devi     | Attendant | S0215 |
| 15 | Smt. | Sulesho      | Devi     | Attendant | S0083 |
| 16 | Mr.  | Hari         | Singh    | Attendant | S0219 |
| 17 | Mr.  | Bhupinder    | Singh    | Attendant | S0210 |
| 18 | Mr.  | Surinder     | Kumar    | Attendant | S0280 |
| 19 | Mr.  | Shakti       | Chand    | Attendant | S0187 |
| 20 | Mr.  | Yoginder     | Singh    | Attendant | S0187 |
| 21 | Smt. | Manorma      | Chopra   | Attendant | S0098 |
| 22 | Mr.  | Hem          | Raj      | Attendant | S0197 |
| 23 | Mr.  | Dharam       | Singh    | Attendant | S0199 |
| 24 | Mr.  | Kashmir      | Singh    | Attendant | S0196 |
| 25 | Mr.  | Kehar        | Singh    | Attendant | S0194 |
| 26 | Mr.  | Ravinder     | Kumar    | Attendant | S0207 |
| 27 | Mr.  | Vijay        | Kumar    | Attendant | S0202 |
| 28 | Mr.  | Balwant      | Chand    | Attendant | S0064 |
| 29 | Mr.  | Nikka        | Ram      | Attendant | S0200 |
| 30 | Mr.  | Rajinder     | Singh    | Attendant | S0213 |
| 31 | Mr.  | Tilak        | Raj      | Attendant | S0075 |
| 32 | Mr.  | Manohar      | Lal      | Attendant | S0188 |
| 33 | Mr.  | Banka        | Ram      | Attendant | S0074 |
| 34 | Mr.  | Suresh       | Kumar    | Attendant | S0192 |
| 35 | Mr.  | Ashok        | Kumar-I  | Attendant | S0195 |
| 36 | Mr.  | Ravi         | Das      | Attendant | S0190 |
| 37 | Mr.  | Ashok        | Kumar-II | Attendant | S0191 |
| 38 | Mr.  | Lekh         | Raj      | Attendant |       |

|    |      |          |          |                        |       |
|----|------|----------|----------|------------------------|-------|
| 39 | Mr.  | Joginder | Singh    | Attendant              | S0119 |
| 40 | Mr.  | Partap   | Chand    | Attendant              | S0189 |
| 41 | Mr.  | Devinder | Kumar    | Attendant              | S0214 |
| 42 | Mr.  | Milap    | Chand    | Attendant              | S0220 |
| 43 | Mr.  | Suresh   | Kumar    | Attendant              | S0186 |
| 44 | Mr.  | Ramesh   | Chand-I  | Attendant              | S0205 |
| 45 | Ms.  | Sureshta | Devi     | Attendant              | S0204 |
| 46 | Mr.  | Manmohan | Lal      | Attendant              | S0089 |
| 47 | Mr.  | Jiwan    | Parkash  | Attendant              | S0206 |
| 48 | Mr.  | Ramesh   | Chand-II | Attendant              | S0201 |
| 49 | Mr.  | Subhash  | Chand    | Attendant              | S0222 |
| 50 | Mr.  | Chain    | Singh    | Attendant              | S0203 |
| 51 | Mr.  | Jai      | Chand    | Attendant              | S0208 |
| 52 | Mr.  | Vinod    | Kumar    | Attendant              | S0221 |
| 53 | Mr.  | Subhash  | Chand    | Attendant              | S0183 |
| 54 | Mr.  | Ashok    | Kumar    | Sewerman               |       |
| 55 | Mr.  | Anil     | Kumar    | Attendant              | S0262 |
| 56 | Smt. | Salochna | --       | Attendant              | S0263 |
| 57 | Mr.  | Jiya     | Lal      | Attendant              | S0274 |
| 58 | Mr.  | Neeraj   | Kumar    | Attendant              | S0271 |
| 59 | Mr.  | Roshan   | Lal      | Attendant<br>(Works)   |       |
| 60 | Mr.  | Vidya    | Sagar    | Attendant<br>(Works)   |       |
| 61 | Mr.  | Parkash  | Chand    | Attendant<br>(Works)   |       |
| 62 | Mr.  | Rajinder | Singh    | Attendant<br>(Works)   |       |
| 63 | Mr.  | Rakesh   | Kumar    | Attendant<br>(Works)   |       |
| 64 | Mr.  | Prem     | Lal      | Attendant<br>(Works)   |       |
| 65 | Mr.  | Om       | Parkash  | Attendant<br>(Library) | S0276 |
| 66 | Mr.  | Sunil    | Kumar    | Attendant<br>(Library) | S0277 |
| 67 | Mr.  | Subhash  | Chand    | Attendant<br>(Library) | S0279 |
| 68 | Mr.  | Mukesh   | Singh    | Attendant<br>(Library) | S0278 |

#### 4.0 Teaching Programmes:

##### 4.1 Courses Offered:

The following Programmes are offered by the Institute

1. B.Tech/ B.Arch
2. Five years dual degree Bachelor and master of technology
3. M.Tech / M.Arch / MBA
4. Ph.D

## 4.2

**LIST OF REGISTERED STUDENTS 2015-2016**  
**(1<sup>st</sup>, 3<sup>rd</sup>, 5<sup>th</sup>, 7<sup>th</sup> & 9<sup>th</sup> Semester)**

**1<sup>st</sup>. Year 1<sup>st</sup>. Semester: (2015-2016):**

| Course                   | All Communities                  |           |            | Scheduled Caste |           |            | Scheduled Tribe |           |           | OBC        |           |            | Foreign candidate under ICCR/MEA/DASA scheme |           |           |           |
|--------------------------|----------------------------------|-----------|------------|-----------------|-----------|------------|-----------------|-----------|-----------|------------|-----------|------------|--|-----------|-----------|-----------|
| 2015-16                  | B                                | G         | Total      | B               | G         | Total      | B               | G         | Total     | B          | G         | Total      | ICCR (SS)                                    | MEA (WS)  | DASA      | Total     |
| CE                       | 89                               | 02        | 91         | 14              | --        | 14         | 07              | --        | 07        | 24         | 01        | 25         | --   | 01 Male   | --        | 01        |
| EEE                      | 80<br>OPPH 01<br>OBCPH 01        | 09        | 89         | 14              | --        | 14         | 06              | 01        | 07        | 20         | 04        | 24         | --   | --        | --        | --        |
| ME                       | 90 OPPH 01<br>STPH01<br>OBCPH 01 | 01        | 91         | 14              | --        | 14         | 07              | --        | 07        | 25         | --        | 25         | --   | --        | --        | --        |
| E&CE                     | 61<br>OBCPH 01                   | 29        | 90         | 10              | 04        | 14         | 06              | 01        | 07        | 16         | 08        | 24         | --   | 01 Female | --        | 01        |
| CSE                      | 74<br>OBCPH 01                   | 15        | 89         | 11              | 02        | 13         | 06              | --        | 06        | 22         | 03        | 25         | --   | 01 Male   | --        | 01        |
| Chemical Engg            | 48                               | 08        | 56         | 07              | 01        | 08         | 04              | --        | 04        | 13         | 03        | 16         | --   | --        | --        | --        |
| Dual Degree CSE. 05 year | 43                               | 10        | 53         | 05              | 04        | 09         | 03              | --        | 03        | 15         | 01        | 16         | --   | --        | 01 Male   | 01        |
| Dual Degree ECE. 05 year | 45<br>OPPH01                     | 09        | 54         | 09              | --        | 09         | 02              | 02        | 04        | 12         | 02        | 14         | --   | --        | --        | --        |
| Arch.                    | 30 OPPH 01                       | 11        | 41         | 04              | 01        | 05         | 02              | 01        | 03        | 09         | 02        | 11         | --   | --        | --        | --        |
| <b>Total (1)</b>         | <b>560</b>                       | <b>94</b> | <b>654</b> | <b>88</b>       | <b>12</b> | <b>100</b> | <b>43</b>       | <b>05</b> | <b>48</b> | <b>156</b> | <b>24</b> | <b>180</b> | <b>--</b>                                    | <b>03</b> | <b>01</b> | <b>04</b> |

**2<sup>nd</sup>. Year 3<sup>rd</sup>. Semester (2015-2016) :**

| Course  | All Communities            |       |       | Scheduled Caste |       |       | Scheduled Tribe |       |       | OBC  |       |       | Foreign candidate under Min. of Ext. Affairs New Delhi (ICCR Scholarship / Welfare Scheme & DASA) |           |                 |       |
|---------|----------------------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|------|-------|-------|---|-----------|-----------------|-------|
| 2015-16 | Boys                       | Girls | Total | Boys            | Girls | Total | Boys            | Girls | Total | Boys | Girls | Total | SS  | WS        | DASA            | Total |
| CE      | 78<br>OBC PH 01            | 07    | 85    | 10              | 02    | 12    | 07              | 01    | 08    | 22   | 02    | 24    | ---   | 01 Female | ---             | 01    |
| EEE     | 79<br>SCPH 01<br>OPPH 01   | 11    | 90    | 11              | 02    | 13    | 05              | 02    | 07    | 22   | 02    | 24    | ---   | ---       | ---             | ---   |
| ME      | 93<br>OPPH 01              | --    | 93    | 14              | ---   | 14    | 06              | --    | 06    | 25   | --    | 25    | --  | --        | 02 (Nepal) Male | 02    |
| ECE     | 70<br>OPPH 01<br>OBC PH 01 | 22    | 92    | 07              | 07    | 14    | 04              | 03    | 07    | 19   | 04    | 23    | --  | 01 Male   | ---             | 01    |



|                         |                          |           |            |           |           |           |           |           |           |            |           |            |           |            |                    |           |
|-------------------------|--------------------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------------|-----------|------------|--------------------|-----------|
| CSE                     | 71<br>OPPH 01            | 19        | 90         | 11        | 03        | 14        | 06        | 01        | 07        | 19         | 05        | 24         | ---       | 01<br>Male | 01 (Nepal)<br>Male | 02        |
| Chem.<br>Engg.          | 45<br>SCPH 01<br>OPPH 01 | 10        | 55         | 08        | --        | 08        | 03        | 01        | 04        | 11         | 05        | 16         | --        | --         | --                 | --        |
| Arch.                   | 25                       | 17        | 42         | 05        | --        | 05        | 02        | 02        | 04        | 08         | 04        | 12         | --        | --         | 01 Male<br>USA     | 01        |
| Dual<br>Degree<br>(CSE) | 53<br>OPPH 02            | 07        | 60         | 08        | 01        | 09        | 03        | 01        | 04        | 17         | --        | 17         | --        | --         | --                 | --        |
| <b>Total (2)</b>        | <b>514</b>               | <b>93</b> | <b>607</b> | <b>74</b> | <b>15</b> | <b>89</b> | <b>36</b> | <b>11</b> | <b>47</b> | <b>143</b> | <b>22</b> | <b>165</b> | <b>--</b> | <b>03</b>  | <b>04</b>          | <b>07</b> |

**3<sup>rd</sup> Year 5<sup>th</sup> Semester: (2015-2016)**

| Course           | All Communities          |              |            | Scheduled Caste |           |           | Scheduled Tribe |           |           | OBC        |           |            | Foreign candidate under Min. of Ext. Affairs<br>New Delhi (ICCR Scholarship/Welfare<br>Scheme & DASA) |                  |                           |           |
|------------------|--------------------------|--------------|------------|-----------------|-----------|-----------|-----------------|-----------|-----------|------------|-----------|------------|---|------------------|---------------------------|-----------|
|                  | Boys                     | Girls        | Total      | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys       | Girls     | Total      | SS  | WS               | DASA                      | Total     |
| 2015-16          |                          |              |            |                 |           |           |                 |           |           |            |           |            |   |                  |                           |           |
| CE               | 80<br>OPPH02<br>OBCPH01  | 04           | 84         | 13              | --        | 13        | 04              | --        | 04        | 22         | 01        | 23         | --  | --               | --                        | --        |
| EEE              | 68                       | 20<br>OBCPH1 | 88         | 09              | 01        | 10        | 05              | 02        | 07        | 18         | 06        | 24         |   |                  | 01Nepal<br>01Saudi Arabia | 02        |
| Mech.            | 86<br>OPPH 01<br>OBCPH01 | 01           | 87         | 12              | --        | 12        | 05              | --        | 05        | 25         | --        | 25         | --  | --               | 01Nepal<br>01Saudi Arabia | 02        |
| ECE              | 65                       | 19           | 84         | 10              | 03        | 13        | 04              | 02        | 06        | 17         | 05        | 22         | --  | 01<br>Paris      | --                        | 01        |
| CSE              | 66<br>OPPH 1             | 21           | 87         | 11              | 02        | 13        | 04              | 01        | 05        | 18         | 06        | 24         | --  | 01<br>Washington | --                        | 01        |
| Chemical<br>Engg | 45                       | 11           | 56         | 06              | 03        | 09        | 03              | 01        | 04        | 14         | 01        | 15         | --  | --               | --                        | --        |
| Arch.            | 31 OPPH 1                | 12           | 43         | 04              | 02        | 06        | 02              | 01        | 03        | 11         | 01        | 12         | --  | --               | --                        | --        |
| <b>Total (3)</b> | <b>441</b>               | <b>88</b>    | <b>529</b> | <b>65</b>       | <b>11</b> | <b>76</b> | <b>27</b>       | <b>07</b> | <b>34</b> | <b>125</b> | <b>20</b> | <b>145</b> | <b>--</b>   | <b>02</b>        | <b>04</b>                 | <b>06</b> |

**4<sup>th</sup> Year 7<sup>th</sup> Semester: (2015-2016)**

| Course  | All Communities |       |       | Scheduled Caste |       |       | Scheduled Tribe |       |       | OBC  |       |       | Foreign candidate under Min. of Ext. Affairs<br>New Delhi (ICCR Scholarship/Welfare<br>Scheme & DASA) |    |      |       |
|---------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|------|-------|-------|---|----|------|-------|
|         | Boys            | Girls | Total | Boys            | Girls | Total | Boys            | Girls | Total | Boys | Girls | Total | SS  | WS | DASA | Total |
| 2015-16 |                 |       |       |                 |       |       |                 |       |       |      |       |       |   |    |      |       |

|                  |                           |                         |            |           |           |           |           |           |           |            |           |            |           |              |                    |           |
|------------------|---------------------------|-------------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------------|-----------|--------------|--------------------|-----------|
| CE               | 89<br>OPPH 01<br>OBCPH 01 | 04                      | 93         | 14        | --        | 14        | 08        | --        | 08        | 25         | 01        | 26         | --        | --           | --                 | --        |
| EEE              | 86<br>OBCPH01<br>SCPH 01  | 15<br>OPPH 01           | 101        | 16        | 03        | 19        | 07        | 02        | 09        | 29         | 03        | 32         | --        | --           | 01<br>Nepal        | 01        |
| Mech.            | 90<br>OPPH03              | --                      | 90         | 18        | --        | 18        | 05        | --        | 05        | 27         | --        | 27         | --        | --           | 01<br>Nepal        | 01        |
| ECE              | 72<br>OPPH 01             | 19<br>OPPH01<br>OBCPH01 | 91         | 10        | 03        | 13        | 04        | 03        | 07        | 22         | 04        | 26         | --        | 01<br>(Afg)  | --                 | 01        |
| CSE              | 71 OPPH01<br>OBCPH01      | 19                      | 90         | 12        | 03        | 15        | 04        | --        | 04        | 22         | 03        | 25         | --        | 01<br>Guyana | --                 | 01        |
| Arch.            | 34                        | 10                      | 44         | 04        | 01        | 05        | 04        | --        | 04        | 08         | 03        | 11         | --        | --           | 01<br>Abu<br>Dhabi | 01        |
| <b>Total (4)</b> | <b>442</b>                | <b>67</b>               | <b>509</b> | <b>74</b> | <b>10</b> | <b>84</b> | <b>32</b> | <b>05</b> | <b>37</b> | <b>133</b> | <b>14</b> | <b>147</b> | <b>--</b> | <b>02</b>    | <b>03</b>          | <b>05</b> |

**5<sup>th</sup> Year 9<sup>th</sup> Semester: (2015-2016)**

| Course           | All Communities |           |           | Scheduled Caste |           |           | Scheduled Tribe |           |           | OBC       |           |           | Foreign candidate under Min. of Ext. Affairs New Delhi (ICCR Scholarship/Welfare Scheme & DASA) |          |          |          |
|------------------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|---|----------|----------|----------|
| 2015-16          | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys      | Girls     | Total     | SS  | WS       | DASA     | Total    |
| Arch.            | 36<br>OPPH=01   | 15        | 51        | 06              | 03        | 09        | 02              | 01        | 03        | 14        | 02        | 16        | -   | -        | -        | -        |
| <b>Total (5)</b> | <b>36</b>       | <b>15</b> | <b>51</b> | <b>06</b>       | <b>03</b> | <b>09</b> | <b>02</b>       | <b>01</b> | <b>03</b> | <b>14</b> | <b>02</b> | <b>16</b> | <b>-</b>  | <b>-</b> | <b>-</b> | <b>-</b> |

| Course                     | All Communities |            |             | Scheduled Caste |           |            | Scheduled Tribe |           |            | OBC        |           |            | Foreign candidate under Min. of Ext. Affairs New Delhi (ICCR Scholarship/Welfare Scheme & DASA) |           |           |           |
|----------------------------|-----------------|------------|-------------|-----------------|-----------|------------|-----------------|-----------|------------|------------|-----------|------------|---|-----------|-----------|-----------|
| 2015-16                    | Boys            | Girls      | Total       | Boys            | Girls     | Total      | Boys            | Girls     | Total      | Boys       | Girls     | Total      | *SS   | *WS       | *DASA     | Total     |
| <b>G. Total (T1 to T5)</b> | <b>1993</b>     | <b>357</b> | <b>2350</b> | <b>307</b>      | <b>51</b> | <b>358</b> | <b>140</b>      | <b>29</b> | <b>169</b> | <b>571</b> | <b>82</b> | <b>653</b> | <b>--</b>   | <b>10</b> | <b>12</b> | <b>22</b> |

\*SS = Scholarship Schemes, WS= Welfare Scheme, DASA= Direct Admission of students Abroad.

**M. Tech.-2015-2016****M Tech. 1<sup>st</sup> Year 1<sup>st</sup>. Semester (2015-16)**

| Course    | All Communities |       |       | Scheduled Caste |       |       | Scheduled Tribe |      |       | OBC  |      |       | Foreign candidates<br>Under ICCR/DASA |      |       |
|-----------|-----------------|-------|-------|-----------------|-------|-------|-----------------|------|-------|------|------|-------|---------------------------------------|------|-------|
|           | Boys            | Girls | Total | Boys            | Girls | Total | Boys            | Girl | Total | Boys | Girl | Total | ICCR                                  | DASA | Total |
| 2015-16   |                 |       |       |                 |       |       |                 |      |       |      |      |       |                                       |      |       |
| CIVIL     | 51              | 04    | 55    | 08              | 01    | 09    | 02              | 01   | 03    | 17   | 02   | 19    | ---                                   | ---  | ---   |
| ELECT.    | 24              | 06    | 30    | 03              | 02    | 05    | 02              | 00   | 02    | 04   | 01   | 05    | ---                                   | ---  | ---   |
| MECH.     | 26              | 00    | 26    | 03              | --    | 03    | 02              | --   | 02    | 09   | --   | 09    | ---                                   | ---  | ---   |
| ECE       | 20              | 06    | 26    | 03              | 03    | 06    | ---             | ---  | ---   | 06   | 01   | 07    | ---                                   | ---  | ---   |
| CSE       | 08              | 14    | 22    | 02              | 01    | 03    | --              | 01   | 01    | 03   | 04   | 07    | ---                                   | ---  | ---   |
| CMSE      | 08              | 01    | 09    | 03              | --    | 03    | 01              | --   | 01    | 01   | --   | 01    | --                                    | --   | --    |
| CEEE      | 18              | 03    | 21    | 03              | --    | 03    | 01              | 01   | 02    | 03   | 01   | 04    | --                                    | --   | --    |
| ARCH.     | 01              | 03    | 04    | --              | --    | --    | --              | --   | --    | --   | --   | --    | --                                    | --   | --    |
| Total (1) | 156             | 37    | 193   | 25              | 07    | 32    | 08              | 03   | 11    | 43   | 09   | 52    | --                                    | ---  | --    |

**M Tech. 2<sup>nd</sup> Year 3<sup>rd</sup> Semester: (2015-16)**

| Course    | All Communities |          |       | Scheduled Caste |       |       | Scheduled Tribe |      |       | OBC  |      |       | Foreign candidates<br>Under ICCR/DASA |      |       |
|-----------|-----------------|----------|-------|-----------------|-------|-------|-----------------|------|-------|------|------|-------|---------------------------------------|------|-------|
|           | Boys            | Girls    | Total | Boys            | Girls | Total | Boys            | Girl | Total | Boys | Girl | Total | ICCR                                  | DASA | Total |
| 2015-16   |                 |          |       |                 |       |       |                 |      |       |      |      |       |                                       |      |       |
| CE        | 49              | 10       | 59    | 06              | --    | 06    | 02              | 01   | 03    | 14   | 02   | 16    | ---                                   | ---  | ---   |
| EE        | 33              | 08       | 41    | 06              | --    | 06    | 01              | 01   | 02    | 10   | --   | 10    | -                                     | -    | -     |
| Mech.     | 28              | --       | 28    | 04              | --    | 04    | --              | --   | --    | 08   | --   | 08    | ---                                   | ---  | ---   |
|           | OPPH 01         |          |       |                 |       |       |                 |      |       |      |      |       |                                       |      |       |
| ECE       | 29              | 03       | 32    | 04              | --    | 04    | 01              | --   | 01    | 09   | 01   | 10    | ---                                   | ---  | ---   |
|           |                 | OBC PH01 |       |                 |       |       |                 |      |       |      |      |       |                                       |      |       |
| CSE       | 18              | 05       | 23    | 03              | --    | 03    | 01              | --   | 01    | 04   | 02   | 06    | --                                    | --   | --    |
| CMSE      | 03              | 01       | 04    | --              | ---   | --    | --              | --   | --    | --   | --   | --    | --                                    | --   | --    |
| CEEE      | 07              | 02       | 09    | 02              | 01    | 03    | 01              | --   | 01    | --   | --   | --    | --                                    | --   | --    |
|           | OPPH 01         |          |       |                 |       |       |                 |      |       |      |      |       |                                       |      |       |
| ARCH      | 01              | 03       | 04    | --              | 01    | 01    | --              | --   | --    | --   | 01   | 01    | --                                    | --   | --    |
| Total (2) | 168             | 32       | 200   | 25              | 02    | 27    | 06              | 02   | 08    | 45   | 06   | 51    | --                                    | --   | --    |

**M.Tech. 3<sup>rd</sup> Year 4<sup>th</sup> Semester: (2015-16)**

| Course           | All Communities |           |           | Scheduled Caste |           |           | Scheduled Tribe |           |           | OBC       |           |           | Foreign candidates Under ICCR/DASA |           |           |
|------------------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|------------------------------------|-----------|-----------|
|                  | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys            | Girl      | Total     | Boys      | Girl      | Total     | ICCR                               | DASA      | Total     |
| <b>2015-16</b>   | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys            | Girl      | Total     | Boys      | Girl      | Total     | ICCR                               | DASA      | Total     |
| EE               | 01              | --        | 01        | --              | --        | --        | --              | --        | --        | --        | --        | --        | --                                 | --        | --        |
| CMSE             | 01              | --        | 01        | --              | --        | --        | --              | --        | --        | --        | --        | --        | --                                 | --        | --        |
| CEEE             | 01              | --        | 01        | --              | --        | --        | --              | --        | --        | --        | --        | --        | --                                 | --        | --        |
| <b>Total (3)</b> | <b>03</b>       | <b>--</b> | <b>03</b> | <b>--</b>       | <b>--</b> | <b>--</b> | <b>--</b>       | <b>--</b> | <b>--</b> | <b>--</b> | <b>--</b> | <b>--</b> | <b>--</b>                          | <b>--</b> | <b>--</b> |

**M.Tech. 3<sup>rd</sup> Year 5<sup>th</sup> Semester: (2015-16)**

| Course           | All Communities |           |           | Scheduled Caste |           |           | Scheduled Tribe |           |           | OBC       |           |           | Foreign candidates Under ICCR/DASA |           |           |
|------------------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|------------------------------------|-----------|-----------|
|                  | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys            | Girl      | Total     | Boys      | Girl      | Total     | ICCR                               | DASA      | Total     |
| <b>2015-16</b>   | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys            | Girl      | Total     | Boys      | Girl      | Total     | ICCR                               | DASA      | Total     |
| EE               | 01              | --        | 01        | --              | --        | --        | --              | --        | --        | 01        | --        | 01        | --                                 | --        | --        |
| <b>Total (4)</b> | <b>01</b>       | <b>--</b> | <b>01</b> | <b>--</b>       | <b>--</b> | <b>--</b> | <b>--</b>       | <b>--</b> | <b>--</b> | <b>01</b> | <b>--</b> | <b>01</b> | <b>--</b>                          | <b>--</b> | <b>--</b> |

| Course                   | All Communities |           |            | Scheduled Caste |           |           | Scheduled Tribe |           |           | OBC       |           |            | Foreign candidates Under ICCR/DASA |            |           |
|--------------------------|-----------------|-----------|------------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|------------|------------------------------------|------------|-----------|
|                          | Boys            | Girls     | Total      | Boys            | Girl      | Total     | Boys            | Girl      | Total     | Boys      | Girl      | Total      | ICCR                               | DASA       | Total     |
| <b>2015-16</b>           | Boys            | Girls     | Total      | Boys            | Girl      | Total     | Boys            | Girl      | Total     | Boys      | Girl      | Total      | ICCR                               | DASA       | Total     |
| <b>G. Total T1 to T4</b> | <b>328</b>      | <b>69</b> | <b>397</b> | <b>50</b>       | <b>09</b> | <b>59</b> | <b>14</b>       | <b>05</b> | <b>19</b> | <b>89</b> | <b>15</b> | <b>104</b> | <b>--</b>                          | <b>---</b> | <b>--</b> |

**MBA. 1<sup>st</sup> Year 1<sup>st</sup> Semester (2015-16)**

| Course          | All Communities |           |           | Scheduled Caste |           |           | Scheduled Tribe |           |           | OBC       |           |           | Foreign candidates Under ICCR/DASA |            |            |
|-----------------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|------------------------------------|------------|------------|
|                 | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys            | Girl      | Total     | Boys      | Girl      | Total     | ICCR                               | DASA       | Total      |
| <b>2015-16</b>  | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys            | Girl      | Total     | Boys      | Girl      | Total     | ICCR                               | DASA       | Total      |
| DOMS            | 07              | 02        | 09        | 01              | --        | 01        | --              | --        | --        | 03        | --        | 03        | ----                               | ---        | ---        |
| <b>G. Total</b> | <b>07</b>       | <b>02</b> | <b>09</b> | <b>01</b>       | <b>--</b> | <b>01</b> | <b>--</b>       | <b>--</b> | <b>--</b> | <b>03</b> | <b>--</b> | <b>03</b> | <b>----</b>                        | <b>---</b> | <b>---</b> |

## 4.3

**Ph.Ds Course-wise Enrolment 2015-2016****1<sup>st</sup> Semester 2015-16**

| Course    | All Communities |       |       | Scheduled Caste |       |       | Scheduled Tribe |       |       | OBC  |       |       | Nature of Ph.ds |           |         |       |
|-----------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|------|-------|-------|-----------------|-----------|---------|-------|
| 2015-16   | Boys            | Girls | Total | Boys            | Girls | Total | Boys            | Girls | Total | Boys | Girls | Total | Full Time       | Part-Time | Off-Cam | Total |
| CE        | 07              | 01    | 08    | 01              | --    | 01    | --              | --    | --    | 01   | --    | 01    | 08              | --        | --      | 08    |
| EE        | --              | 01    | 01    | --              | --    | --    | --              | --    | --    | --   | --    | --    | 01              | --        | --      | 01    |
| E&CE      | 04              | 02    | 06    | --              | 01    | 01    | --              | --    | --    | 01   | --    | 01    | 05              | 01        | --      | 06    |
| CSE       | 03              | --    | 03    | --              | --    | --    | --              | --    | --    | 01   | --    | 01    | 03              | --        | --      | 03    |
| Physics   | 01              | --    | 01    | --              | --    | --    | --              | --    | --    | --   | --    | --    | 01              | --        | --      | 01    |
| Chemistry | --              | 02    | 02    | --              | --    | --    | --              | 01    | 01    | --   | --    | --    | 02              | --        | --      | 02    |
| Math      | 01              | 01    | 02    | --              | --    | --    | --              | --    | --    | 01   | 01    | 02    | 02              | --        | --      | 02    |
| CEEE      | 02              | --    | 02    | --              | --    | --    | --              | --    | --    | --   | --    | --    | 02              | --        | --      | 02    |
| Total (1) | 18              | 07    | 25    | 01              | 01    | 02    | --              | 01    | 01    | 04   | 01    | 05    | 24              | 01        | --      | 25    |

**2<sup>nd</sup> Semester 2015-16**

| Course   | All Communities |       |       | Scheduled Caste |       |       | Scheduled Tribe |       |       | OBC  |       |       | Nature of Ph.ds |           |         |       |
|----------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|------|-------|-------|-----------------|-----------|---------|-------|
| 2015-16  | Boys            | Girls | Total | Boys            | Girls | Total | Boys            | Girls | Total | Boys | Girls | Total | Full Time       | Part-Time | Off-Cam | Total |
| E&CE     | 01              | 01    | 02    | --              | --    | --    | --              | --    | --    | --   | --    | --    | 01              | 01        | --      | 02    |
| CSE      | 03              | --    | 03    | --              | --    | --    | --              | --    | --    | 03   | --    | 03    | 03              | --        | --      | 03    |
| Total(2) | 04              | 01    | 05    | --              | --    | --    | --              | --    | --    | 03   | --    | 03    | 04              | 01        | --      | 05    |

**3<sup>rd</sup> Semester 2015-16**

| Course    | All Communities |       |       | Scheduled Caste |       |       | Scheduled Tribe |       |       | OBC  |       |       | Nature of Ph.ds |           |         |       |
|-----------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|------|-------|-------|-----------------|-----------|---------|-------|
| 2015-16   | Boys            | Girls | Total | Boys            | Girls | Total | Boys            | Girls | Total | Boys | Girls | Total | Full Time       | Part-Time | Off-Cam | Total |
| EE        | 05              | 01    | 06    | 01              | 01    | 02    | --              | --    | --    | 01   | --    | 01    | 06              | --        | --      | 06    |
| ME        | 05              | --    | 05    | 02              | --    | 02    | --              | --    | --    | 01   | --    | 01    | 04              | --        | 01      | 05    |
| CSE       | 02              | 02    | 04    | 01              | 01    | 02    | --              | --    | --    | 01   | --    | 01    | 03              | 01        | --      | 04    |
| Physics   | 01              | --    | 01    | --              | --    | --    | 01              | --    | 01    | --   | --    | --    | 01              | --        | --      | 01    |
| Chemistry | --              | 01    | 01    | --              | --    | --    | --              | --    | --    | --   | --    | --    | 01              | --        | --      | 01    |
| Total(3)  | 13              | 04    | 17    | 04              | 02    | 06    | 01              | --    | 01    | 03   | --    | 03    | 15              | 01        | 01      | 17    |

**5<sup>th</sup> Semester 2015-16**

| Course  | All Communities |       |       | Scheduled Caste |       |       | Scheduled Tribe |       |       | OBC  |       |       | Nature of Ph.ds |           |         |       |
|---------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|------|-------|-------|-----------------|-----------|---------|-------|
| 2015-16 | Boys            | Girls | Total | Boys            | Girls | Total | Boys            | Girls | Total | Boys | Girls | Total | Full Time       | Part-Time | Off-Cam | Total |

|                 |           |           |           |           |    |           |    |    |    |           |    |           |           |           |    |           |
|-----------------|-----------|-----------|-----------|-----------|----|-----------|----|----|----|-----------|----|-----------|-----------|-----------|----|-----------|
| EE              | 04        | 01        | 05        | 01        | -- | 01        | -- | -- | -- | 01        | -- | 01        | 05        | --        | -- | 05        |
| ME              | 05        | --        | 05        | 01        | -- | 01        | -- | -- | -- | --        | -- | --        | 05        | --        | -- | 05        |
| E&CE            | 07        | --        | 07        | 01        | -- | 01        | -- | -- | -- | 01        | -- | 01        | 06        | 01        | -- | 07        |
| CSE             | 01        | --        | 01        | --        | -- | --        | -- | -- | -- | --        | -- | --        | --        | 01        | -- | 01        |
| Arch.           | 01        | --        | 01        | --        | -- | --        | -- | -- | -- | --        | -- | --        | 01        | --        | -- | 01        |
| CEEE            | 01        | --        | 01        | --        | -- | --        | -- | -- | -- | --        | -- | --        | 01        | --        | -- | 01        |
| Chemistry       | --        | 03        | 03        | --        | -- | --        | -- | -- | -- | --        | -- | --        | 03        | --        | -- | 03        |
| HSS             | 02        | --        | 02        | --        | -- | --        | -- | -- | -- | 01        | -- | 01        | 02        | --        | -- | 02        |
| <b>Total(4)</b> | <b>21</b> | <b>04</b> | <b>25</b> | <b>03</b> | -- | <b>03</b> | -- | -- | -- | <b>03</b> | -- | <b>03</b> | <b>23</b> | <b>02</b> | -- | <b>25</b> |

**6<sup>th</sup> Semester 2015-16:**

| Course           | All Communities |           |           | Scheduled Caste |       |           | Scheduled Tribe |           |           | OBC       |       |           | Nature of Ph.ds |           |         |           |
|------------------|-----------------|-----------|-----------|-----------------|-------|-----------|-----------------|-----------|-----------|-----------|-------|-----------|-----------------|-----------|---------|-----------|
|                  | Boys            | Girls     | Total     | Boys            | Girls | Total     | Boys            | Girls     | Total     | Boys      | Girls | Total     | Full Time       | Part-Time | Off-Cam | Total     |
| 2015-16          |                 |           |           |                 |       |           |                 |           |           |           |       |           |                 |           |         |           |
| EE               | 04              | --        | 04        | --              | --    | --        | --              | --        | --        | 01        | --    | 01        | 04              | --        | --      | 04        |
| ME               | 03              | --        | 03        | 02              | --    | 02        | --              | --        | --        | --        | --    | --        | 03              | --        | --      | 03        |
| ECE              | 02              | 01        | 03        | --              | --    | --        | --              | 01        | 01        | --        | --    | --        | 03              | --        | --      | 03        |
| CSE              | 02              | --        | 02        | --              | --    | --        | --              | --        | --        | 01        | --    | 01        | 02              | --        | --      | 02        |
| <b>Total (5)</b> | <b>11</b>       | <b>01</b> | <b>12</b> | <b>02</b>       | --    | <b>02</b> | --              | <b>01</b> | <b>01</b> | <b>02</b> | --    | <b>02</b> | <b>12</b>       | --        | --      | <b>12</b> |

**8<sup>th</sup> Semester: (2015-2016):**

| Course           | All Communities |       |           | Scheduled Caste |       |       | Scheduled Tribe |       |       | OBC  |       |       | Nature of Ph.ds |           |         |           |
|------------------|-----------------|-------|-----------|-----------------|-------|-------|-----------------|-------|-------|------|-------|-------|-----------------|-----------|---------|-----------|
|                  | Boys            | Girls | Total     | Boys            | Girls | Total | Boys            | Girls | Total | Boys | Girls | Total | Full Time       | Part-Time | Off-Cam | Total     |
| 2015-16          |                 |       |           |                 |       |       |                 |       |       |      |       |       |                 |           |         |           |
| ME               | 01              | --    | 01        | --              | --    | --    | --              | --    | --    | --   | --    | --    | --              | 01        | --      | 01        |
| <b>Total (6)</b> | <b>01</b>       | --    | <b>01</b> | --              | --    | --    | --              | --    | --    | --   | --    | --    | --              | <b>01</b> | --      | <b>01</b> |

**9<sup>th</sup> Semester: (2015-2016):**

| Course          | All Communities |           |           | Scheduled Caste |       |           | Scheduled Tribe |       |       | OBC  |       |       | Nature of Ph.ds |           |           |           |
|-----------------|-----------------|-----------|-----------|-----------------|-------|-----------|-----------------|-------|-------|------|-------|-------|-----------------|-----------|-----------|-----------|
|                 | Boys            | Girls     | Total     | Boys            | Girls | Total     | Boys            | Girls | Total | Boys | Girls | Total | Full Time       | Part-Time | Off-Cam   | Total     |
| 2015-16         |                 |           |           |                 |       |           |                 |       |       |      |       |       |                 |           |           |           |
| CE              | 01              | --        | 01        | --              | --    | --        | --              | --    | --    | --   | --    | --    | --              | --        | 01        | 01        |
| Math.           | 01              | --        | 01        | --              | --    | --        | --              | --    | --    | --   | --    | --    | --              | 01        | --        | 01        |
| Physics         | 01              | 01        | 02        | --              | --    | --        | --              | --    | --    | --   | --    | --    | 02              | --        | --        | 02        |
| Chemistry       | --              | 03        | 03        | --              | --    | --        | --              | --    | --    | --   | --    | --    | 03              | --        | --        | 03        |
| CMSE            | 01              | --        | 01        | --              | --    | --        | --              | --    | --    | --   | --    | --    | 01              | --        | --        | 01        |
| CEEE            | 01              | 02        | 03        | 01              | --    | 01        | --              | --    | --    | --   | --    | --    | 02              | 01        | --        | 03        |
| Arch.           | --              | 01        | 01        | --              | --    | --        | --              | --    | --    | --   | --    | --    | --              | 01        | --        | 01        |
| <b>Total(7)</b> | <b>05</b>       | <b>07</b> | <b>12</b> | <b>01</b>       | --    | <b>01</b> | --              | --    | --    | --   | --    | --    | <b>08</b>       | <b>03</b> | <b>01</b> | <b>12</b> |

**10<sup>th</sup> Semester (2105-2016):**

| Course          | All Communities |           |           | Scheduled Caste |           |           | Scheduled Tribe |           |           | OBC       |           |           | Nature of Ph.ds |           |           |           |
|-----------------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|
|                 | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys      | Girls     | Total     | Full Time       | Part-Time | Off-Cam   | Total     |
| 2015-16         |                 |           |           |                 |           |           |                 |           |           |           |           |           |                 |           |           |           |
| CE              | 01              | --        | 01        | --              | -         | -         | -               | -         | -         | -         | -         | -         | -               | 01        | --        | 01        |
| EE              | 01              | --        | 01        | --              | -         | -         | -               | -         | -         | -         | -         | -         | -               | 01        | --        | 01        |
| ME              | --              | 01        | 01        | --              | -         | -         | -               | -         | -         | --        | -         | --        | -               | 01        | --        | 01        |
| Math            | --              | 01        | 01        | --              | -         | -         | -               | -         | -         | -         | -         | -         | 01              | --        | --        | 01        |
| H&SS            | 01              | --        | 01        | --              | --        | --        | --              | --        | --        | --        | --        | --        | --              | 01        | --        | 01        |
| Arch.           | 01              | 01        | 02        | --              | -         | -         | -               | -         | -         | -         | -         | -         | --              | 02        | --        | 02        |
| <b>Total(8)</b> | <b>04</b>       | <b>03</b> | <b>07</b> | <b>--</b>       | <b>--</b> | <b>--</b> | <b>--</b>       | <b>--</b> | <b>--</b> | <b>--</b> | <b>--</b> | <b>--</b> | <b>01</b>       | <b>06</b> | <b>--</b> | <b>07</b> |

**11<sup>th</sup> Semester (2015-2016):**

| Course           | All Communities |           |           | Scheduled Caste |           |           | Scheduled Tribe |           |           | OBC       |           |           | Nature of Ph.d |           |           |           |
|------------------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|----------------|-----------|-----------|-----------|
|                  | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys      | Girls     | Total     | Full Time      | Part-Time | Off-Cam   | Total     |
| 2015-16          |                 |           |           |                 |           |           |                 |           |           |           |           |           |                |           |           |           |
| CE               | 01              | --        | 01        | --              | --        | --        | ---             | --        | --        | --        | --        | --        | --             | --        | 01        | 01        |
| ME               | 04              | --        | 04        | --              | --        | --        | --              | --        | --        | --        | --        | --        | 01             | 02        | 01        | 04        |
| CSE              | 05              | --        | 05        | --              | --        | --        |                 |           |           |           |           |           | --             | --        | 05        | 05        |
| Math             | --              | 01        | 01        | --              | --        | --        | --              | --        | --        | --        | --        | --        | --             | 01        | --        | 01        |
| CMSE             | 04              | --        | 04        | --              | --        | --        | --              | --        | --        | --        | --        | --        | --             | 03        | 01        | 04        |
| <b>Total (9)</b> | <b>14</b>       | <b>01</b> | <b>15</b> | <b>--</b>       | <b>--</b> | <b>--</b> | <b>--</b>       | <b>--</b> | <b>--</b> | <b>--</b> | <b>--</b> | <b>--</b> | <b>01</b>      | <b>06</b> | <b>08</b> | <b>15</b> |

**12<sup>th</sup> Semester: ((2015-2016) :**

| Course           | All Communities |           |           | Scheduled Caste |           |           | Scheduled Tribe |           |           | OBC       |           |           | Nature of Ph. D |           |           |           |
|------------------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|
|                  | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys            | Girl s    | Total     | Boys      | Girls     | Total     | Full Time       | Part-Time | Off-Cam   | Total     |
| 2015-16          |                 |           |           |                 |           |           |                 |           |           |           |           |           |                 |           |           |           |
| CE               | 02              | --        | 02        | --              | --        | --        | --              | --        | --        | --        | --        | --        | --              | 01        | 01        | 02        |
| EE               | 01              | --        | 01        | --              | --        | --        | --              | --        | --        | --        | --        | --        | --              | --        | 01        | 01        |
| CSE              | 02              | 01        | 03        | 01              | --        | 01        | --              | --        | --        | --        | --        | --        | --              | 02        | 01        | 03        |
| Physics          | --              | 01        | 01        | --              | --        | --        | --              | --        | --        | --        | --        | --        | 01              | --        | --        | 01        |
| H&SS             | 01              | --        | 01        | 01              | --        | 01        | --              | --        | --        | --        | --        | --        | --              | 01        | --        | 01        |
| <b>Total(10)</b> | <b>06</b>       | <b>02</b> | <b>08</b> | <b>02</b>       | <b>--</b> | <b>02</b> | <b>--</b>       | <b>--</b> | <b>--</b> | <b>--</b> | <b>--</b> | <b>--</b> | <b>01</b>       | <b>04</b> | <b>03</b> | <b>08</b> |



**13<sup>th</sup>. Semester: (2015-2016) :**

| Course           | All Communities |           |           | Scheduled Caste |           |           | Scheduled Tribe |           |           | OBC       |           |           | Nature of Ph.d |           |           |           |
|------------------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|----------------|-----------|-----------|-----------|
|                  | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys      | Girls     | Total     | Full Time      | Part-Time | Off-Cam   | Total     |
| 2015-16          |                 |           |           |                 |           |           |                 |           |           |           |           |           |                |           |           |           |
| ME               | 02              | --        | 02        | --              | --        | --        | --              | --        | --        | --        | --        | --        | --             | 01        | 01        | 02        |
| <b>Total(11)</b> | <b>02</b>       | <b>--</b> | <b>02</b> | <b>--</b>       | <b>--</b> | <b>--</b> | <b>--</b>       | <b>--</b> | <b>--</b> | <b>--</b> | <b>--</b> | <b>--</b> | <b>--</b>      | <b>01</b> | <b>01</b> | <b>02</b> |

**14<sup>th</sup>. Semester: (2015-2016) :**

| Course            | All Communities |           |           | Scheduled Caste |          |          | Scheduled Tribe |           |          | OBC      |          |           | Nature of Ph. D |           |           |           |
|-------------------|-----------------|-----------|-----------|-----------------|----------|----------|-----------------|-----------|----------|----------|----------|-----------|-----------------|-----------|-----------|-----------|
|                   | Boys            | Girls     | Total     | Boys            | Girls    | Total    | Boys            | Girls     | Total    | Boys     | Girls    | Total     | Full Time       | Part-Time | Off-Cam   | Total     |
| 2015-16           |                 |           |           |                 |          |          |                 |           |          |          |          |           |                 |           |           |           |
| EE                | 01              | --        | 01        | --              | -        | -        | -               | -         | -        | -        | -        | -         | -               | 01        | --        | 01        |
| ME                | 02              | --        | 02        | --              | -        | -        | -               | -         | -        | -        | -        | -         | -               | -         | 02        | 02        |
| <b>Total (12)</b> | <b>03</b>       | <b>--</b> | <b>03</b> | <b>--</b>       | <b>-</b> | <b>-</b> | <b>-</b>        | <b>--</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>--</b> | <b>-</b>        | <b>01</b> | <b>02</b> | <b>03</b> |

**Zero Semester: 2015-2016:**

| Course           | All Communities |           |           | Scheduled Caste |           |           | Scheduled Tribe |           |           | OBC       |           |           | Nature of Ph.ds |           |           |           |
|------------------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------------|-----------|-----------|-----------|
|                  | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys      | Girls     | Total     | Full Time       | Part-Time | Off-Cam   | Total     |
| 2015-16          |                 |           |           |                 |           |           |                 |           |           |           |           |           |                 |           |           |           |
| EE               | 03              | --        | 03        | --              | --        | --        | --              | --        | --        | --        | --        | --        | --              | 01        | 02        | 03        |
| ME               | 05              | --        | 05        | --              | --        | --        | 01              | --        | 01        | 01        | --        | 01        | 03              | 02        | --        | 05        |
| CSE              | 01              | --        | 01        | 01              | -         | 01        | -               | -         | -         | -         | -         | -         | 01              | -         |           | 01        |
| Physics          | 02              | 04        | 06        | <b>01</b>       | -         | <b>01</b> | -               | -         | -         | -         | -         | -         | 05              | 01        |           | 06        |
| Hum. & SS        | --              | 01        | 01        | -               | -         | -         | -               | -         | -         | -         | -         | -         | 01              | --        | --        | 01        |
| Chemistry        | 01              | 02        | 03        | -               | -         | -         | -               | -         | -         | -         | -         | -         | 03              | --        | --        | 03        |
| CEEE             | 03              | --        | 03        | 01              | --        | 01        | --              | --        | --        | 01        | --        | 01        | 02              | 01        | --        | 03        |
| <b>Total(13)</b> | <b>15</b>       | <b>07</b> | <b>22</b> | <b>03</b>       | <b>--</b> | <b>03</b> | <b>01</b>       | <b>--</b> | <b>01</b> | <b>02</b> | <b>--</b> | <b>02</b> | <b>15</b>       | <b>05</b> | <b>02</b> | <b>22</b> |

| Course                      | All Communities |           |            | Scheduled Caste |           |           | Scheduled Tribe |           |           | OBC       |           |           | Nature of Ph.ds |           |           |            |
|-----------------------------|-----------------|-----------|------------|-----------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------------|-----------|-----------|------------|
|                             | Boys            | Girls     | Total      | Boys            | Girls     | Total     | Boys            | Girls     | Total     | Boys      | Girls     | Total     | Full Time       | Part-Time | Off-Cam   | Total      |
| 2015-16                     |                 |           |            |                 |           |           |                 |           |           |           |           |           |                 |           |           |            |
| <b>G. Total (T1 to T13)</b> | <b>117</b>      | <b>37</b> | <b>154</b> | <b>16</b>       | <b>03</b> | <b>19</b> | <b>02</b>       | <b>02</b> | <b>04</b> | <b>17</b> | <b>01</b> | <b>18</b> | <b>104</b>      | <b>32</b> | <b>18</b> | <b>154</b> |

**4.4 Total Strength of B. Tech. /B.Arch./Dual Degree, M. Tech./M. Arch./MBA/ Ph.D. for the Session-2015-16:**

| Course                                 | All Communities |            |             | Scheduled Caste |           |            | Scheduled Tribe |           |            | OBC        |           |            | Foreign candidate under Min. of Ext. Affairs New Delhi (ICCR Scholarship/Welfare Scheme & DASA) |           |           |            |
|--|-----------------|------------|-------------|-----------------|-----------|------------|-----------------|-----------|------------|------------|-----------|------------|---|-----------|-----------|------------|
|  | Boys            | Girls      | Total       | Boys            | Girls     | Total      | Boys            | Girls     | Total      | Boys       | Girls     | Total      | ICCR  | MEA       | DASA      | Total      |
| <b>2015-16</b>                         |                 |            |             |                 |           |            |                 |           |            |            |           |            |   |           |           |            |
| <b>B. Tech. /B.Arch./ Dual Degree.</b> | <b>1993</b>     | <b>357</b> | <b>2350</b> | <b>307</b>      | <b>51</b> | <b>358</b> | <b>140</b>      | <b>29</b> | <b>169</b> | <b>571</b> | <b>82</b> | <b>653</b> | --  | <b>10</b> | <b>12</b> | <b>22</b>  |
| <b>M.Tech./M.Arch</b>                  | <b>328</b>      | <b>69</b>  | <b>397</b>  | <b>50</b>       | <b>09</b> | <b>59</b>  | <b>14</b>       | <b>05</b> | <b>19</b>  | <b>89</b>  | <b>15</b> | <b>104</b> | --  | ---       | --        | --         |
| <b>MBA</b>                             | <b>07</b>       | <b>02</b>  | <b>09</b>   | <b>01</b>       | --        | <b>01</b>  | --              | --        | --         | <b>03</b>  | --        | <b>03</b>  | ----  | ---       | ---       | --         |
| <b>Ph.D.</b>                           | <b>117</b>      | <b>37</b>  | <b>154</b>  | <b>16</b>       | <b>03</b> | <b>19</b>  | <b>02</b>       | <b>02</b> | <b>04</b>  | <b>17</b>  | <b>01</b> | <b>18</b>  | Full Time   | Part Time | Off Camp  | Total      |
|  |                 |            |             |                 |           |            |                 |           |            |            |           |            | <b>104</b>  | <b>32</b> | <b>18</b> | <b>154</b> |
| <b>G. Total</b>                        | <b>2445</b>     | <b>465</b> | <b>2910</b> | <b>374</b>      | <b>63</b> | <b>437</b> | <b>156</b>      | <b>36</b> | <b>192</b> | <b>680</b> | <b>98</b> | <b>778</b> | --  | --        | --        | --         |

**Students Total Strength**

|                            |             |
|----------------------------|-------------|
| <b>UG Courses</b>          | <b>2183</b> |
| <b>Dual Degree Courses</b> | <b>167</b>  |
| <b>PG Courses</b>          | <b>406</b>  |
| <b>Ph.Ds</b>               | <b>154</b>  |
| <b>Total</b>               | <b>2910</b> |

**4.5 Awards (Students)**

This institution has instituted the following Director's Medals to Best all rounder among UG/PG students and selection for these awards is made by the duly constituted committee, on the basis of last three and half years overall assessment of the student regarding his/her academic achievements, discipline character, attendance activities etc.

- A. Director's Medal to Best all rounder among UG/PG students.
- B. Gold Medal to topper of each B.Tech./B.Arch. stream.
- C. Silver Medal to second topper of each B.Tech./B.Arch. stream.
- D. Gold medal to topper of each PG programme provided the no. of passing out students is at least five.

**Topper in Civil Engineering Branch – 2015****B. TECH.**

| Sr. No. | Roll No. | Name             | Medal | CGPI |
|---------|----------|------------------|-------|------|
| 1.      | 11103    | Ms. Yamini Gupta | Gold  | 8.94 |

**B. TECH.****Topper in Electrical Engg. Branch – 2015**

| Sr. No. | Roll No. | Name                | Medal | CGPI |
|---------|----------|---------------------|-------|------|
| 2.      | 11259    | Mr. Shailesh Kapoor | Gold  | 9.05 |

**B. TECH.****Topper in Mechanical Engg. Branch -2015**

| Sr. No. | Roll No. | Name            | Medal | CGPI |
|---------|----------|-----------------|-------|------|
| 3.      | 11354    | Mr. Ariz Husain | Gold  | 8.91 |

**B. TECH.****Topper in E&CE Branch -2015**

| Sr. No. | Roll No. | Name                | Medal | CGPI |
|---------|----------|---------------------|-------|------|
| 4       | 11480    | Mr. Nishant Kapatia | Gold  | 9.19 |

**B. TECH.****Topper in CSE Branch -2015**

| Sr. No. | Roll No. | Name               | Medal | CGPI |
|---------|----------|--------------------|-------|------|
| 5.      | 11551    | Ms. Shivangi Aneja | Gold  | 8.20 |
| 6.      | 11588    | Ms. Smriti Verma   | Gold  | 8.20 |

**B.ARCH.****Topper in Architecture Branch -2015**

| Sr. No. | Roll No. | Name                | Medal | CGPI |
|---------|----------|---------------------|-------|------|
| 7.      | 10631    | Mr. Arnav Bhagawati | Gold  | 8.43 |

**2<sup>nd</sup> Topper (B.Tech./ B.Arch.)****Civil Engineering Branch – 2015**

| Sr. No. | Roll No. | Name | Medal | CGPI |
|---------|----------|------|-------|------|
|---------|----------|------|-------|------|

|    |       |                    |        |      |
|----|-------|--------------------|--------|------|
| 8. | 11127 | Mr. Sidharth Gupta | Silver | 8.87 |
|----|-------|--------------------|--------|------|

**Electrical Engg. Branch – 2015**

| Sr. No. | Roll No. | Name                 | Medal  | CGPI |
|---------|----------|----------------------|--------|------|
| 9.      | 11214    | Ms. Ishita Vashistha | Silver | 8.94 |

**Mechanical Engg. Branch -2015**

| Sr. No. | Roll No. | Name            | Medal  | CGPI |
|---------|----------|-----------------|--------|------|
| 10.     | 11344    | Mr. Ishan Sinha | Silver | 8.84 |

**E&CE Branch -2015**

| Sr. No. | Roll No. | Name              | Medal  | CGPI |
|---------|----------|-------------------|--------|------|
| 11.     | 11437    | Ms. Ishita Sharma | Silver | 9.10 |

**CSE Branch -2015**

| Sr. No. | Roll No. | Name             | Medal  | CGPI |
|---------|----------|------------------|--------|------|
| 12.     | 11519    | Mr. Ankit Bhatia | Silver | 8.11 |

**Architecture Branch -2015**

| Sr. No. | Roll No. | Name                  | Medal  | CGPI |
|---------|----------|-----------------------|--------|------|
| 13.     | 10616    | Mr. Rishabh Lakhanpal | Silver | 8.22 |

**Topper in M.Tech Civil Engineering Branch – 2015 (Environmental Engg)**

| Sr. No. | Roll No. | Name         | Medal | CGPI |
|---------|----------|--------------|-------|------|
| 14.     | 13M146   | Ms. Rasma. K | Gold  | 9.18 |

**Topper in M.Tech Civil Engineering Branch – 2015 (Structural Engg)**

| Sr. No. | Roll No. | Name           | Medal | CGPI |
|---------|----------|----------------|-------|------|
| 15.     | 13M116   | Mr. Manoj Sood | Gold  | 9.18 |

**Topper in M.Tech Civil Engineering Branch – 2015 (Transportation System Engg.)**

| Sr. No. | Roll No. | Name                | Medal | CGPI |
|---------|----------|---------------------|-------|------|
| 16.     | 13M134   | Mr. Abhimanyu Gupta | Gold  | 8.84 |

**Topper in M.Tech Civil Engineering Branch – 2015 (Water Resource Engg)**

| Sr. No. | Roll No. | Name                      | Medal | CGPI |
|---------|----------|---------------------------|-------|------|
| 17.     | 13M148   | Mr. Krishan Pal Shekhawat | Gold  | 8.26 |

**Topper in M.Tech Civil Engineering Branch – 2015 (Geo-Technical & Underground Engg)**

| Sr. No. | Roll No. | Name               | Medal | CGPI |
|---------|----------|--------------------|-------|------|
| 18.     | 13M105   | Mr. Jeevanandham S | Gold  | 9.08 |

**Topper in M.Tech Electrical Engg. Branch – 2015 (Power System)**

| Sr. No. | Roll No. | Name              | Medal | CGPI |
|---------|----------|-------------------|-------|------|
| 19.     | 13M201   | Mr. Tarun Agarwal | Gold  | 9.16 |

**Topper in M.Tech Electrical Engg. Branch – 2015(Signal Processing & Control)**

| Sr. No. | Roll No. | Name                      | Medal | CGPI |
|---------|----------|---------------------------|-------|------|
| 20.     | 13M226   | Mr. Dhanesh Kumar Agarwal | Gold  | 9.29 |

**Topper in M.Tech Electrical Engg. Branch – 2015 (Conditioning Monitoring Control & Protection apparatus Engg.)**

| Sr. No. | Roll No. | Name                  | Medal | CGPI |
|---------|----------|-----------------------|-------|------|
| 21.     | 13M251   | Mr. Rahul Shrivastava | Gold  | 9.21 |

**Topper in M.Tech Mechanical Engg Branch -2015(Thermal Engineering)**

| Sr. No. | Roll No. | Name               | Medal | CGPI |
|---------|----------|--------------------|-------|------|
| 22.     | 13M301   | Mr. Pankaj Guleria | Gold  | 9.16 |
| 23.     | 13M311   | Mr. Krishna Kant   | Gold  | 9.16 |

**Topper in M.Tech Mechanical Engg Branch -2015(CAD/CAM)**

| Sr. No. | Roll No. | Name                  | Medal | CGPI |
|---------|----------|-----------------------|-------|------|
| 24.     | 13M336   | Mr. Sunil Dutt Baloni | Gold  | 8.61 |

**Topper in M.Tech E&CE Branch -2015(Communication Systems & Networks)**

| Sr. No. | Roll No. | Name               | Medal | CGPI |
|---------|----------|--------------------|-------|------|
| 25.     | 13M425   | Mr. Mohanbir Singh | Gold  | 9.76 |

**Topper in M.Tech E&CE Branch -2015(VLSI Design Automation & Techniques)**

| Sr. No. | Roll No. | Name                           | Medal | CGPI |
|---------|----------|--------------------------------|-------|------|
| 26.     | 13M414   | Ms. Yericharla Mary Asha Latha | Gold  | 9.18 |

**Topper in M.Tech CSE Branch -2015**

| Sr. No. | Roll No. | Name            | Medal | CGPI |
|---------|----------|-----------------|-------|------|
| 27.     | 13M502   | Mr. Ankur Gupta | Gold  | 9.00 |

**Topper in M.Tech CSE Branch -2015(Mobile Computing)**

| Sr. No. | Roll No. | Name              | Medal | CGPI |
|---------|----------|-------------------|-------|------|
| 28.     | 13M533   | Ms. Harpreet Kaur | Gold  | 9.26 |

**Topper in M.Tech Energy Technology - 2015**

| Sr. No. | Roll No. | Name             | Medal | CGPI |
|---------|----------|------------------|-------|------|
| 29.     | 13M706   | Mr. Manish Kumar | Gold  | 8.38 |

**Topper in M.Tech Material Science & Engineering - 2015**

| Sr. No. | Roll No. | Name                     | Medal | CGPI |
|---------|----------|--------------------------|-------|------|
| 30.     | 13M603   | Mr. Nagendra Kumar Joshi | Gold  | 8.79 |

**DIRECTOR MEDAL TO BEST ALL ROUNDER - 2015**

| Sr. No. | Roll No. | Branch           | Name             | Medal |
|---------|----------|------------------|------------------|-------|
| 31.     | 11261    | Electrical Engg. | Mr. Ankush Kumar | Gold  |

## 4.6

## ACADEMIC CALENDAR 2015-16

## ODD SEMESTER

|        |   |  |                    |
|--------|---|--|--------------------|
| 1.     | Reporting Date for Faculty  | 20.07.2015   | Monday             |
| 2. (i) | Registration for B.Tech./B.Arch./Dual Degree (First Semester)                             | <b>To be Notified by CSAB-2015</b>   |                    |
| (ii)   | Registration for M.Tech./M.Arch. (First Semester)   | <b>To be Notified by CCMT-2015</b>   |                    |
| (iii)  | Registration for B.Tech./B.Arch./Dual Degree (Third Semester Onwards)                     | 28.07.2015   | Tuesday            |
| (iv)   | M.Tech./M.Arch. (Third Semester Onwards), Ph.D. (All Semesters)                           | 29.07.2015   | Wednesday          |
| 3.     | Orientation for B.Tech./B.Arch./Dual Degree Freshers                                      | 30.07.2015   | Thursday           |
| 4.     | Commencement of Teaching Work   | 31.07.2015   | Friday             |
| 5.     | Last Date for Registration (With Fine)  | 05.08.2015   | Wednesday          |
| 6.     | Mid Term Theory Examination   | 21.09.2015 to 27.09.2015   | Monday-1W-Sunday   |
| 7.     | Cultural Festival   | <b>To be Notified Separately</b>   |                    |
| 8.     | Mid Term Evaluation of B.Tech./B.Arch./M.Tech./M.Arch. Project/Dissertation               | 06.10.2015 to 09.10.2015   | Tuesday-1W-Friday  |
| 9.     | Mid Term Break  | 17.10.2015 to 25.10.2015   | Saturday-1W-Sunday |
| 10.    | End of Class Work   | 19.11.2015   | Thursday           |
| 11.    | Departmental Meeting Regarding Attendance   | 20.11.2015 (M)   | Friday             |
| 12.    | End Semester Practical Examinations   | 23.11.2015 to 27.11.2015   | Monday-Friday      |
| 13.    | End Semester Theory Examinations  | 30.11.2015 to 13.12.2015   | Monday -2W-Sunday  |
| 14.    | Last Date for Submission of B.Tech./B.Arch. Project/Dissertation                          | 16.12.2015   | Wednesday          |
| 15.    | End Semester Evaluation of B.Tech./B. Arch. Project/Dissertation of Final year            | 17.12.2015 to 18.12.2015   | Thursday-Friday    |
| 16.    | End Semester Ph.D. Seminar (Department wise Slots to be Notified by the Academic Section) | 23.11.2015 to 11.12.2015   | Monday-3W-Friday   |
| 17.    | Last Date for Submission of Grades for Practical and Theory                               | Six Days After the End of Particular Examination But Not Later Than 19.12.2015 in Any Case |                    |
| 18.    | Winter Break for Students   | 14.12.2015 to 04.01.2016   | Monday-3W-Monday   |
| 19.    | Winter Break for Faculty  | 19.12.2015 to 03.01.2016   | Saturday-2W-Sunday |
| 20.    | Declaration of Result   | 01.01.2016   | Friday             |

**EVEN SEMESTER**

|       |   |  |                    |
|-------|---|--|--------------------|
| 1.    | Reporting Date for Faculty  | 04.01.2016   | Monday             |
| 2.(i) | Registration for B.Tech./B.Arch./Dual Degree (All Semesters)  | 05.01.2016   | Tuesday            |
| (ii)  | Registration for M.Tech./M.Arch./Ph.D. (All Semesters)  | 06.01.2016   | Wednesday          |
| 3.    | Commencement of Teaching Work   | 07.01.2016   | Thursday           |
| 4.    | Last date for Registration(With Fine)   | 13.01.2016   | Wednesday          |
| 5.    | Mid Term Theory Examination   | 29.02.2016 to 06.03.2016   | Monday-1W-Sunday   |
| 6.    | Annual Athletic Meet/Prize Distribution   | <b>To be Notified Separately</b>   |                    |
| 7.    | Technical Festival  | <b>To be Notified Separately</b>   |                    |
| 8.    | Mid Term Evaluation of B.Tech./B.Arch./M.Tech./M.Arch. Project/Dissertation   | 07.03.2016 to 11.03.2016   | Monday-1W-Friday   |
| 9.    | End of Class Work   | 21.04.2016   | Thursday           |
| 10.   | Departmental Meeting Regarding Attendance   | 22.04.2016 (M)   | Friday             |
| 11.   | End Semester Practical Examinations   | 25.04.2016 to 29.04.2016   | Monday-Friday      |
| 12.   | End Semester Theory Examinations  | 02.05.2016 to 15.05.2016   | Monday-2W-Sunday   |
| 13.   | Last Date for Submission of B.Tech./B.Arch. Project/Dissertation  | 16.05.2016   | Monday             |
| 14.   | General Proficiency Viva for final year B.Tech.Students.  | 17.05.2016 to 18.05.2016   | Tuesday-Wednesday  |
| 15.   | End Semester Evaluation of B.Tech/ B. Arch. Project/Dissertation  | 19.05.2016 to 20.05.2016   | Thursday-Friday    |
| 16.   | End Semester Ph.D. Seminar (Department wise Slots to be Notified by the Academic Section)   | 25.04.2016 to 13.05.2016   | Monday-3W-Friday   |
| 17.   | Last Date for Submission of Grades for Practical and Theory   | Six Days After the End of Particular Examination But Not Later Than 20.05.2016 in any Case   |                    |
| 18.   | Submission of M.Tech./M.Arch. Dissertation  | On or after 20.05.2016   |                    |
| 19.   | Summer Break for Students   | 17.05.2016 to 25.07.2016   | Tuesday-10W-Monday |
| 20.   | (a) Summer Semester (Detailed schedule shall be notified by Acad. Section.)<br>(b) Time table of Summer Semester to be notified by the concerned Departments. | (i) Registration for Summer Semester 23.05.2016 to in respective departments: 24.05.2016<br>(ii) List of students along with form & name of teacher sent to Acad. Section : 25.05.2016<br>(iii) Commencement of teaching work : 26.05.2016<br>(iv) End of Summer Classes:A day before the start of a particular examination<br><br>(which is variable in order to adjust total number of Classes). |                    |
| 21.   | Summer Break for Faculty  | 21.05.2016 to 17.07.2016   | Saturday-8W-Sunday |
| 22.   | Declaration of Result   | 06.06.2016   | Monday             |

- (a) Students are required to appear in person and submit the Registration Card to their respective Departments on the date of registration for onward transmission to Academic Section.
- (b) Students to deposit fee through ATM only. The transaction fee, if any, to be borne by the students.



#### 4.7 Training and Placement Department:

Training & Placement department has been actively performing and coordinating a number of professional activities for the students. Some of the major activities relating to the students are Practical Training for the students and campus placement.

##### Short Term Industrial Research Experience.

Short Term Industrial Research Experience is an integral part of engineering education that aims to making students familiar with the culture and environment of industries and getting practical knowledge on working of equipment, plants and processes which cannot be accommodated or explained in a laboratory. Students are exposed to the concept of plant management and organization at first hand.

Short Term Industrial Research Experience for the B.Tech./B.Arch. students was arranged in 261 different organizations/industries throughout the country/abroad during May-July 2016 for all B.Tech./B.Arch. students who had completed pre final year students. 6-8 weeks of internship at the end of 3<sup>rd</sup> year are to be completed by each student before appearing the final year.

Internship to be undertaken by students in industries/organization during May-July 2016 is as under:

| Sr. No. | Address   | No. of students |
|---------|---|-----------------|
| 1.      | M/s. Bharat Electronics Ltd. (BEL) Shivalik Nagar Haridwar, Uttarakhand Pin Code - 249403   | 02              |
| 2.      | The SDE (HRD)O/o GMTD Dharamshala BSNL  | 04              |
| 3.      | Sh. SandeepVT Technologies Priemer Institute Of Telecom Technologies HR& Finance Manager Sector 22c sco 2467-68 2 <sup>nd</sup> Floor Chandigarh  | 01              |
| 4.      | Dr. Sridhar Krishnan Associate Dean, Canada Research Chair Department of Electrical and Computer Engineering Ryerson University, 350 Victoria Street Toronto ON M5B 2K3   | 01              |
| 5.      | M/s. Bharat Electronics Limited GOI (Min. of Defence) Enterprose P.O. Bharat Nagar – 201010Ghaziabad (UP) – INDIA   | 01              |
| 6.      | Sh. Pramod KumarIn-Charge Programme Planning & Evaluation Group GOI, Dept. of SpaceIndian Institute of Remote Sensing 4, Kalidas Road, P.B. No. 135Dehradun – 248001, India   | 15              |
| 7.      | Prof. Dr.-Ing. Albert Neuberger Am Wolfs mantel 3391058 Erlangen, Germany   | 01              |
| 8.      | Mrs. MayaSr. Pvt. Secretary to Associate Director, HR Solid State Physics Laboratory (SSPL), DRDO Lucknow Road, Timarpur Delhi - 110054   | 02              |
| 9.      | Sh. V. Lakshmi Narasimhan Officer-in-charge Practical Training & Project Work BARC Training School Anushaktinagar, Mumbai - 400094  | 06              |
| 10.     | Prof. K.V.S. Hari Professor and Chairperson Dept. of E&C EIndian Institute of Science CV Raman Ave, Bengaluru Karnataka - 560012  | 01              |
| 11.     | Sh. Ajay MalhotraSr. Manager – Human Resources Siemens Ltd. Plot 6A, Tower C, Sector – 18Maruti Industrial Estate HUDA Gurgaon - 122015   | 02              |
| 12.     | The Principal CTTC Sunder Nagar(H.P.)BSNL.  | 01              |
| 13.     | Sh. Abhishek Mishra Global Human Resource Campus Program Manager Schneider Electric India Pvt. Ltd. Bearys Global Research Triangle9 <sup>th</sup> Floor, Sy. No. 63/3b Gurvigene Village – Bidarahalli Hobli, Bangalore East Taluk Whitefield Ashram | 01              |

|     |  |    |
|-----|--|----|
|     | Road, Bangalore – 560077   |    |
| 14. | Dr. Prosenjit Sen Convener, Summer Internship Program, CeNSE Indian Institute of Science, Bangalore, Karnataka   | 01 |
| 15. | The General Manager(CM)OCB Telephone Exchange Building chotta Shimla-171002  | 02 |
| 16. | M/s Motor Graphics India Pvt Ltd. Building A, Plot NO.5, Sector -127 Noida-201301 (UP)   | 01 |
| 17. | M/s. Bharat Electronics Ltd.405, Industrial Area, Phase –III Panchkula – 134 113Haryana  | 01 |
| 18. | The SDE(HRD) Office GMTD Hamirpur. Bharat Sanchar Nigam Ltd. Hamirpur. (H.P.)  | 16 |
| 19. | Dr. Neeraj Goel Assistant Professor Department of Computer Science & Engineering Indian Institute of Technology Ropar  | 01 |
| 20. | The Office of the Dy. General Manager Regional telecom training Centre BSNL, Plot NO.SP-B Road NO.14 VKIT Jaipur-302013  | 01 |
| 21. | Dr. Manoj Saxena Deen Dayal Upadhyaya College New Delhi  | 01 |
| 22. | The Addl. Dir (HRD Division)for Director GOI, Ministry of Defence Defence Research and Development Organisation Laser Science & Technology Centre Metcalfe House, Delhi - 110054 | 01 |
| 23. | Mr. Vikas Singh (Ph.D. Scholar) Intelligent Informatics and Automation Laboratory Dept. of Electrical Engineering IIT Kanpur   | 01 |
| 24. | The Professor Incharge Training & Placement Cell Indian Institute of Technology Banaras Hindu University Varanasi - 221005   | 01 |
| 25. | The principal CTTC Sunder Nagar Bharat Sanchar Ltd;( BSNL)   | 01 |
| 26. | Sh. Pavan Kumar Saini Dy. Registrar (Esstt & Acad) Indian Institute of Information Technology Allahabad Deoghat Jhalwa, Allahabad – 211012 (UP)                                  | 01 |
| 27. | The A.G.M (Admn.) Office G.M.T.D., Bhava Nagar Bharat Sanchar Nigam Ltd.2 <sup>nd</sup> floor, C.T.O. building panwadi Bhava Nagar-364001  | 01 |
| 28. | Dr. Sujay Deb Assistant Professor E&CE Dept., IIIT Delhi Okhla Phase – III, New Delhi Pin Code – 110020, INDIA   | 01 |
| 29. | Department of Computer Science & Engineering Indian Institute of Technology Guwahati.  | 01 |
| 30. | The Senior Section Engineer (Tele.)North Western Railway, Jaipur   | 02 |
| 31. | M/s. Power Grid Corporation of India Ltd. Block No.OB-26,Grid Bhawan ,Rail Head Complex , jammu-180012   | 01 |
| 32. | The BSNL office Ashoka Nagar, Guntur-522006Andhara Pradesh.  | 01 |
| 33. | M/s. Electronics Corporation of India Ltd., Personnel Group Corporate Learning and development Centre, Hyderabad -50062  | 02 |
| 34. | M/s. Motors Group India Pvt. Ltd. Building –A ,Plot NO.5, Sector 127Noida-201301   | 01 |
| 35. | The Sub Divisional Engineer (Admin.)RTTC, Plot No Sp-B Road.14VIKA, Jaipur-302013  | 02 |
| 36. | M/s. NTPC Limited NTPC Bhawan, SCOPE Complex7, Institutional Area, Lodi Road New Delhi - 110003  | 01 |
| 37. | M/s. Research Design and Standard Organisation (RDSO) Alamgarh Lucknow (U.P.)-226011   | 02 |
| 38. | Sh. Vaibhav Gupta Technical Officer A'GOI, Ministry of Defence Defence R&D Organization Instruments R&D Establishment Raipur Road, Dehradun – 248 008                            | 01 |
| 39. | The Indian Railways North West Railway   | 01 |
| 40. | M/s. Reliance Jio Infocomm Limited1 <sup>st</sup> Floor, Anand Bhawan Sansar Chandra Road, Jaipur – 302001India.   | 02 |
| 41. | The Manager (HRD) Bharat Electronics LimitedA Govt. of India (Min. of Defence)   | 01 |

|     |  |    |
|-----|--|----|
|     | Enterprise P.O. Bharat Nagar – 201010 Ghaziabad (U.P.) INDIA   |    |
| 42. | M/s. Bharat Sanchar Nigam Ltd. Park Gate Area Vizianagrame, Andhra Pradesh-535002  | 01 |
| 43. | M/s. LG Electronics India Pvt. Ltd. Plot No. 51, Udyog Vihar, Surajpur Kasna Road, Greater Noida Pin – 201306 (UP), INDIA  | 01 |
| 44. | M/s. GIPEDI Summer Internship Program IIT, Delhi Hauz Khas, New Delhi  | 01 |
| 45. | M/s. Aastha Computers Pvt. Ltd. Pugal Road, Bikaner Pin Code – 334001 Rajasthan  | 01 |
| 46. | The Institute of Systems Studies and Analysis (ISSA) Defence Research and Development Organisation (DRDO) Ministry of Defence, Metcalfe House Delhi – 110054, India              | 03 |
| 47. | The Director (Information Technology) Himachal Pradesh Kasumpti, Shimla - 171009   | 01 |
| 48. | M/s All Innovative Technologies D-104 Sector 73, Industrial Area Phase 7, Sahibzada Ajit Singh Nagar, Punjab-160055  | 03 |
| 49. | The Society For Promotion Of IT Chandigarh, PEC Campus Sector-12, Chandigarh-160012  | 03 |
| 50. | Sh. Harshal Maniyar B-405, Sagar Tech Plaza Andheri Kurla Road Near Sakinaka Junction Mumbai - 72  | 02 |
| 51. | M/s Runizen. Com. Gurgaon.   | 03 |
| 52. | The Director Incharge National Institute of Electronics and Information Technology (NIELIT) Extension Centre, Shimla Hotel Caderwood Building, Jakhoo Road Shimla – 171 001 (HP) | 03 |
| 53. | Dr. Deepti R. Bathula Dept. of Computer Science & Engineering Indian Institute of Technology, Ropar  | 01 |
| 54. | Dr. Aurelien Francillon Assistant Professor EURECOM 450 Route Des Chappes 06904 Biot Sophia Antipolis FRANCE   | 01 |
| 55. | M/s Window IT Technologies Pvt. Ltd. SCF 51, Top Floor Phase XI Mohali (PB) 160062   | 01 |
| 56. | Ms. Kamala Martolia Sc.F. HRD Head ISSA DRDO, Metcalfe house k Complex Delhi-110054  | 02 |
| 57. | The Complex Network Research Group Department of Computer Science & Engineering Indian Institute of Technology, IIT Kharagpur West Bengal, India - 721302                        | 01 |
| 58. | M/s. rapidBizApps Pvt. Ltd. #1-98/K/16, Plot No. #16 Kunam's Pride, Krithika Layout Madhapur, Hyderabad – 500 081  | 01 |
| 59. | M/s Fella Technology Solutions Pvt Ltd, Nearbuy Building Ground floor Tower A, Golf Course road, Sector-54 Gurgaon, Haryana, India   | 01 |
| 60. | Sh. Anurag Singh Foundert CEO, Markt. oooooo Market places pvt.ltd. Gurgaon  | 02 |
| 61. | M/s. Muto Technologies Private Limited 302, Chandra Ganga Enclave Brundavan Colony, Dr. A.S. Rao Nagar ECIL Post, Hyd-62   | 03 |
| 62. | M/s. Tazzo Technologies Pvt. Ltd. Level 6, Wing A. Melange Towers 72065, Hitec City, Hyderabad Telangana – 500 081   | 01 |
| 63. | M/s. CDAC, Noida C-56/1, Block-C Institution Area, Sector – 62 Noida, Uttar Pradesh - 201307   | 01 |
| 64. | M/s. All Innovative Technologies D- 104, Sector 73, Industrial Area Phase – 7, Sahibzada Ajit Singh Nagar Punjab - 160055  | 05 |
| 65. | Sh. Alan V. Sinate Asstt. Registrar (UGC) Indian Institute of Technology Delhi Hauz Khas, New Delhi Pin Code - 110016  | 01 |
| 66. | M/S I S S A, D R D O GoI, Min. Of Defence Institute For Systems STUDIES & Analyses Delhi-110054  | 01 |
| 67. | M/s Society For Dromotion of Information Technology Chandigarh, PEC Campus   | 01 |

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|     | Sector-12, Chandigarh- 160012  |    |
| 68. | Sh. K.Divakar GM-DTE India Dynamics Limited  | 02 |
| 69. | Ms. Priyanka Sharma Training Co-ordinatorI3indya TechnologiesG-85 Preet Vihar<br>Vikas Marg, New Delhi – 110092  | 01 |
| 70. | Mr. Ashish JosephCTO-Level Infinite St. Joseph's School, Pocket-D<br>Sector: Alpha – I, GautamBudhnagar, Greater Noida, Uttar Pradesh - 201308                                     | 01 |
| 71. | The BARC Training SchoolGOI, Human Resource Development Division Ahushakti nagar,<br>Mumbai-400094   | 01 |
| 72. | M/s Tailorkraft Bangalore  | 01 |
| 73. | Mr Pramod Kumar In-Charge Programme Plaming & Ecaluation Group GOI, Dept. Of Space<br>IIRS Dehardun  | 01 |
| 74. | Prof. Virendra SinghIndian Institute of Technology Bombay  | 01 |
| 75. | Mr. Pratheek Adidela Muto Technologies Private Limited302, Chandra Ganga<br>Enclave Brundavan ColonyDr. A.S. Rao Nagar ECIL Post, Hyd-62.  | 01 |
| 76. | The Assistant Registrar (Academic Studies)Indian Institute of Technology<br>RoorkeeRoorkee   | 01 |
| 77. | M/s National Remote Sensing Centre(NRSC)Indian Space Research organization<br>(ISRO) Department of Sapace Govt. Of India Hyderabad-500037 Telangana.                               | 01 |
| 78. | Dr. Douglas Blank Associate ProfessorBryn Mawr College Computer Science<br>Department101 North Merion Ave, Rm 246Park Science Building, Bryn MawrPA,<br>USA – 19010                | 01 |
| 79. | The Senior Manager Information Technology department NTOC, India, Post<br>Vidyut NagarDistt. Ambedkernagar   | 01 |
| 80. | Prof. Dr. Ing. Habil. F. Wuttke Chair of Geomechanics und Geotechnics Institute of<br>Applied GeoScienceLudewig-Meyn-Str.10 Christian AlbrechtsUniversitatzu24118<br>Kiel, Germany | 01 |
| 81. | Prof. M.S. Gaur Department of Computer Science & Engineering JLN Marg,<br>Malviya Nagar Jaipur.  | 01 |
| 82. | M/s Rise CommerceC-1767.C-Block Indira Nagar Lucknow.-226016   | 04 |
| 83. | M/s Mutu Technologies Pvt. CIN:U4140 TG2014 O/tc054938Office L302 chandra<br>Ganga Enclave Brundavan colony ECIL Byderabad-500062  | 01 |
| 84. | Sh. Saurabh Mittal HR Manager Zettsy Technologies816, First Floor, Udyog<br>ViharPhase – 5, Gurgaon, Haryana - 122016  | 01 |
| 85. | M/s. Socomo Technologies Pvt. Ltd. <a href="mailto:Contact@jugnoo.in">Contact@jugnoo.in</a> Plot No.5, Sector 28 B,<br>Madhya Marg Chandigarh, India - 160028                      | 01 |
| 86. | M/s. Linchpin Technologies Pvt. Ltd.B-15, 2 <sup>nd</sup> Floor, Sector – 2Noida (UP) - 201301   | 01 |
| 87. | M/s. Metabrainz Foundation3565 South Higuera PEC CampasSector-12, Chandigarh St.,<br>Suite BSan Luis Obispo, CA 93401United States   | 01 |
| 88. | Mr Vishal Gautam ,HRSwisinfotech,Delhi.  | 01 |
| 89. | The Summer Internship Team ASL Lab Department Of Computer Science&<br>Engineering IIT Bombay.  | 01 |
| 90. | M/s Hugh Technolabs Pvt .LtdS 202. Singature Tower Gautam Marg Vaishali Nagar<br>Jaipur Rajasthan-302021   | 01 |
| 91. | Shr. Dheeraj Salaria Chief Operating Officer AII Innovative Technologiesa (AII)  | 01 |
| 92. | Sh. Shubhankar Mitra Asstt. Manager (HRD)National Fertilizers Limited Nangal<br>Unit, Naya Nangal (Punjab) - 140126  | 02 |
| 93. | Mr. Manju Shukla Coordinator, V.T. Cell HRDC, BHEL, Haridwar Pin Code -<br>249403  | 05 |
| 94. | M/s SML Isuzu Limited Village Aswan Distt –Ropar Punjab, India   | 01 |
| 95. | M/s Bharat Heavy Electricals Limited Human Resource Development<br>CentreHaridwar-249403   | 05 |

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| 96.  | Sh. S.K. Gupta General Manager (HR &ADMN.) Bhushan Steel Limited 23, Site IV, Sahibabad Industrial Area Distt. – Ghaziabad – 201010 (UP)  | 01 |
| 97.  | The Co-ordinator, VT Cell Bhilai Steel Plant Durg, Chattisgarh - 490001   | 02 |
| 98.  | Mr. Harish Sharma Him Tekno forge Ltd. Senior Manager –HRT admin VPO Manpura Tehsil Baddi Distt solan.H.P.17401   | 02 |
| 99.  | Sh. P.K. Atrey Acting Chief Administrative Officer Institute of Plasma Research Bhat, Near Indira Bridge, Gandhinagar Gujarat – 382428, INDIA   | 01 |
| 100. | Sh. Ashish Jindal Asst. Manager, ERMTVS Motor Company Ltd.Village Bhatian, Nalagarh (HP)  | 01 |
| 101. | Mr. Vaibhav Gupta Technical Officer ‘A’Govt. of India, Ministry of Defence Defence R&D Organisation Instruments R&D Establishment Raipur Road Dehradun – 248 008                                      | 01 |
| 102. | M/s. Tata Motors Ltd. Technical Training Division Gate No. 3, Plot No. 1, Sector – 11IIE, SIDCUL, Pantnagar Udham Singh Nagar, Uttarakhand - 263145   | 05 |
| 103. | Mr. B.K. Singh(GM-HR)M/s International Tractors Ltd. Village Chak Gujran P.O. Piplanwala -146022Janandhar Road ,Hoshiarpur (pb)   | 02 |
| 104. | M/s. International Tractors Limited Village – Chak Gujran, P.O. – Piplanwala Pin Code – 146 022 Jalandhar Road Hoshiarpur (Pb.) India   | 01 |
| 105. | Sh. Sumit Kapoor Plant HR Honda Cars India Ltd. Plot No. A-1, Sector 40/41, Surajpur – Kansa Road Greater Noida Industrial Development Area Greater Noida (UP) - 201306                               | 01 |
| 106. | The Assistant Registrar (Academic Studies)Indian Institute of Technology Roorkee Roorkee  | 02 |
| 107. | M/s Hindustan AeronauticsP.O.-Chakeri Kanpur(U.P.)208008  | 01 |
| 108. | The Chief Workshop Manager Rail Spring Workshop Sithouli Gwalior -475001  | 02 |
| 109. | M/s. SML ISUZU LimitedSCO, 204-205SEC – 34A,Chandigarh - 160135   | 01 |
| 110. | Indian Institute of Technology Ropar Nangal Road, Rupnagar, Punjab-140001   | 01 |
| 111. | Mr. Ajay Pasrija DGM – Pers. & Admin. Godrej Consumer Products Ltd. Factory : Plot No. 6Apparel Park Cum Industrial Area Village – Katha, Baddi, Tehsil – Nalagarh Dist. – Solan (HP) – 173205, India | 01 |
| 112. | M/s. Tata Motors Ltd. Chinhath Industrial Area Deva Road, Lucknow   | 02 |
| 113. | M/s Horizon Industrial Products Pvt. Plant -4 plot No,45 Sector-3 Int. Manesar, Gurgaon   | 02 |
| 114. | Sh. Ratan Agrawal Plant HR Head Hero Moto Corp Ltd.37 Km Stone, Delhi-Jaipur HighwaySector-33, Gurgaon – 122001 (Haryana)   | 01 |
| 115. | The Divisional Rail Manager Office Old Power House Jaipur (Rajasthan) – 302006  | 01 |
| 116. | Mr. Prashant Deep Gupta Coordinator, V.T. Cell HRDC, BHEL, Haridwar Pin Code - 249403   | 10 |
| 117. | M/s Apen Piping Systems Pvt .Ltd.D-158 Focal Point extension Jalandhar-Punjab-India   | 01 |
| 118. | Sh. Rajeev Ranjan Assist. Manager (T&D) Panipat Refinery and Petrochemical Complex Panipat  | 01 |
| 119. | M/s Bharat Heavy Electricals Ltd. Ramachandrapuram, Hyderabad -32   | 02 |
| 120. | M/s NTPC Unchahar Distt –Raileareli Uttar Pradesh Pin Code -229406  | 01 |
| 121. | Dr. Dhruva Bhargava Sr.D G M (H R D)Bharat Heavy Electricals Ltd. Jhansi.   | 03 |
| 122. | M/s I S G E C Heavy Engineering Ltd Radaur Road Yamunagar -135001Haryana. India.  | 01 |
| 123. | M/s Kanti Bijlee Utpadan Nigam Ltd. Muzaffarpur Thermal Power Station P.O – Kanti Thermal, Kanti, Disstmuzaffarpur  | 01 |
| 124. | The Manager (Security)Tata Motoro Ltd. Jamshedpur   | 01 |
| 125. | M/s Senior Section Engineer Mech. East Cantral Railway Carriage Repair Workshop   | 01 |



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| 126. | The Chief Workshop Manager Mechanical Workshop NE Railways, Gorakhpur - 273001   | 01 |
| 127. | M/s Ashok Leyland Ltd. Plot No. SPL 298, Matsya Industrial Area Alwar Pin-301030-Rajasthan   | 01 |
| 128. | M/s. Himanshu Goel Uber Delhi E-16, First Floor E-Block Market, Hauz Khas New Delhi - 110016   | 01 |
| 129. | Mr. Saurabh Kapoor Group Lead – Talent Acquisition & HR Business Partner Escorts Limited, 18/4, Mathura Road, Faridabad - 121007   | 02 |
| 130. | Eng. Nadeem Syed Khalil Al Zaman Managing Director Al-Zaman for Specialized Co. P.O. Box.- 17180, Jeddah 21484 Saudi Arabia – Old Makkah Road Kilo 4, Beside Saudi Holiandi Bank | 01 |
| 131. | The Factory Manager Tata Motors & Tractors Ltd. Itarana Road, Alwar (Raj.)   | 01 |
| 132. | Mr. Amit Paliwal Senior Executive - Human Resources Crompton Greaves Limited D5, Ind. Area MPAKVN, Mandideep, MP - 462046  | 02 |
| 133. | M/s Flamloyance Exporto Pvt. Ltd. BII DI, Malviya Industrial Area Jaipur-302017  | 01 |
| 134. | The S. K Singh General Manager/HR Delhi Metro Rail Corporation Ltd. Metro Bhawan, FIRE Brigade Lane Barakhamba Road, New Delhi-110001  | 01 |
| 135. | The General Manager DIC Nahan (HP)   | 01 |
| 136. | The Sr. Executive Engineer ES, Division (Anu Substation) HPSEB, Hamirpur (HP)  | 10 |
| 137. | M/s. NHPC Limited Parbati – III Power Station Behali, P.O. – Larji, Distt. – Kullu (HP) - 175122   | 04 |
| 138. | The Under Secretary O/O Chief Engineer (ES) HPSEBL, Hamirpur (HP)  | 08 |
| 139. | The Sr. Divisional Electrical Engineer (EMU) Northern Railway, EMU Car SHED, Ghaziabad.  | 03 |
| 140. | Mrs. Maya Sr. PVT. Secretary to Associate Director, HR Solid State Physics Laboratory (SSPL), DRDO Lucknow Road, Timarpur, Delhi-110054  | 03 |
| 141. | Bharat Heavy Electronics Ltd. Jhamsi-284120  | 02 |
| 142. | The General Manager OPTO Electronics Factory Govt. of India, Raipur Dehradun – 248008 Uttarakhand  | 01 |
| 143. | M/s. NHPC Limited BAIRA SIUL POWER STATION P.O. – Surangani, Distt. – Chamba Pin Code - 176317   | 01 |
| 144. | Sh. Lav Sharma Plant HR Head Hero Moto Corp Ltd. Plot No. 3, Sector 10, IIE, Sidcul Haridwar – 249403 (Uttarakhand)  | 01 |
| 145. | M/s Dehar Power Plant Slapper (H.P)  | 01 |
| 146. | Ms. Richa Bardhan Dy. Mgr. (HR) NTPC Koldam Hydro Power Project  | 01 |
| 147. | M/s. Federal Mogul Pvt. Ltd.   | 01 |
| 148. | Sh. Manoj Kumar Mishra Manager- Human Resources Wipro Consumer Care & lighting Plot No-5, Village – Katha, Bhatuali Kalan, Baddi Distt.- Solan (HP) - 173205                     | 01 |
| 149. | The Director General Research Designs & Standards Organisation Manaknagar, Lucknow – 226 011   | 01 |
| 150. | The Chief Engineer Beas Dam, B.B.M.B. Talwara Township-144216  | 01 |
| 151. | The Office Of The Executive Engineer 220 KVG. SS MIA, Alwar Rajasthan Rajya Vidgat Prasaran Nigam Limited.   | 01 |

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| 152. | M/s. Vadenar Power Company Ltd. ESSAR Power, Refinery Site(ESSAR Refinery), Jamnagar Okha Highway, Vadenar Jamnagar, Gujarat - 361305   | 01 |
| 153. | Sh. Jagnayak Singh Executive Engineer, Electy400 K.V. Substation Division U.P. Power Trans.. Corp. Ltd. Panki Kanpur - 208020   | 01 |
| 154. | The Dehar Power Plant Slapper Mandi (HP)  | 01 |
| 155. | M/s. National Load Dispatch Centre (NLDC)POSOCOB-9, Qutub Institutional Area Katwaria Sarai, New DelhiDelhi - 110016  | 02 |
| 156. | Sh. Man Mohan SinghSr. Manager NTPC Limited Badarpur Division, Gyan Sarita New Delhi - 110044   | 01 |
| 157. | Sh. Amit Kumar Asst. Manager Traction (Line-4/KB-NCC-VASI)DMRC  | 01 |
| 158. | Dr. Dinesh Kalyana sundaram Assistant Professor Centre for Biomedical Engineering IIT Delhi   | 01 |
| 159. | Sh. R.K. MeenaExecutive Engineer220 KV GSS RRVPNL Dausa (Rajasthan) - 302005  | 01 |
| 160. | Sh. Ch. Anjaneyulu Manager (HR)Power Grid Corporation of India Limited Office Block No.:OB-26, "GRID BHAWAN"Rail Head Complex, Jammu - 180012   | 01 |
| 161. | Sh. Amit Gupta Assistant Manager Delhi Metro Rail Corporation Ltd.(DMRC) Delhi  | 02 |
| 162. | Sh. Amit N. Sunny DMRC, Subhash Nagar Indraparastha, Gurgaon Kashmiri Gate, Delhi   | 01 |
| 163. | The Professor Incharge Training & Placement CellIndian Institute of TechnologyBanaras Hindu UniversityVaranasi - 221005   | 01 |
| 164. | The Executive EngineerO & M Division, 220 KV Substation Power Transmission Corporation of Uttarakhand Ltd.Pantnagar, Udham Singh Nagar – 263153Uttarakhand  | 01 |
| 165. | Sh. V.K. SinghDy. General Manager (HRD)Power Grid Corporation of India Limited "Saudamini" Plot No. 2, Sector – 29Gurgaon – 122001, Haryana   | 01 |
| 166. | M/s N H P C Limited Teesta V Power Station Singtam, East Sikkim Pin Code - 737134   | 01 |
| 167. | The Sr. DEE/JP Divisional OfficeJaipur-302006   | 01 |
| 168. | Sh. Rajneesh PandeySr. DGM/HR/O& MDelhi Metro Rail Corporation Ltd.MetroBhawan, Fire Brigade LaneBarakhamba Road, New Delhi – 110001  | 01 |
| 169. | Mr. Setu RamanNTPC LimitedManager (PE-Civil)Engineering Office ComplexSector -24, Noida   | 01 |
| 170. | The Executive Engineer Hamirpur Division HPPWD Hamirpur (HP)  | 06 |
| 171. | Ms. Poonam Chandok Head – Human Resources Transportation Infrastructure Independent Company Larsen & Toubro Limited, Construction Transportation InfrastructureLandmark 'B', Ground Floor, 3rd, 5th & 6th Floors, Suren Road, Off. Andheri – Kurla Road Andheri (East), Mumbai – 400 093, INDIA | 03 |
| 172. | Mr. Abhishek ChauhanNTPC Limited Manager (PE-Civil)Engineering Office Complex Sector -24, Noida   | 01 |
| 173. | The Headquarters Chief EngineerProject Rohtang Tunnel Pin 931720C/056APO  | 01 |
| 174. | Mr. Sanjay ThapliyalCol. OC Contract For Chief Engineer Project Rohtang TunnelPin 931 720, C/o 56 APO   | 03 |



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| 175. | Dr. Munish K. Chandel Assistant Professor Centre for Environmental Science and Engineering Indian Institute of Technology, Bombay Powai, Mumbai – 400 076  | 02 |
| 176. | Dr. Sunil Bhardwaj Scientist'E'GOI, Ministry OF Defence Defence Research And Development. Organization(DRDO) Snow And Avalanche Study Establishment(SASE)Chandigarh(UT)160036                                | 01 |
| 177. | Mr. N. Dharmarajan Head – Human Resources Buildings & Factories IC Larsen & Toubro Limited Construction Buildings & Factories Mount Poonamallee Road Manapakkam, P.B. No. 979Chennai – 600 089, INDIA        | 03 |
| 178. | Sh. S.K. SinhaGeneral Manager/HR Delhi Metro Rail Corporation Ltd. Metro Bhawan, Fire Brigade Lane Barakhamba Road, New Delhi - 110001   | 01 |
| 179. | M/s. NHPC Limited Parbati H.E. Project Stage-IIParbati Complex, Nagwain Distt. – Mandi (HP)Pin Code - 175121   | 03 |
| 180. | Mr. Anurag BhardwajSr. Officer (P&A)SVVN Limited, Himfed Building New Shimla – 171 009   | 02 |
| 181. | Sh. K.R. RaviVP & Head-Human ResourcesHeavy Civil Infrastructure IC Larsen & Toubro Limited, Construction Heavy Civil Infrastructure, Mount Poonamallee RoadManapakkam, P.B. No. 979Chennai – 600 089, INDIA | 02 |
| 182. | The Registrar Mandi Zone HPPWD Mandi - 175001  | 01 |
| 183. | M/s Elegant Consulting Engineers 9/623, Vasundhara, Ghaziabad-201012 (UP)  | 01 |
| 184. | M/s Shaarc Projects LimitedC/o –Indiabulls Infrostructure Pvt.Ltd. Eastwgile Ambika Textile Mill Compound Jetalpur Road , Vadodara   | 01 |
| 185. | M/s. IL&FS Engineering & Construction Company Ltd.Village Kuddi, Post. – Sadar, NH-24Bilaspur, (HP), INDIA   | 01 |
| 186. | The Executive Engineer Kangra Division, HP: PWD, Kangra  | 01 |
| 187. | Sh. RajanRawalExecutive Director, Centre for Advanced Research in Building Science & Energy CEPT University, K.L. Campus Navrangpura, Ahmedabad – 380 009, INDIA   | 01 |
| 188. | Mr. Suraj PrakashNTPC LimitedManager (PE-Civil)Engineering Office ComplexSector -24, Noida   | 01 |
| 189. | Mr. Rajneesh PandeySr. DGM/HR/OTMDelhi Metro Rail Corporation Ltd Metro Bhawan, Fire Brigade lane Barakhamlala Road , New Delhi  | 01 |
| 190. | M/s LST Water Supply Div.Flat No.-39 Marudhar Kesari NagarManpura Bhakari, Near NHPali, Rajasthan-306401   | 02 |
| 191. | Mr. Mahaveer Prasad Jakhar Executive Engineer PWD Division Hanumangarh   | 01 |
| 192. | The Executive Engineer Construction Division – 2PWD, Bijnor(H.Q. – Najibabad)  | 01 |
| 193. | The Chief EngineerIII Jodhpur Project CPWD, Jodhpur(Raj)-342001  | 02 |
| 194. | Sh. Rajeev Ranjan Assist. Manager (Training & Development) Panipat Refinery and Petrochemical complex Panipat  | 01 |
| 195. | M/s Kashish Developers Ltd87,Old A.G.Colony, Kadru,Ranchi-834002   | 04 |
| 196. | Sh. S. Ramkishore Head – Human Resources Water, Smart World & Communication IC Larsen & Toubro Limited L&T Construction Mount Poonamallee Road Manapakkam, P.B. No. 979Chennai – 600 089, INDIA              | 01 |
| 197. | The Rajasthan Public Works Department Executive Engineer Zone Jhunjhunu Jhunjhunu (Rajasthan) - 333001   | 01 |
| 198. | The Dyce /CONST, Northern Railway, State Entry, Road New Delhi   | 01 |
| 199. | M/s Nirala Housing Pvt LtdH-121 Sector-63Noida-201301  | 01 |

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| 200. | The Executive Engineer CPWD, Arera Hills Nirman Sadan, Bhopal(MP)-462011  | 02 |
| 201. | M/s. IFSTTAR Site de Nantes Route de Bouaye-CS4-44341Bouguenais, France   | 01 |
| 202. | Sh. Pramod Mishra Deputy General Manager – HRDM/s. Simplex Infrastructure Ltd.“Vaikunth” (2nd Floor), 82-83, Nehru Place New Delhi – 110 019  | 01 |
| 203. | The Divector Puddle Scope Dartmouth College USA   | 01 |
| 204. | The Indian Institute of Technology Bombay Powai, Mumbai – 400076Maharashtra, India  | 01 |
| 205. | Sh. Shubhankar Mitra Assistant Manager (HRD)National Fertilizers Limited Nangal Unit, Naya Nangal (Pb.)Pin Code - 140126  | 04 |
| 206. | Sh. RavinderJaswalAsstt. General Manager (HR)Punjab Alkalies & Chemical Limited Nangal-UnaRaod, Naya Nangal Pin – 140 126, Distt. – Ropar, Punjab   | 02 |
| 207. | M/s Scott-Edil Advance Research Laboratories& Education Ltd. Hill Top,Ind.AreaBhatoliKalan, Baddi, DisttSolan(HP)Pin Code-173205  | 01 |
| 208. | Prof. B.C. Meikap Professor & Professor-in-charge Institute Guest Houses Dept. of Chemical Engineering IIT – Kharagpur – 721 302  | 05 |
| 209. | M/s Alembic Ltd,Plot No. 21,22,E P I P-Phase-1Jhamajri,Baddi, Teh. Nalagarh Distt –Solan (HP)   | 03 |
| 210. | M/s Sukhjeet Starch And Cheicals LtdG.T. Road Phagwra Punjab National Bank Circle Office Kapurthala   | 01 |
| 211. | M/s. R&D CISSteel Authority of India Ltd. (SAIL)Ranchi  | 06 |
| 212. | Dr. Muhammad Afzal University of New Brunswick –Fredericton New Brunswick, Canada Suite 301, Technology Enterprise Facility University of British Columbia6190 Agronomy Road, VancouverV6T 1Z3. | 01 |
| 213. | Sh. Mithilesh Juvle AGM-Finance & Admin Thermon Heat Tracers Private LimitedG-144/145, Kailash Vaibhav Complex Vikroli (W), Mumbai - 400079   | 01 |
| 214. | M/s Punjab Chemicals And Crop Protection LtdAgro chemicals Division Sco 183,Firest Floor, Sector-26Madhya Marg, Chandigarh-160019,India   | 02 |
| 215. | Prof. Rajendra SinghDean, Undergraduate Studies Professor, Department of Agricultural & Food Engineering Indian Institute of Technology Kharagpur Kharagpur - 721302                            | 01 |
| 216. | M/s Terrace Pharmaceuticals (P)Ltd Plot No.3- B(A) Phase –III Industrial Area, Distt. Kangra (HP)   | 01 |
| 217. | M/s S R F Limited V.P.O-Khijuriwas Bhiwadi, Distt-Alwar Rajasthan -517839   | 01 |
| 218. | M/s. L &T – Gulf L&T Faridabad Campus12/4, Delhi Mathura Road, Faridabad, Haryana - 121003  | 01 |
| 219. | Sh. Ashish Deshmukh Sr. Mgr – Capability Building Hindustan Petroleum Corporation Limited17, Jamshedji Tata Road, P.O. – Box No. 10041, Mumbai – 400 020  | 01 |
| 220. | M/s National Fertilizers Limited Nangal Unit, Naya Nangal (Pb.)Pin Code - 140126  | 02 |
| 221. | The Training & Development Department IOCL, Panipat Refinery and Petrochemical Complex Panipat  | 01 |
| 222. | The Incharge, Training Centre ONGC, Hazira Plant Surat  | 01 |
| 223. | M/s ONGCAhmedbad  | 01 |
| 224. | M/s Oil And Natural Gas Corporation Ltd.ONGC Academy Komipe Campus, Kaulagarh RoadDehradun-248195   | 01 |

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| 225. | Dr. Peter Schossig Head of the Dept. Thermally Active Materials and Solar CoolingFraunhofer- Institute for Solar Energy Systems ISE Freiburg, Germany   | 01 |
| 226. | M/s. Indian Oil Panipat Refinery and Petrochemical Complex Training & Development Department Panipat  | 01 |
| 227. | M/s. Barauni RefineryIndian Oil Corporation Ltd. P.O. Barauni Oil Refinery Dist. Begusarai, Bihar Pin Code - 851114   | 01 |
| 228. | M/s Bharat Oman Refineries Ltd Bina, Madhya Pradesh.  | 01 |
| 229. | The Natioal Fertilizers LtdA. Government OF India Undertaking, Nangal Unit Naya Nangal (PB)-140126  | 01 |
| 230. | Dr. T.R. Ravindran, Ph.D. (IIT Madras)Associate Professor Homi Bhabha National Institute& Scientific Officer-GMaterials Science Group, Dept. of Atomic Energy Indira Gandhi Centre for Atomic Research Kalpakkam Pin Code – 603102, Tamil Nadu, India | 01 |
| 231. | The International Advanced Research Centre for Power Metallurgy and New Materials P.O. – Balapur, Hyderabad – 500 005, Telangana, INDIA   | 01 |
| 232. | M/s Snow Leopard Production Chandigarh  | 02 |
| 233. | Mr. Anish Madhav M/s Covision Construction Consulants Pvt .Ltd.H.No.221,W.No6 Gandhi Nagar Near Gandhi Chouk, Hamirpur(HP)-177001   | 03 |
| 234. | M/s Studio Symbiosis Architects Block D Sector-48Noida,UP-201303  | 01 |
| 235. | Ar. Harendra Singh M/s Line Of ForceS.C.O.2,Second Floor Sector II,Panchkula-134109(Haryana)  | 01 |
| 236. | M/s Arc Engineers, Architects &Builders Near Sheetla Mata Bridge Sarwari Kullu Disstt. Kullu (H.P)  | 01 |
| 237. | Ar. Sangeet SharmaS. D.Sharma And associatesSCO-54/1,MDCPanchkula-134109  | 01 |
| 238. | M/s Mind Your Fleat Noida, Delhi NCR  | 01 |
| 239. | Sh. Ranjodh Singh M/s Habitat Architects1777, Maharaj Nagar Ludhiana (INDIA)  | 01 |
| 240. | M/s Philips India Limited Gurgaon,(Haryana)   | 01 |
| 241. | M/s.Design Concepts Development Area, Gangtok, Sikkim-737101  | 02 |
| 242. | Ar. Lakhbir SinghDesigners Consortium (P)LtdSco-112-13,First Floor Sector - 8c,Chandigarh   | 01 |
| 243. | Ar.Nand Lal Chandel Sr. Architect (M.Z.)H.P.P.W.D Mandi   | 01 |
| 244. | Ms Aadhar Architectss.c.f264,sec-16Panchkula, First Floor Haryana   | 01 |
| 245. | Master Crofts Ajay Kumar SharmaYamini Parisar Palampur-176061   | 01 |
| 246. | M/s Design Group Architects and Environmental Planners27,Julena Commercial Complex, Okhla Road New Delhi- 110025  | 01 |
| 247. | The Administrative Officer Chief Architect Dept . Of Urban Planning Chandigarh Administration   | 01 |
| 248. | Ar. Panjeet Kanaujia B.Arch. M ICA.405-A, Shiv VIHAR Road Ram Nagar Dharamshala, Kangra Valley (HP) -176215   | 01 |
| 249. | M/s S.K. Bansal And Associates Architects Engineers Planners Surveyors & Govt App. Valuers. New Mandi, Muzaffar nagar   | 01 |
| 250. | Malik Architectuer2nd Floor ,Kaiser-I-Hind1/6 Currimbhoy Road Ballard Estate, Mumbai-40001  | 01 |
| 251. | M/s Rajiv Marwah & AssociatesA-1/323, Pasehim Vihar New Delhi-110063  | 01 |

|      |  |    |
|------|--|----|
| 252. | Sh. Surinder Bahga Architect For Saakaar Foundation S .C.O..53-55,3rd Floor, Near G. P.O.Sector -17D, Chandigarh-160017(India)               | 01 |
| 253. | Ms Sanhitasinha Chowdhury Managing director architectural digest India.  | 01 |
| 254. | M/s Axxom India Axiom Office NO  | 01 |
| 255. | Ar. Sangeet Sharma SD Shrama & Associates Panchkula- 134109  | 01 |
| 256. | M/s Vivek & Associates Architects, Engineers, Planners & Int. Designers Office Padleyganj, Infront Of Semrahawababa Gorakpur                 | 01 |
| 257. | M/sVinay Goyal And Associates1st Floor, Shivam Plaza P.L Sharma Road Meerut  | 01 |
| 258. | The Senior Architect(MZ)HP.PWD Mandi   | 03 |
| 259. | M/s Wedding Card Designers Binoli Road ,Sardhana Meerut, UP-270432   | 01 |
| 260. | Ar.E. Vijay Bhaskar COA Regd. No. CA/1993239-27-41/7, Flat No. 102. Suri Shanti Landmark South Madavdhara, Vuda Colony Visakhapatnam -530018 | 01 |
| 261. | M/s Vastukar Vinay Shrama &Assocites Archtects Engineer Interior Designers Subhash Chowk Palampur (HP)                                       | 01 |

### Campus Placement:

During the academic session 2015-16, 54 companies from different sectors visited our Institute for campus placement of B.Tech./M.Tech./Ph.D. students. In all, 404 offers have been issued to our B.Tech. students. The following is the list of companies who visited the institute and the record of placement for the academic year 2015-16.

### Placement for 2015 - 2016

#### B.Tech. 2016 batch

| (Total 54 Nos. of organizations in which student has been placed during the year 2015-16 ) |                    |                               |                       |   |                         |
|--|--------------------|-------------------------------|-----------------------|---|-------------------------|
| Sr. No.  | Discipline         | No. of students in final year |                       | Total No. of students placed through Placement Cell | Percentage of placement |
|  |                    | Total                         | Eligible/<br>Appeared |   |                         |
| 1  | Elect.& Comm. Engg | 91                            | 75                    | 72+24*  | 96.00                   |
| 2  | Comp.Sc. &Engg.    | 90                            | 78                    | 73+31*  | 93.58                   |
| 3  | Electrical Engg.   | 102                           | 83                    | 61+23*  | 73.49                   |
| 4  | Mechanical Engg.   | 90                            | 70                    | 60+18*  | 85.71                   |
| 5  | Civil Engg.        | 93                            | 62                    | 35+07*  | 56.45                   |
| <b>Total:</b>  |                    | <b>466</b>                    | <b>368</b>            | <b>301+103*</b>                                     | <b>81.79</b>            |

- **Marked\* students have got more than one job.**

**M.Tech. 2016 Batch**

| <b>2016 (Total 09 Nos. of organizations in which student has been placed during the year 2015-16)</b> |  |                                      |                           |  |                                |
|---|--|--------------------------------------|---------------------------|--|--------------------------------|
| <b>Sr. No.</b>  | <b>Discipline</b>  | <b>No. of students in final year</b> |                           | <b>Total No. of students placed through Placement Cell</b> | <b>Percentage of placement</b> |
|   |  | <b>Total</b>                         | <b>Eligible/ Appeared</b> |  |                                |
| 1   | Geotechnical Engg.   | 12                                   | 10                        | 2  | 20.0                           |
| 2   | Structure Engg.  | 14                                   | 14                        | -  | -                              |
| 3   | Transportation Systems Engg.   | 14                                   | 13                        | 4  | 30.76                          |
| 4   | Water Resource Engg.   | 06                                   | 05                        | -  |                                |
| 5   | Environmental Engg.  | 13                                   | 13                        | 1  | 7.69                           |
| 6   | (CAD-CAM) (ME)   | 14                                   | 14                        | 2  | 14.28                          |
| 7   | THERMAL ENGG. (MECH. ENGG.)  | 14                                   | 14                        | 5+1*   | 35.71                          |
| 8   | Condition Monitoring, Protection & Control of Electrical Apparatus (EEE) | 12                                   | 11                        | 3  | 27.27                          |
| 9   | Signal Processing & Control (EEE)  | 14                                   | 14                        | 3  | 21.42                          |
| 10  | Power Systems (EEE)  | 17                                   | 15                        | 8  | 53.33                          |
| 11  | VLSI Design & Automation Techniques (ECE)                                | 17                                   | 13                        | 7  | 53.84                          |
| 12  | Comm. Systems & Networks (ECE)   | 15                                   | 15                        | 7  | 46.66                          |
| 13  | Comp.Sc. & Engg.   | 17                                   | 17                        | 5+1*   | 29.41                          |
| 14  | Mobile Computing   | 06                                   | 06                        | 2  | 33.33                          |
| 15  | Energy Technology  | 10                                   | 09                        | 4  | 44.44                          |
| 16  | Material Sc. & Engg.   | 05                                   | 04                        | 1  | 25.0                           |
| 17  | Architecture   | 04                                   | 04                        | -  | -                              |
| <b>Total:</b>   |  | <b>204</b>                           | <b>191</b>                | <b>54+2*</b>   | <b>28.27</b>                   |

**CAMPUS PLACEMENT RECORD OF B.TECH / B.ARCH / M.TECH (YEAR : 2015 – 2016)****B.Tech.**

| Sr. No. | Name of Organisation                  | Disc.ofEngg considered | App.Pay Pac. (Rs. Lakhs per annul | Students Selected |     |    |    |    | Total |
|---------|---------------------------------------|------------------------|-----------------------------------|-------------------|-----|----|----|----|-------|
|         |                                       |                        |                                   | E&CE              | CSE | EE | ME | CE |       |
| 1.      | Drishti-Soft Solution Pvt. Ltd.       | CSE/E&CE               | 16.85                             | -                 | 3   | -  | -  | -  | 03    |
| 2.      | ITC PCPB                              | ME                     | 8.84                              | -                 | -   | -  | 2  | -  | 02    |
| 3.      | Socomo Technologies (Jugnoo)          | CSE                    | 10.8                              | -                 | 3   | -  | -  | -  | 03    |
| 4.      | Tek Systems Glosbal Services          | CSE                    | 6.0                               | -                 | 1   | -  | -  | -  | 01    |
| 5.      | Click Labs. Pvt. Ltd.                 | CSE                    | 4.8                               | -                 | 5   | -  | -  | -  | 05    |
| 6.      | Playbuff Studios Pvt. Ltd.            | CSE/E&CE               | 4.2                               | 5                 | 2   | -  | -  | -  | 07    |
| 7.      | One97 Communication (Paytm)           | CSE                    | 9.0                               | -                 | 1   | -  | -  | -  | 01    |
| 8.      | Future First Info. Services           | ME                     | 7.37                              | -                 | -   | -  | 1  | -  | 01    |
| 9.      | Mu-Sigma Business Solution            | EE/E&CE/CE             | 6.0                               | 5                 | -   | 2  | -  | 2  | 09    |
| 10.     | Sapient Consulting Limited            | E&CE/CSE               | 4.55                              | 5                 | 8   | -  | -  | -  | 13    |
| 11.     | Avanti Learning Centres Pvt. Ltd      | CE/EE/ME               | 4.0                               | -                 | -   | 2  | 1  | 2  | 05    |
| 12.     | GreyB Research Pvt. Ltd.              | EE/E&CE                | 4.36                              | 3                 | -   | 3  | -  | -  | 06    |
| 13.     | Maruti Suzuki India Ltd.              | ME                     | 6.0                               | -                 | -   | -  | 6  | -  | 06    |
| 14.     | L&T Construction Pvt. Ltd.            | CE                     | 5.11                              | -                 | -   | -  | -  | 5  | 05    |
| 15.     | Intellect Design Arena Ltd. (Polaris) | E&CE/CSE               | 5.0                               | 5                 | 5   | -  | -  | -  | 10    |
| 16.     | SAP Labs India                        | CSE                    | 8.25                              | -                 | 11  | -  | -  | -  | 11    |
| 17.     | Analytics Quotients Pvt. Ltd.         | EE/ME/CE/CSE           | 5.5                               | -                 | 4   | 1  | 3  | 1  | 09    |
| 18.     | Bookmyshow Pvt. Ltd.                  | CSE                    | 4.0                               | -                 | 1   | -  | -  | -  | 01    |
| 19.     | UTC Pvt. Ltd., Hyderabad              | CSE                    | 6.2                               | -                 | 6   | -  | -  | -  | 06    |
| 20.     | Samsung Electronics Pvt. Ltd.         | CSE/E&CE               | 12.0                              | 1                 | 4   | -  | -  | -  | 05    |
| 21.     | Verizon Data Services India           | E&CE/CSE               | 5.3                               | 3                 | 1   | -  | -  | -  | 04    |

|     | Pvt.                                |                    |             |    |   |    |    |    |    |
|-----|-------------------------------------|--------------------|-------------|----|---|----|----|----|----|
| 22. | Fleet Managemnt Training Institute  | ME                 | 7.0         | -  | - | -  | 4  | -  | 04 |
| 23. | Godrej & Boyce Mfg. Co. Ltd.        | ME/E&CE            | 5.5         | 1  | - | -  | 6  | -  | 07 |
| 24. | L& T Construction, Chennai          | CE/EE              | 5.11        | 1  | - | 11 | -  | 11 | 23 |
| 25. | Infosys Pvt. Ltd.                   | CE/EE/ME/E&CE /CSE | 3.28        | 16 | 9 | 23 | 18 | 5  | 71 |
| 26. | Tata Consultancy Services           | CE/EE/ME/E&CE /CSE | 3.5         | 20 | 1 | 11 | 12 | 5  | 49 |
| 27. | Car Dekho.com Pvt. Ltd.             | CSE                | 6.1         | -  | 3 | -  | -  | -  | 03 |
| 28. | Alstom                              | CE/ME/E&CE/EE      | 5.0         | 3  | - | 1  | 3  | 1  | 08 |
| 29. | Tech Mahindra                       | CE/EE/ME/E&CE /CSE | <b>3.07</b> | 3  | 4 | 2  | 1  | 1  | 11 |
| 30. | Oracle                              | CE/EE/E&CE/CS E    | 5.63        | 5  | 8 | 3  | -  | -  | 16 |
| 31. | Saint Gobain                        | ME                 | 5.75        | -  | - | -  | 1  | -  | 01 |
| 32. | UHG Pvt. Ltd.                       | CSE/E&CE/EEE       | 9.88        | 3  | 2 | 1  | -  | -  | 06 |
| 33. | Technip                             | CE/ME              | 6.0         | -  | - | -  | 1  | -  | 01 |
| 34. | Noida Power Company Limited         | EE                 | 5.0         | -  | - | 2  | -  | -  | 02 |
| 35. | ISGEC Heavy Engineering Ltd.        | ME                 | 5.0         | -  | - | -  | 1  | -  | 01 |
| 36. | Bombardier Transportation Pvt. Ltd. | E&CE/CSE           | 4.75        | 2  | 2 | -  | -  | -  | 04 |
| 37. | Ashok Leyland Ltd., Chennai         | ME/E&CE            | 3.53        | 1  | - | -  | 2  | -  | 03 |
| 38. | Hero MotoCorp. Ltd.                 | ME                 | 6.5         | -  | - | -  | 2  | -  | 02 |
| 39. | Tata Power Delhi Distribution       | EE                 | 4.25        | -  | - | 8  | -  | -  | 08 |
| 40. | KEC International Ltd.              | EE/CE              | 4.75        | -  | - | 1  | -  | 5  | 06 |
| 41. | Samtel Avionics Limited             | E&CE               | 5.00        | 1  | - | -  | -  | -  | 01 |
| 42. | Sterlite Technologies Ltd.          | EE/E&CE/ME         | 4.5         | 2  | - | 3  | 1  | -  | 06 |
| 43. | HSBC Software Dev. Pvt. Ltd.        | E&CE/CSE           | 12.0        | 1  | 1 | -  | -  | -  | 02 |
| 44. | Reliance JioInfocomm. Ltd.          | CES/E&CE           | 5.0         | 7  | 4 | -  | -  | -  | 11 |



|       |   |            |     |           |            |           |           |           |            |
|-------|---|------------|-----|-----------|------------|-----------|-----------|-----------|------------|
| 45.   | EXL Service (I) Pvt. Ltd.                     | EE/ME/CSE  | 6.0 | -         | 1          | 3         | 1         | -         | 05         |
| 46.   | Bajaj Corp. Ltd.                              | EE/ME      | 4.5 | -         | -          | 1         | 1         | -         | 02         |
| 47.   | MothersonSumiInfotech and Designs Ltd. (MIND) | ECE/CSE/ME | 5.5 | 2         | 2          | -         | 2         | -         | 06         |
| 48.   | Eveready Industries India Ltd.                | ME         | 6.6 | -         | -          | -         | 2         | -         | 02         |
| 49.   | Newgen Software Technologies Ltd., Noida      | CSE        | 5.5 | -         | 6          | -         | -         | -         | 06         |
| 50.   | Code Brew Labs., Chandigarh                   | CSE        | 4.5 | -         | 2          | -         | -         | -         | 02         |
| 51.   | JSW Energy Ltd.                               | EE/ME/CE   | 4.5 |           |            | 5         | 7         | 2         | 14         |
| 52.   | Afcons Infrastructure Ltd.                    | CE         | 4.8 | -         | -          | 1         | 1         | 2         | 04         |
| 53.   | Indiamart InterMesh Ltd.                      | CSE        | 6.0 | -         | 1          | -         | -         | -         | 01         |
| 54.   | CA Technologies                               | CSE        | 8.0 | -         | 3          | -         | -         | -         | 03         |
| Total |   |            |     | <b>95</b> | <b>104</b> | <b>84</b> | <b>79</b> | <b>42</b> | <b>404</b> |

**M.Tech. 2016 batch**

| Sr. No | Name of Organisation           | Disc.ofEngg considered     | App.Pay Pac. (Rs. Lakhs per annum) | Students Selected |     |    |    |    |           |       |        | Total |
|--------|--------------------------------|----------------------------|------------------------------------|-------------------|-----|----|----|----|-----------|-------|--------|-------|
|        |                                |                            |                                    | ECE               | CSE | EE | ME | CE | M at. Sc. | Ar ch | Energy |       |
| 1      | Infosys                        | ECE,CSE,EE,ME, CE & Energy | 3.28                               | 6                 | -   | 8  | 3  | 1  | -         | -     | 2      | 20    |
| 2      | TCS                            | ECE,CSE,ME,EE, CE & Energy | 3.50                               | 7                 | 4   | 5  | 3  | 1  | -         | -     | 3      | 23    |
| 3      | Fiat-Chrysler Pvt. Ltd.        | ME                         | 5.8                                | -                 | -   | -  | 1  | -  | -         | -     | -      | 01    |
| 4      | Code Brew Labs.                | CSE                        | 4.5                                | -                 | 1   | -  | -  | -  | -         | -     | -      | 01    |
| 5      | Parul University               | CSE                        | 5.87                               | -                 | 2   | -  | -  | -  | -         | -     | -      | 02    |
| 6      | TeerthankerMahaveer University | ME.CSE                     | 4.5                                | -                 | 1   | -  | 1  | -  | -         | -     | -      | 02    |
| 7      | Indiamart InterMesh Ltd.       | CSE                        | 6.0                                | -                 | 1   | -  | -  | -  | -         | -     | -      | 01    |
| 8      | SIRDA Group                    | CE/EE/Mat.Sc               | 3.0                                | -                 | -   | 1  | -  | 2  | 1         | -     | -      | 04    |
| 9      | Zydex Industries               | CE                         | 4.25                               | -                 | -   | -  | -  | 2  | -         | -     | -      | 02    |
|        |                                |                            | Total                              | 13                | 9   | 14 | 8  | 6  | 1         | -     | 5      | 56    |

**Ph.D.****YEAR : 2015 – 2016**

| Sr. No. | Name of Organisation            | Disc.of Engg considered      | App. Pay Pac.<br>(Rs. Lakhs per annul | Total |
|---------|---------------------------------|------------------------------|---------------------------------------|-------|
| 1.      | Teerthanker Mahaveer University | Energy & Environmental Engg. | 4.8                                   | 01    |

**Total Nos. of organizations in which students placed from UG = 54 Nos.****Highest Package offered = Rs. 16.85 Lacs PA****Lowest package offered = Rs. 3.07 LacsPA****Average package offered = Rs. 5.00 Lacs PA****Total Nos. of organizations in which students placed from PG = 09 Nos.****Highest Package offered = Rs. 6.00 Lacs PA****Lowest package offered = Rs. 3.00 Lacs PA****Average package offered = Rs. 3.63 Lacs PA****Branch wise B.Tech students:**

| Branch                    | Highest Package offered | Lowest Package Offered | Average package offered |
|---------------------------|-------------------------|------------------------|-------------------------|
| Civil Engineering         | Rs. 6.00 Lacs           | Rs. 3.07 Lacs          | 4.56                    |
| Electrical Engg.          | Rs. 9.88 Lacs           | Rs. 3.07 Lacs          | 4.27                    |
| Electronics & Comm. Engg. | Rs. 12.0 Lacs           | Rs. 3.07 Lacs          | 4.63                    |
| Computer Science          | Rs.16.85 Lacs           | Rs. 3.07 Lacs          | 6.33                    |
| Mechanical Engg.          | Rs. 8.84 Lacs           | Rs. 3.07 Lacs          | 4.73                    |

#### 4.8 Scholarships/Assistance ship:

Scholarship disbursed to the students (B.Tech./Arch.) of this Institute under various scholarship schemes during the year 2015-16 (w.e.f. April,2015 to March,2016). Detail is as under:-

| Sl. No. | Name of the Scholarship  | Name of source from where scholarship funds/grant received                           | Scholarship amount | No. of students got S/shp | Remarks  |
|---------|--|--|--------------------|---------------------------|--|
| 1       | i) Poverty -Cum-Brilliant<br>ii) Brilliance- S/Ship<br>for SC/ST/Gen                         | Himachal Pradesh<br>Director (Technical Education) Sunder Nagar<br>Distt. Mandi (HP) | 3600               | 1                         | Rs.3600/- for Gen 2015-16 Batch student                                |
|         |  |  | 18000              | 5                         | Rs.3600/- renewal for Gen (2nd, 3rd & 4th Year students)               |
|         |  |  | 30000              | 5                         | Rs.6000/- renewal for SC(2nd, 3rd & 4th Year students)                 |
|         |  |  | 24000              | 2                         | Rs.12000/- renewal for SC for 02 years 2010-2011 batch students        |
| 2       | Merit-cum-Means<br>Scholarship   | Govt. of India, MHRD, New Dehli  | 1505400            | 39                        | Rs.38,600/- renewal for 2011-12 & 2012-2013 batch students             |
|         |  |  | 119400             | 6                         | Rs.19,900 renewal(token s/ship) for 2011-12 & 2012-2013 batch students |
|         |  |  | 2895000            | 75                        | Rs.38,600/- renewal for 2013-14 batch students                         |
|         |  |  | 199000             | 10                        | Rs.19,900 renewal(token s/ship) for 2013-14 batch students             |
|         |  |  | 7065600            | 96                        | Rs.73,600/- renewal for 2014-15 batch students                         |
|         |  |  | 187000             | 5                         | Rs.37,400/-renewal(token s/ship) for 2014-15 batch students            |
|         |  |  | 3753600            | 51                        | Rs.73,600/- renewal for 2015-16 batch students                         |
|         |  |  | 523600             | 14                        | Rs.37,400/-renewal(token s/ship) for 2015-16 batch students            |
| 3       | M.Tech. Stipend (for<br>GATE qualified students)   | Govt. of India MHRD, New Delhi   | 11076244           | 192                       | Rs.12400/- each for 2013-14 batch students                             |
|         |  |  | 32751076           | 206                       | Rs.12400/- each for 2014-15 batch students                             |
|         |  |  | 18163603           | 190                       | Rs.12400/-each for 2015-16 batch students                              |
| 4       | Financial Assistance to<br>Ph.D Scholars.  | Govt. of India MHRD, New Delhi   | 8789197            | 35                        | Rs.25,000/- PM   |
|         |  | Govt. of India MHRD, New Delhi<br>(Under TEQIP-II Grant)                             | 4083812            | 22                        | Rs. 18000/- P.M  |
|         |  | Deity Scholarship  | 1774815            | 10                        | Rs.22,500/- PM   |
| 5       | Central Sector Scholarship<br>"Top Class Education"<br>for SC- Category Students<br>(Top-12) | GOI,Ministry of Social Justice &<br>Empowerment, New Delhi                           | 237900             | 3                         | Renewal for final year 2011-12 batch students                          |
|         |  |  | 321971             | 4                         | Renewal for 3rd year 2012-13 batch students                            |
|         |  |  | 323936             | 4                         | Renewal for 2nd year 2013-14 batch students                            |
|         |  |  | 1093800            | 12                        | Fresh for 1st year 2014-15 batch students.                             |
| 6       | Central Sector Scholarship<br>"Top Class Education"  | GOI,Ministry of Tribal Affairs,<br>New Delhi   | 79300              | 1                         | Renewal for final year 2011-12 batch students                          |
|         |  |  | 157208             | 2                         | Renewal for 3rd year 2012-13 batch students                            |

|    |  |  |         |    |  |
|----|--|--|---------|----|--|
|    | for ST -Category Students<br>(Top-05)  |  | 595849  | 5  | Renewal for 2nd year 2013-14 batch students  |
|    |  |  | 719032  | 5  | Fresh for 1st year 2014-15 batch students.   |
| 7  | ACC -Scholarship   | ACC Ltd.Gagal Cement Works<br>Barmana, Bilaspur (HP)                             | 264000  | 22 | Rs. 6000/- each -per semester (i.e. Rs. 12000/- for both semester)-<br>account payee (paid directly student's a/c) |
| 8  | State Scholarship (PMS)-<br>Telangana  | Telangana Govt.  | 51450   | 1  | directly paid to student Account   |
| 9  | State Scholarship (PMS)-<br>Bihar.   | Directorate of Bihar Govt.   | 54100   | 1  | directly paid to student Account   |
| 10 | ONGC-S/ship  | ONGC-Academy Dehradun<br>Uttarakhand   | 60000   | 1  | 2011-12 batch student ( in r/o Mechanical Engg. 3rd year Topper)   |
| 11 | ONGC Merit Scholarship   | ONGC Limited SC/ST Cell Tel<br>Bhawan, Dehradun.                                 | 576000  | 12 | each Rs. 48,000/-  |
| 12 | H.P Board Scholarship  | Secretary H.P. Education Board<br>Dharamsala (HP)                                | 900000  | 90 | All batches Renewal and Fresh Scholarship  |
| 13 | MHRD- (CBSE Board)<br>(under more than 80%<br>scheme)  | Govt. of India MHRD, New Delhi   | 200000  | 20 | 2012-13 to 2015-16 batch students (paid directly student's a/c)  |
| 14 | MHRD- through<br>concerned State Boards<br>(under more than 80%<br>scheme)   | Govt. of India MHRD, New Delhi   | 360000  | 36 | 2011-13 to 2015-16 batch students (paid directly student's a/c)  |
| 15 | Departmental Scholarship   | BSNL   | 24000   | 3  | in r/o 2012-13 to 2015-16 batch students whose parent's BSNL<br>Employee.  |
|    |  | IFFCO  | 36000   | 1  | in r/o 2014-15 batch student   |
|    |  | Railway  | 36000   | 2  | in r/o 2012-13 & 2015-16 batch students  |
|    |  | ITBP   | 24000   | 1  | in r/o 2013-14 batch student   |
|    |  | Raj. School Board  | 16000   | 2  | in r/o 2012-13 & 2015-16 batch students  |
|    |  | PB School Board  | 10000   | 1  | in r/o 2013-14 batch student   |
| 16 | FAEA -Scholarship  | FAEA Scholarship (BHEL-3)C-25<br>Qutab Institutional Area, New Delhi-<br>110 016 | 180000  | 3  | in r/o 2013-14 & 2014-15 batch students  |
| 17 | Post Matric S/ship for<br>SC/ST/OBC (under<br>Centrally sponsoed S/Ship<br>Scheme) (through hp e-pass<br>software) | Director Higher Education<br>Shimla Himachal Pradesh                             | 9959000 | 17 | (2011-12 to 2014-15 batch <b>SC-students</b> ) -paid directly student's<br>a/c                                     |
|    |  |  | 808400  | 12 | (2011-12 to 2014-15 batch <b>ST-students</b> ) -paid directly student's<br>a/c                                     |

|    |  |   |                  |             |   |
|----|--|---|------------------|-------------|---|
| 18 | Indira Gandhi Utkrisht Chhatravarty Yojna (through hp e-pass software) | Director Higher Education Shimla Himachal Pradesh   | 50000            | 5           | ( 2011-12 to 2014-15 batch students) -paid directly student's a/c |
| 19 | Kalpna Chawla Chhatravarty Yojna (through hp e-pass software)          | Director Higher Education Shimla Himachal Pradesh   | 75000            | 5           | ( 2011-12 to 2014-15 batch students) -paid directly student's a/c |
| 20 | SJNV-Silver Jubilee Merit S/Ship                                       | SJNV-Silver Jubilee Merit Scholarship , Shimla Himachal Pradesh H.O   | 24000            | 93          | ( 2012-13 to 2014-15 batch students) -paid directly student's a/c |
|    |  |   | 24000            | 65          | Fresh for 1st year 2015-16 batch students.                        |
| 21 | Prime Minister's Merit Scholarship                                     | Ministry of Defence Kendriya Sainik Board PM Scholarship Scheme West Block IV, Wing V R.K. Puram, New Delhi-66              | 48000            | 2           | Rs.24,000/ for each student-directly paid to student account      |
| 22 | Indian Oil Education Scholarship                                       | Administrator M/s ACE Consultants Indian Oil Scholarship Scheme, B-13, DSIDC Complex, Patparganj, Industrial Area, Delhi-92 | 54000            | 2           | 2012-13 batch student (directly paid student's a/c)               |
| 23 | NTPC Limited   | NTPC Bhawan, SCOPE Complex, 7, Institutional Area, Lodhi Road, New Delhi  | 144000           | 3           | Rs.48000/- each for 2015-16 (Fresh) batch students                |
| 24 | NHFDC- Scholarship for <u>Physically Handicapped students</u>          | National Handicapped Finance & Dev. Corporation (Min.SJ&E,GOI) Red Cross Bhawan Faridabad                                   | 583200           | 8           | 2012-13 to 2015-16 batch students (paid directly student's a/c)   |
|    |  | <b>TOTAL</b>  | <b>111053093</b> | <b>1408</b> |   |

## 5.0 THE BOG, FC & OTHER COMMITTEES

### 5.1 BOARD OF GOVERNORS:

The Board of Governors present incumbents are:

| Sr. No. | Name & address   | Designation |
|---------|--|-------------|
| 1       | Shri Senapathy (Kris) Gopalakrishnan<br>Ex-Executive Vice-Chairman (Infosys)<br>R/o 855, 13th Main, 3rd Block, Koramangala<br>Bangalore-560 034 (Karnataka). | Chairperson |
| 2       | Joint Secretary (Tech)<br>Government of India, Ministry of HRD<br>Department of Secondary & Higher Education<br>Shastri Bhawan, New Delhi—110 015            | Member      |
| 3       | Principal Secretary (TE)<br>To the Government of H.P.<br>Shimla—171 002 (H.P.)   | Member      |
| 4       | Financial Adviser (HRD)<br>Government of India, Ministry of HRD<br>Department of Secondary & Higher<br>Education, Shastri Bhawan, New Delhi—110 015          | Member      |
| 5       | Director (Technical Education)<br>Industrial and Vocational Training<br>Sundernagar, District Mandi, (HP)-174 401  | Member      |
| 6       | Prof. D.K.Bandyopadhyay<br>Former Vice Chancellor<br>Guru Govind Singh Indraprastha University<br>Sector-16-C Dwarka, Delhi-110 079                          | Member      |
| 7       | Prof. Indu Mehrotra<br>Professor, Civil Engineering Department<br>Indian Institute of Technology (IIT)<br>Roorkee-247 667                                    | Member      |
| 8       | Director<br>Indian Institute of Technology Mandi<br>2 <sup>nd</sup> Floor, PWD Rest House<br>Near Bust Stand, Mandi-175001                                   | Member      |
| 9       | Dr. Raman Parti<br>Professor<br>Civil Engineering Department<br>NIT, Hamirpur (HP)   | Member      |
| 10      | Dr. S.S. Katoch<br>Associate Professor<br>Centre for Energy & Environment Engineering<br>NIT Hamirpur (HP)   | Member      |

|    |                                   |                      |
|----|-----------------------------------|----------------------|
| 11 | Director<br>NIT, Hamirpur (HP)    | Ex-officio<br>Member |
| 12 | Registrar<br>NIT, Hamirpur (H.P.) | Secretary            |

## 5.2 FINANCE COMMITTEE

The Finance Committee present incumbents are:

| Sr. No. | Name & address   | Designation |
|---------|--|-------------|
| 1       | Shri Senapathy (Kris) Gopalakrishnan<br>Ex-Executive Vice-Chairman (Infosys)<br>R/o 855, 13th Main, 3rd Block, Koramangala<br>Bangalore-560 034 (Karnataka). | Chairman    |
| 2       | Joint Secretary (Tech)<br>Government of India<br>Ministry of HRD, Department of Secondary &<br>Higher Education, Shastri Bhawan,<br>New Delhi—110 001        | Member      |
| 3       | Principal Secretary (TE)<br>To the Government of H.P., Shimla—171 002 (H.P.)   | Member      |
| 4       | Financial Adviser (HRD)<br>Government of India, Ministry of HRD<br>Department of Secondary & Higher<br>Education, Shastri Bhawan, New Delhi—110 001          | Member      |
| 5       | Director (Technical Education)<br>Industrial and Vocational Training<br>Sundernagar, District Mandi, (HP)-174 401  | Member      |
| 6       | Prof. D.K.Bandyopadhyay<br>Former Vice Chancellor<br>Guru Govind Singh Indraprastha University<br>Sector-16-C Dwarka, Delhi-110 079                          | Member      |
| 7       | Prof. Indu Mehrotra<br>Professor<br>Civil Engineering Department<br>Indian Institute of Technology (IIT)<br>Roorkee-247 667                                  | Member      |
| 8       | Director<br>Indian Institute of Technology Mandi<br>2 <sup>nd</sup> Floor, PWD Rest House,<br>Near Bust Stand, Mandi-175001                                  | Member      |
| 9       | Dr.Raman Parti<br>Professor<br>Civil Engineering Department<br>NIT, Hamirpur (HP)  | Member      |



|    |  |                  |
|----|--|------------------|
| 10 | Prof. Rajnish Srivastava<br>Director<br>NIT, Hamirpur (HP) | Member           |
| 11 | Registrar<br>NIT, Hamirpur (H.P.)                          | Member Secretary |

### 5.3 BUILDING & WORKS COMMITTEE

The Buildings & Works Committee present incumbents are:

| Sr. No. | Name & address  | Designation      |
|---------|---|------------------|
| 1       | Director<br>NIT, Hamirpur (H.P.)  | Chairman         |
| 2       | Director (T)<br>Government of India Ministry of HRD,<br>Department of Higher Education<br>New Delhi—110 001                       | Member           |
| 3       | Superintending Engineer (Electrical)<br>Chandigarh Central Electrical Circle<br>CPWD, Sector-9A, Chandigarh-160 009               | Member           |
| 4       | Dr. A.K. Tripathi<br>Director<br>Ministry of New & Renewable Energy Sources<br>B-14, CGO Complex, Lodhi Road<br>New Delhi—110 003 | Member           |
| 5       | Superintending Engineer<br>8 <sup>th</sup> Circle, HP PWD, Hamirpur (H.P.)  | Member           |
| 6       | Director (IFD)<br>Ministry of HRD, Government of India<br>Department of Higher Education<br>Shastri Bhawan, New Delhi             | Member           |
| 7       | Dean (P&D)<br>National Institute of Technology<br>Hamirpur (H.P.)   | Member           |
| 8       | Superintending Engineer<br>PWD (Electrical Wing)<br>Dharamshala (HP)  | Member           |
| 9       | Director<br>Department of Technical Education<br>Vocational and Industrial Training<br>Sundernagar, Distt. Mandi (HP)             | Member           |
| 10      | Superintending Engineer ( Civil)<br>CPWD Kennedy Cottage Shimla-4   | Member           |
| 11      | Registrar<br>NIT, Hamirpur (H.P.)   | Member Secretary |

#### 5.4 THE SENATE

|     |  |                 |
|-----|--|-----------------|
| a)  | The Director, ex-officio   | Chairman        |
| b)  | The Dy. Director, ex-officio   | Member-(vacant) |
| c)  | Professors appointed or recognized as such by the Institute for imparting instructions in the Institute.                         |                 |
| 1.  | Prof. (Ms.) Geetam Tiwari,<br>Department of Civil Engineering,<br>Indian Institute of Technology,<br>Hauz Kha, New Delhi-110016. | External Member |
| 2.  | Prof. Abhishek Nirjar,<br>B-10, Qutab Institutional Area,<br>New Delhi-110016  | External Member |
| 3.  | Prof. Suneel Kumar Shrivastava ,<br>Professor, Department of Chemistry,<br>Indian Institute of Technology,<br>Kharagpur-721302.  | External Member |
| 4.  | Prof. O.N. Mohanty,<br>Plot 200 Unit3, Kharavela Nagar,<br>Bhubaneswar-751001.   | External Member |
| 5.  | Prof. P.K. Chande, B-36 HIG Colony,<br>A.B. Road, Indore-452008.   | External Member |
| 6.  | Prof. Anil Kumar Dixit,<br>Prof. & Head, CEEE,<br>IIT, Bombay Powai, Mumbai-400076   | External Member |
| 7.  | Dr. Virender Kumar Sarda<br>Prof. CED,<br>NIT, Hamirpur(HP)  | Member          |
| 8.  | Dr. Y.R. Sood,<br>Prof. EED,<br>NIT, Hamirpur (HP).  | Member          |
| 9.  | Dr. A. S. Singha,<br>Prof. in Chemistry<br>NIT, Hamirpur (HP).   | Member          |
| 10. | Dr. Sunand Kumar,<br>Prof. MED,<br>NIT, Hamirpur (HP).   | Member          |
| 11. | Dr. R.K. Sharma,<br>Prof. CED,<br>NIT, Hamirpur (HP).  | Member          |
| 12. | Dr. Anoop Kumar,<br>Prof. in MED,  | Member          |

|     |   |        |
|-----|---|--------|
|     | NIT, Hamirpur (HP).   |        |
| 13. | Dr. Vinod Kapoor,<br>Prof. E&CED,<br>NIT, Hamirpur.                           | Member |
| 14. | Dr. Sushil Chauhan,<br>Prof. EED,<br>NIT, Hamirpur.                           | Member |
| 15. | Dr. Minakshi Jain,<br>Prof. in Architecture,<br>NIT, Hamirpur (HP).           | Member |
| 16. | Dr. N.S. Thakur,<br>Prof. Energy & Environment Engg.,<br>NIT, Hamirpur.       | Member |
| 17. | Dr. S.S. Chandel,<br>Prof. Energy & Environment Engg.,<br>NIT, Hamirpur (HP). | Member |
| 18. | Dr. R.N. Sharma,<br>Prof. EED,<br>NIT, Hamirpur (HP).                         | Member |
| 19. | Dr. Raman Parti,<br>Prof. CED,<br>NIT, Hamirpur (HP).                         | Member |
| 20. | Dr. Piar Chand,<br>Prof. Humanities & Social Science,<br>NIT, Hamirpur (HP).  | Member |
| 21. | Dr. Y. D. Sharma,<br>Prof. in Mathematics.,<br>NIT, Hamirpur.                 | Member |
| 22. | Prof. Sunil,<br>Deptt. of Mathematics,<br>NIT, Hamirpur H.P.                  | Member |
| 23. | Dr. R.K.Dutta,<br>Prof., CED,<br>NIT, Hamirpur(HP).                           | Member |
| 24. | Dr. Ashwani Chandel   | Member |

|     |  |                 |
|-----|--|-----------------|
|     | Prof. EED<br>NIT Hamirpur  |                 |
| 25. | Dr. Bhanu Marwaha,<br>Prof. Architecture Deptt.,<br>NIT, Hamirpur(HP). | Member          |
| 26. | Dr. Rajeevan Chandel,<br>Prof. E&CED.<br>NIT Hamirpur                  | Member          |
| 27. | Dr. Ravinder Nath Sharma,<br>Chairman, SPGC<br>NIT,Hamirpur            | Special Invitee |
| 28. | Dr. Ashwani Kumar<br>Chairman, SUGC<br>NIT Hamirpur                    | Special Invitee |
| 29. | Sh. Desh Raj Rana<br>Head, E&CED<br>NIT, Hamirpur H.P.                 | Special Invitee |
| 30. | Dr. I.P. Singh<br>Head, Arch. Deptt.,<br>NIT Hamirpur H.P.             | Special Invitee |
| 31. | Dr. S.S. Katoch,<br>Head, CEEE<br>NIT, Hamirpur (HP).                  | Special Invitee |
| 32. | Dr. Pardeep Kumar<br>Head, CED,<br>NIT,Hamirpur.                       | Special Invitee |
| 33. | Dr. Narottam Chand<br>Head, CSED,<br>NIT, Hamirpur(HP).                | Special Invitee |
| 34. | Dr. Kuldeep Kumar Sharma<br>Head, Physics Deptt.<br>NIT, Hamirpur(HP). | Special Invitee |
| 35. | Dr. Pamita Awasthi<br>Head, Chemistry Deptt.,<br>NIT Hamirpur          | Special Invitee |

|     |  |                  |
|-----|--|------------------|
| 36. | Dr. Rajiv Kumar Sharma<br>Head, MED,<br>NIT Hamirpur | Special Invitee  |
| 37. | Dr. Somesh Sharma<br>Head, DOMS,<br>NIT Hamirpur     | Special Invitee  |
| 38. | Dr. Vishal Singh<br>Head, CMSE<br>NIT Hamirpur       | Special Invitee  |
| 39. | Registrar<br>NIT Hamirpur H.P.                       | Member Secretary |

## 5.5 Other Committee:

### Senate Undergraduate Committee (SUGC)

|     |  |          |
|-----|--|----------|
| 1.  | Dr. Ashwani Rana                             | Chairman |
| 2.  | Dean (Academic)                              | Member   |
| 3.  | Chairman (SPGC)                              | Member   |
| 4.  | Convener (DUGC) MED                          | Member   |
| 5.  | Convener (DUGC) CED                          | Member   |
| 6.  | Convener (DUGC) EED                          | Member   |
| 7.  | Convener (DUGC) E&CED                        | Member   |
| 8.  | Convener (DUGC) CS&ED                        | Member   |
| 9.  | Convener (DUGC) Physics                      | Member   |
| 10. | Convener (DUGC) Mathematics                  | Member   |
| 11. | Convener (DUGC) Chemistry                    | Member   |
| 12. | Convener (DUGC) Humanities & Social Sciences | Member   |
| 13. | Convener (DUGC) Material Science & Engg.     | Member   |
| 14. | Convener (DUGC) Energy & Environment Engg.   | Member   |
| 15. | Convener (DUGC) Chemical Engineering         | Member   |
| 16. | Convener (DUGC) Architecture                 | Member   |

### Former Chairman (SUGC)

|                    |        |
|--------------------|--------|
| 1. Dr. T.P. Sharma | Member |
|--------------------|--------|

### Senate Representative

|                             |        |
|-----------------------------|--------|
| 1. Prof. R.K. Sharma, CED   | Member |
| 2. Prof. Sunil, Mathematics | Member |

### Under Graduate Students

|   |        |
|---|--------|
| 1. Mr. Aditya Bindra<br>Roll No. 12102, CED     | Member |
| 2. Mr. Nishant Kapatia<br>Roll No. 11480, E&CED | Member |

### Senate Postgraduate Committee (SPGC)

|                             |          |
|-----------------------------|----------|
| 1. Dr. Ravinder Nath Sharma | Chairman |
| 2. Dean (Academic)          | Member   |

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|     |  |        |
|-----|--|--------|
| 3.  | Chairman (SUGC)                              | Member |
| 4.  | Convener (DPGC) MED                          | Member |
| 5.  | Convener (DPGC) CED                          | Member |
| 6.  | Convener (DPGC) EED                          | Member |
| 7.  | Convener (DPGC) E&CED                        | Member |
| 8.  | Convener (DPGC) CS&ED                        | Member |
| 9.  | Convener (DPGC) Physics                      | Member |
| 10. | Convener (DPGC) Mathematics                  | Member |
| 11. | Convener (DPGC) Chemistry                    | Member |
| 12. | Convener (DPGC) Humanities & Social Sciences | Member |
| 13. | Convener (DPGC) Material Science & Engg.     | Member |
| 14. | Convener (DPGC) Energy & Environment Engg.   | Member |
| 15. | Convener (DPGC) Architecture                 | Member |

**Former Chairman (SPGC)**

|    |                    |        |
|----|--------------------|--------|
| 1. | Dr. Narottam Chand | Member |
|----|--------------------|--------|

**Senate Representative**

|    |                      |        |
|----|----------------------|--------|
| 1. | Prof. Sushil Chauhan | Member |
|----|----------------------|--------|

**Post Graduate Students**

|    |  |        |
|----|--|--------|
| 1. | Mr. Mohanbir Singh<br>Roll No. 13M425, E&CED                                     | Member |
| 2. | Mr. Jagdeep Singh<br>Ph. D. Research Scholar,<br>Dept. of Mechanical Engineering | Member |

## 6.0 CENTRAL FACILITIES SERVICES:

### 6.1 Computer Services Centre:

**OIC** : Shri Anil Kumar

Scientific Officer : Sh. Jagdish Verma  
 Scientific Officer : Sh. Ashwani Kumar Sharma  
 Hardware Engineer (SG-II) : Sh. Ravi Singh  
 Senior Technician : Sh. Rakesh Sharma

#### Objectives

Computer Centre at NIT Hamirpur has been established with following objectives:

- To provide a Central Computing/Communication facility with network infrastructure for all the students, faculty members and staff of the institute.
- To collect/analyze the computing requirements of the departments and design, procure, deploy and maintain the solutions.
- To assist students, faculty and research scholars of all departments in the institute in computerizing their activities.
- To conduct short term courses for the students and staff of the institute.
- To design, maintain and administer campus-wide network including Internet and allied services.
- To design and implement office automation modules in-house as per the Institute requirement.
- To provide communication service throughout the campus.
- To provide consultancy in ICT related areas.

#### (a) Equipment acquired:

| Sr. No. | Name of asset/Equipment  | Quantity           |
|---------|--|--------------------|
| 1       | HP Pro. Book 445 (Laptops)   | 90 Nos.            |
| 2       | (i) Quick Heal Antivirus Pro2012<br>(@ 350/- each)+CST@5%  | 90 Nos.            |
|         | (ii) HP Essential Top Load Case (@1000/-)<br>)+CST @5%   | 90 Nos.            |
| 3       | AADHAR enabled Biometric Attendance System (AEBAS)   |                    |
|         | (i) KONFIDANCE/WAP<br>Wi-Fi Access Point.  | 22 Nos.            |
|         | (ii) KONFIDANCE/KONFIDANCEU <sub>2</sub><br>Integrated Attendance Device<br>Type-1, Android Tablet and Single<br>Fingerprint Scanner Device. | 22 Nos.            |
| 4       | Networking Items:-   |                    |
|         | (i) Wireless Access Points (D-Link)  | 03 Nos. (@ 2850/-) |
|         | (ii) PoE Switch-SFP 300-24 P (CISCO)   | 01 No. (@14800/-)  |
|         | (iii) CAT 6 Cable (305 Meter D-Link)   | 01 No. (@6450/-)   |



|  |                     |
|--|---------------------|
| (iv) SFP (Minigibic)-Single Mode   | 02 Nos. (@2800/-)   |
| (v) OFC Cable- (D-Link)  | 200 Meters (@33)    |
| (vi) Fiber Patch Cords (LC to LC)-<br>Single Mode                                | 02 Nos. (@650/-)    |
| (vii) Labour Charges for Fiber<br>Installation and Termination of<br>above work. | 01 Lot (Rs. 5000/-) |

## 2 Detail of the Laboratories:

### Sr. No. Name of the Laboratory

- |   |                        |
|---|------------------------|
| 1 | Internet Laboratory    |
| 2 | Research Laboratory    |
| 3 | Programming Laboratory |
| 4 | Language Laboratory    |

## 6.2 WORKSHOP

### Staff:

Dr. P.K. Sood  
Ph. D  
Workshop Superintendent

## 6.3 LIBRARY:

- |     |  |   |
|-----|--|---|
| 1.  | Number of books available up to 31.03.2016   | 85,796  |
| 2.  | Number of books added during the year  | 3,857   |
| 3.  | Expenditure on purchase of books during the year   | Rs. 29,08,966-00  |
| 4.  | E-Journals subscribed through INDEST:  |   |
|     | A. ACM Digital Library   |   |
|     | B. ASCE Library  |   |
|     | C. ASME Digital Collection   |   |
| 5.  | E-Journals Subscribed by Institute:  |   |
|     | A. IEEE Xplore Digital Library   |   |
|     | B. Taylor and Francis Library  |   |
|     | C. Science Direct (5 Subject Collection: Chemistry, Computer Science, Engineering, Mathamatics, Physics. |   |
|     | D. Springer Link   |   |
| 6.  | Other E-Resources Subscribed by Institute:   |   |
|     | A. Databases   | :DELNET, J-Gate   |
|     | B. Standards   | :(i) ASTM Standards (Full Package)<br>(ii) DVDs of India Standard Codes<br>(for Civil Engineering Department) |
| 7.  | Number of print journals   | : 23  |
| 8.  | Number of Foreign journal  | : 09  |
| 9.  | Expenditure on Print Journal   | : Rs. 15,82,543-00  |
| 10. | Any other facilities added   | :   |
|     | A. RFID facility for check-in, check-Out, renewal etc.   |   |
|     | B. Institutional Repository for archiving  |   |

- Research output.
- C. e-Thesis repository for storing thesis in digital format.
- D. SMS based notification service.
- E. Wi-Fi services to access e-resources

#### 6.4 HOSPITAL:

##### 1 Background:

The medical facilities are available free of cost to the students and staff. The OPD timings are 09:00 AM to 05:30 PM (Monday to Friday) and 05:00 PM to 08:00 PM (Monday to Sunday). The doctor on emergency duty is available 24 hours round the clock. Ambulance is available on a telephone call 110.

|    |   |   |                  |
|----|---|---|------------------|
| 2  | Total patients treated annually                   | : | About 10,090     |
| 3  | No. of outdoor attendance                         | : | Nil              |
| 4. | No. of Indoor attendance                          | : | 15 Nos           |
| 4  | No. of referral cases for outside treatment       | : | 350 (Approx.)    |
| 5  | The working hours of the dispensary are as follow | : |                  |
|    | 09:00 AM to 08:00 PM                              | : | Monday to Friday |
|    | 10:00 AM to 08:00 PM                              | : | Saturday         |
|    | 4.00 AM to 12 Noon and                            | : | Sunday           |
|    | 3.00 PM to 8.00 PM                                | : |                  |

#### 6.5 POST OFFICE, BANK, SHOPPING CENTRE & OTHER FACILITIES:

To facilitate all financial transactions, a fully computerized branch of State Bank of India functions in the Institute premises. Similarly, for the convenience of the students, a Post Office is operating in the campus. It provides saving bank facility and has provision of money orders, postal orders and postage stamps etc.

#### 6.6 PHYSICAL FACILITIES & GAMES AND SPORTS FACILITIES:



**Background:**

National Institute of Technology Hamirpur is one of the premier technical institute in Northern India. The Institute presently provides sports facilities for both indoor and outdoor activities. A standard size stadium with the provision of pavilion has been provided to the students where the games like Cricket, Football, Hockey, Basket Ball Lawn Tennis and Athletics are played. The facilities of separate Basket ball and lawn tennis court with the provision of flood lights also have been provided to our students. We have got the provision of indoor hall for Badminton and other indoor games and gymnasium facilities with latest physical fitness machines for both boys and girls separately. The facilities of Billiards and pool table for our students and staff have also been provided.

The institute maintains excellent fitness facilities and playground with the following provisions:-

|    |  |  |       |  |
|----|--|--|-------|--|
| 1  | Athletics Track and Field  | 200m track(grass)                                    | 1 No. | There is one ground for all these 04 games |
| 2  | Football ground  | Without floodlight                                   | 1 No. |  |
| 3  | Cricket ground   | Without floodlight                                   | 1 No. |  |
| 4  | Hockey ground  | Without floodlight                                   | 1 No. |  |
| 5  | Volleyball court   | With flood light                                     | 2 No. |  |
| 6  | Basketball court   | With flood light                                     | 1 No. |  |
| 7  | Lawn Tennis court  | With floodlight                                      | 3 No. | Synthetic                                  |
| 8  | Kabaddi Court  | --   | --    | --   |
| 9  | Badminton court  | With floodlight                                      | 1 No. |  |
| 10 | Gymnasium  | Well-equipped Gymnasium are available inside Hostels |       |  |
| 11 | Indoor games facilities are available inside hostel compounds.<br>(Table tennis, Carom, Chess, outdoor badminton court, etc.)<br>There is an attractive stadium with the provision of pavilion for 1500 spectators |  |       |  |
| 12 | Open Air Theater   |  |       |  |

## 6.7 OTHER FACILITIES LIKE HOSTELS, MESSSES, STAFF QUARTERS, ADMINISTRATION & TELEPHONE EXCHANGE:

The Hostel Management Council comprising of Hostel/Mess Attendant, Mess Manager, Assistant Warden, Warden and student's representatives headed by Chief Warden of hostels decide the Management of hostel facilities. Major issues are decided by Director. The existing Hostel Management Council members are as under:-

**HOSTEL & MESS**

| Sr. No. | Name of Warden   | Designation (CW/AW and GS) | Name of Hostel          |
|---------|------------------|----------------------------|-------------------------|
| 1.      | Dr. Ashok Kumar  | Chief warden (Hostels)     | All Hostels             |
| 2.      | Dr. R.K.Jamalta  | Warden                     | Mani Mahesh Boys Hostel |
| 3.      | Dr. Suket Kumar  | Assistant Warden           |                         |
| 4.      | Dr.O.P.Rahi      | Warden                     | Dhouladhar Boys Hostel  |
| 5.      | Dr. Rohit Dhiman | Assistant Warden           |                         |

|     |                        |                  |                         |
|-----|------------------------|------------------|-------------------------|
| 6.  | Er. Sunil Sharma       | Warden           | Satpura Hostel          |
| 7.  | Dr. Suket Kumar        | Assistant Warden |                         |
| 8.  | Dr. Vimal Sharma       | Warden           | Kailash Boys Hostel     |
| 9.  | Er. Amit Kaul          | Assistant Warden |                         |
| 10. | Er. Puneet Sharma      | Assistant Warden | Vindhyachal Boys Hostel |
| 11. | Er. Sunil Sharma       | Warden           |                         |
| 12. | Er. Philemon Daniel    | Assistant Warden | Neelkanth Boys Hostel   |
| 13. | Dr. Prashant Kumar     | Warden           |                         |
| 14. | Er. Rajeev Kumar       | Assistant Warden | Himadri Hostel          |
| 15. | Ar. Amitava Sarkar     | Assistant Warden |                         |
| 16. | Dr. Vijay Kumar Bansal | Warden           | Parvati Girls Hostel    |
| 17. | Dr. Mohit Pant         | Assistant Warden |                         |
| 18. | Mr. Jagdish Verma      | Assistant Warden | Ambika Girls Hostel     |
| 19. | Dr. Pamita Awasthi     | Warden           |                         |
| 20. | Ar. Vandana Sharma     | Assistant Warden | Himgiri Hostel          |
| 21. | Dr. Gargi Khanna       | Warden           |                         |
| 22. | Ar. Venu Shree         | Assistant Warden |                         |
| 23. | Er. Pardeep Singh      | Warden           |                         |
| 24. | Dr. K.Nallasivam       | Assistant Warden |                         |
| 25. | Er. Anil Kumar         | Assistant Warden |                         |

**There are seven Boys Hostels and two Girls Hostels available in the institute. The statics of borders of each hostel are as under:-**

| Name of the Hostel      | Type (Single/ Double/ 03 Seated/ 04 seated/ 06 seated)         | Capacity |
|-------------------------|--|----------|
| Kailash Boys Hostel     | 03 seated  | 612      |
| Vindhyachal Boys Hostel | Single seated  | 170      |
| Satpura Hostel          | Triplet  | 325      |
| Mani Mahesh Boys Hostel | Single seated  | 167      |
| Dhouladhar Boys Hostel  | Single seated- 86<br>03 seated- 23                             | 163      |
| Neelkanth Boys Hostel   | Double seated-03<br>03 seated- 145                             | 441      |
| Himadri Hostel          | Triplet  | 597      |
| Parvati Girls Hostel    | Single seated-54<br>03 seated-36                               | 162      |
| Ambika Girls Hostel     | Doublet- 25<br>03 Seated- 26<br>04 Seated- 16<br>05 Seated- 25 | 267      |

**Hostel Management Policy:-**

- National Institute of Technology, Hamirpur is a fully residential institute. All the students admitted in the institute should reside in hostels. However, with special permission of higher authority, students may be permitted to stay outside.
- Each hostel is having one Warden, at least one Asstt. Warden, Mess Manager and Hostel/ Mess Attendant who will look after the day to day affairs of the boarders.
- The top most hostel authority next to Director is Chief Warden (H) who coordinates these activities and is authorized for all financial transaction.
- There is a separate Bank Account of each hostel in the name of the Warden of concerned hostel and one is in the name of Chief Warden (H). Students will deposit their dues at concerned Hostel Warden Account and later on Hostel Establishment Fund, Ambulance Fund and Mess Security is transferred to the Chief Warden (H).
- The mess account bills contain only the mess advance to start with, which will be topped at the end of each semester.
- At the end of every semester there is complete reconciliation.
- Hostel Establishment Fund, Common Room Fund, Ambulance Fund is collected from the students once in a year and which will be transferred to the Chief Warden Office except Common Room Fund. The Common Room Fund is used by the Warden for the welfare of the concerned Hostel.
- The Head Cook, Cook and Mess Workers are employed by the Chief Warden (H) for all the hostels and their monthly salary is included in the monthly mess bill of the boarders of concerned hostel.
- The salary of Mess Staff is paid by the Warden of concerned hostel through their Bank Account opened in the SBI NIT Hamirpur branch.
- All expenses like electricity bill, water charges etc. are divided among all the boarders equally.
- For PG and Research Students mess bill is charged for all 12 months unless they are specially permitted by the authority to stay outside for a specific period.
- No mess rebate is allowed to any boarder unless specially permitted by the Warden for specific reason, as per Hostel Rules.
- No mess bill will be charged to the UG students during vacation unless they are specially permitted to stay during vacation, but salary charges of mess workers, electricity bill, water charges stationery charges will be payable for the 12 months.
- For UG, PG and Ph. D regular students including 1<sup>st</sup> year, the Establishment charges, ambulance charges and common room charges are collected from July 1<sup>st</sup> once in a year.
- Each hostel maintains its Bank Account and all the bills of grocery, ration, milk, gas, vegetables, Liveries disbursement of wages (including festival allowance) to mess workers as well as electricity/ water charges fully paid by the Warden of concerned hostel.
- The accounts of all the hostels are duly audited by an external agency at least twice in a year.

**The Hostel of Residence:-**

The institute is essentially residential institute and provides hostel accommodation for students. Separate hostel accommodation is available for girl students. It is mandatory for all the students to stay in the hostel. However, a student may be permitted on application in prescribed form during beginning of each semester to live with his/ her parents or local

guardian at Hamirpur (HP). Students permitted to stay outside hostel are exempted from payment of mess charges, electricity charges and water charges under Hostel Fee. The name, full address, office and residence and telephone number, designation and willingness of local guardian have to be furnished at the time of admission. The room allotment of the hostel is done on the basis of merit through software.

## PLINTH AREA OF NIT BUILDING

| Sr. No. | Description                               | Number   | Plinth area (approx.in sq. Ft. after renovation) | Total area sq. Ft. | Equivalent area in Sq. MT. |
|---------|---|--|--|--------------------|----------------------------|
|         | OTRS                                      |  |  |                    |                            |
| 1       | Type-I                                    | 20   | 345.36   | 3907.92            | 642.00                     |
| 2       | Type-II                                   | 82   | 688.51   | 56457.72           | 5247.00                    |
| 3       | Type-III                                  | 54   | 907.82   | 49022.56           | 4556.00                    |
| 4       | Type-IV                                   | 48   | 1341.41  | 34387.68           | 5984.00                    |
| 5       | Type-V                                    | 16   | 1985.22  | 31763.52           | 2952.00                    |
| 6       | Duplex Type-VI                            | 4  | 269.22   | 1076.88            | 100.00                     |
| 7       | Director Residence                        | 1  | 3281.80  | 3281.80            | 305.00                     |
| 8       | Garbage                                   | 97   | 134.50   | 13046.50           | 1213.00                    |
| 9       | Faculty residence under construction      | 48   | 1827.85  | 87736.80           | 8154.00                    |
| 10      | Non-teaching residence under construction | 16   | 1827.35  | 29245.60           | 2718.00                    |
| B       | Hostel wise Area                          | 1  | 213457.68  | 213457.68          | 196418.00                  |
| C       | Academic Area                             | 1  | 856313.08  | 856313.08          | 79583.00                   |
|         |   |  |  | Total              | 307872.00                  |
|         |   | Gross plinth area=Qtrs area+Hostel area +Academic area |  |                    |                            |
|         |   | Total=307872.00 Sq.m 76.07Acre                         |  |                    |                            |
|         |   | Total developed area= Plinth area+garden + Road etc.   |  |                    |                            |
|         |   | Total 110.49 Acre =447157.00 Sq.m                      |  |                    |                            |







# Annual Accounts

## 2015-16

## AUDIT CERTIFICATE

### **Separate Audit Report of the Comptroller & Auditor General of India on the Account of National Institute Technology, Hamirpur for the year ended 31 March 2016**

- 1 We have audited the Balance Sheet of National Institute of Technology ,Hamirpur As at 31 March 2016, Income & Expenditure Account and Receipts & Payments Account for the year ended on that date under Section 19(2) of the Comptroller & Auditor General 's (Duties ,Power & Conditions of Service )Act ,1971 read with Section 22 of the National Institutes of Technology Act,2007 There financial Statements are the responsibility of the Institutes management. Our responsibility is to express an opinion on these financial statement based on our audit.
2. This Separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to Classification ,conformity with the best accounting practices, accounting standards And disclosure norms, etc. Audit observations on financial with regard To compliance with the Law, Rules & Regulations (Propriety and Regularity) and Efficiency-cum-performance aspects, etc., if any ,are reported through Inspection Reports /CAG's audit in Reports separately.
3. We have conducted our audit in accordance with auditing standards generally Accepted in India .These standards require that we plan and perform the audit to obtain reasonable assurance about whether financial statement are free from material misstatements. An audit includes examining, on test basis, evidences supporting the amounts and disclosure in the financial statement. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statement. We believe that our audit provides a reasonable basis for our opinion.
4. Based on our audit, we report that:
  - i. We have obtained all the information and explanations, Which to the best of our Knowledge and belief were necessary for the purpose of audit;
  - ii. The Balance Sheet and Income and Expenditure Account/Receipt and payment Account dealt with by this Report have been drawn up the format prescribed by the Ministry of Human Resources Development ,Government of India vide order No 29-4/2012-FD dated 17 April 2015.
  - iii.) In our opinion, proper books of accounts and other relevant records have been maintained by National Institute of Technology, Hamirpur in so far as it appears from our examination of such books.
  - iv) We further report that:

**A. Balance Sheet****A.1 Schedule -3- Current Liabilities and Provisions****A.1.1. Receipts against sponsored projects (Sr. No.6 (b)): Rs.3.60 crore**

Above include Consultancy income of the Institute generated by way of providing consultancy services, testing of the samples and construction materials amounting to Rs. 2.79 crore (Rs .2.27 crore earned up to the year 2014-15 and Rs. 51.81 lakh earned during the year 2015-16). This should have been taken as income of the Institute instead of liability .This has resulted in overstatementof liabilities and understatement of Capital Fund by Rs. 2.79 crore.

**A1.2. Provision Rs. 77.78 lakh**

Above does not include provision for Rs. 14.00 lakh in respect of security charges for the month of March 2016 paid to M/s Security & Intelligence Service s (India) Limited Chandigarh in May 2016. This has resulted in understatement of Current Liabilities & Provisions as well as expenditure for the year 2015-16 and overstatement of Corpus Fund by Rs. 14.00 lakh.

**A.2. Fixed Assets Schedule 4A****Buildings****Addition: Rs. 63.74 crore**

Above includes four building which have been completed and handed over by the executing agency during in the months of March April, May and July 2014 and an expenditure of Rs. 58.52 crore have been booked on these works upto the last Running Account Bill. Since the constructionwork was completed in 2014-15, these should have been capitalized from the year 2014-15 but the same has been done in the financial year 2015-16. Not capitalized the capital work in progress in financial year 2014-15 resulted in overstatement of Building by Rs.1.17 crore (Depreciation chargeable during 2014-15, Rs.58.52 crore x2 per cent) which also resulted in overstatement of Capital fund by like amount.

**B. Income & Expenditure Account****Academic Expenses (Schedule 16): Rs. 8.95 crore**

Above includes an expenditure of Rs. 31.04 lakh relating to Print Journals & Publication (Rs. 18.47 lakh ) and e-journals (Rs. 12.57 lakh) incurred during the year 2015-16 which was required to be included in the Fixed Assets under the head Library Books & Scientific Journals and head Intangible Assets, respectively and depreciation was chargeable accordingly. Thus, expenditure has been overstated and surplus for the year 2015-16 has been understated by Rs. 24.16 lakh (total value of journals Rs. 34.04 lakh less depreciation of Rs. 6.88lakh<sup>1</sup>) and Library Books & Scientific Journals and E-Journals have been understated by Rs. 16.62 lakh and Rs. 7.54 lakh, respectively.

**C. General****C.1. Net impact of Audit comments on the Annual Accounts.**

Net impact of Audit comments on the Annual Accounts of National Institute of Technology, Hamirpur for the year ending 31 March 2016 is as under:

- i Assets overstated by Rs. 92.89 lakh
- ii Liabilities overstated by Rs. 2.65 crore .
- iii Capital Fund understated by the Rs. 1.73 crore.
- iv Surplus for the year overstated by Rs. 61.97 lakh.

**C.2.** The format of Accounts for Central Higher Educational Institutions and AS-15 of ICAI provide that provision for retirement benefits is to be made on Actuarial Valuation Method. Though the Institute has made provision for retirement benefits in the accounts for the financial 2015-16, the same has not been made on Actuarial valuation basis.

**C.3.** Schedule 3©: Unutilised Grants from UGC, Government of India and state Governments has not been prepared in the new Format of Accounts for Central Higher Educational Institutions prescribed by the MHRD and unutilized grant was not shown as liability in Current Liabilities and Provisions Schedule.

**C.4.** Accounts have not been page-numbered.

-----  
 1 Depreciation on Journals & Publication: Rs.1.85 lakh (Rs. 18.47 lakh x 10%) + depreciation on e-journals: Rs. 5.03 lakh (Rs. 12.57 lakh x 40%)

**D. Grants-in-aid**


Out of total available funds of Rs. 64.86 crore , ( Plan: Rs34.48 crore, Non Plan: Rs.30.38 crore) including previous year balance of Rs. 12.86 crore ( Plan: Rs. 10.48 crore and Non Plan: Rs.2.38 crore) and grant received during the year Rs. 52.00 crore (Plan :Rs.24.00 crore ,Non Plan Rs. 28.00 crore ), the Institute could utilize a sum of Rs. 59.32 crore (Plan :Rs. 27.37 crore, Non Plan : Rs.31.95 crore) leaving an unspent balance of Rs. 5.54 crore (Plan : Rs. 7.11 crore, Non Plan: Rs. (-) 1.57 crore).

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

vi) In our opinion and to the best of our information and according to the explanations given to us , the said financial statements read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters stated above and other matters mentioned in Annexure to this Audit Report give a true and fair view in conformity with accounting principles generally accepted in India:

- a. In so far as it relates to the Balance Sheet, of the state of affairs of the National Institute of Technology ,Hamirpur as a 31<sup>st</sup> March 2016; and
- b. In so far relates to Income &Expenditure Account, of the surplus for the year ended on that date.

**For and on behalf of the C & AG of India**



**Principal Director of Audit (Central),**

**Chandigarh**

**Place: Chandigarh**

**Date:**

**Annexure to Audit Report**

**1. Adequacy of Internal Audit System.**

The system of pre-audit of payments is in existence in the Institute. Internal Audit for the year 2015-16 has been conducted by the Chartered Accountant but their report is awaited.

**2. Adequacy on Internal Control System**

Internal control system is considered inadequate in view of the following:

- i) The institute has not prepared its Accounting Manual.
- ii) Fixed Assets registers have been maintained by the various departments of the Institute, however, a centralized Fixed Assets Register for exercising control over inter-department transfers has not been maintained.
- iii) As prescribed in Manual of the Institute, four meetings of Board of Governors, Finance Committee and Building & Works Committee are required to be held in a year. However, against required four number of meetings, only two meetings of Board of Governors and Finance Committee and one meeting of Building & Works Committee were held during the financial year 2015-16.

**3. Physical verification of Fixed Assets**

Physical Verification of Fixed Assets for the year 2015-16 had been conducted but Physical Verification reports were not shown to audit.

**4. Physical verification of Inventory**

Physical Verification of Inventory for the year 2015-16 had been conducted but Physical Verification reports were not shown to audit.

**5. Regularity in payment of Statutory Dues**

The payment of statutory dues has been regularly made by the Institute. No statutory dues were outstanding for more than six months.

  
**Deputy Director**

**NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)**  
**BALANCE SHEET AS AT 31st March, 2016**

|  |          | (Amount-----Rs.)        |                         |
|--|----------|-------------------------|-------------------------|
|  | Schedule | Current Year            | Previous Year           |
| <b><u>SOURCES OF FUNDS</u></b>                   |          |                         |                         |
| CORPUS/CAPITAL FUND                              | 1        | 3,285,576,009.75        | 3,080,625,630.79        |
| DESIGNATED/EARMARKED/ENDOWMENT FUNDS             | 2        | 19,155,244.08           | 15,188,778.08           |
| CURRENT LIABILITIES AND PROVISIONS               | 3        | 387,914,491.09          | 357,798,575.72          |
| <b>TOTAL</b>                                     |          | <b>3,692,645,744.92</b> | <b>3,453,612,984.59</b> |
| <b>APPLICATION OF FUNDS</b>                      |          |                         |                         |
| <b><u>FIXED ASSETS</u></b>                       | 4        |                         |                         |
| Tangible Assets                                  |          | 2,242,767,380.58        | 1,660,415,469.11        |
| Intangible Assets                                |          | 0.00                    | 0.00                    |
| Capital Works-In-Progress                        |          | 343,557,291.00          | 865,718,181.00          |
| <b>INVESTMENT FROM EARMARKED/ENDOWMENT FUNDS</b> | 5        |                         |                         |
| Long Term  |          |                         |                         |
| Short Term                                       |          |                         |                         |
| <b>INVESTMENT - OTHERS</b>                       | 6        | 0.00                    | 0.00                    |
| <b>CURRENT ASSETS</b>                            | 7        | 929,807,220.10          | 746,430,653.24          |
| <b>LOANS, ADVANCES &amp; DEPOSITS</b>            | 8        | 176,513,853.24          | 181,048,681.24          |
| <b>TOTAL</b>                                     |          | <b>3,692,645,744.92</b> | <b>3,453,612,984.59</b> |
| SIGNIFICANT ACCOUNTING POLICIES                  | 23       |                         |                         |
| CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS     | 24       |                         |                         |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

**REGISTRAR**  
**NIT, HAMIRPUR (H.P)**

**DIRECTOR**  
**NIT, HAMIRPUR (H.P)**



**NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE PERIOD/YEAR ENDED 31/03/2016**

(Amount --Rs.)

| <b>INCOME</b>  | <b>Schedule</b> | <b>Current Year</b>   | <b>Previous Year</b>  |
|--|-----------------|-----------------------|-----------------------|
| ACADEMIC RECEIPTS                                    | 9               | 155,567,432.49        | 117,511,458.40        |
| GRANT & SUBSIDIES                                    | 10              | 425,000,000.00        | 270,000,000.00        |
| INCOME FROM INVESTMENTS                              | 11              | 24,701,404.00         | 17,753,583.00         |
| INTEREST EARNED                                      | 12              | 4,489,643.00          | 6,899,957.00          |
| OTHER INCOME   | 13              | 17,080,728.00         | 16,140,981.03         |
| PRIOR PERIOD INCOME                                  | 14              |                       |                       |
| <b>TOTAL(A)</b>                                      |                 | <b>626,839,207.49</b> | <b>428,305,979.43</b> |
| <b>EXPENDITURE</b>                                   |                 |                       |                       |
| STAFF PAYMENT & BENEFITS<br>(ESTABLISHMENT EXPENSES) | 15              | 325,581,115.00        | 307,075,568.00        |
| ACADEMIC EXPENSES                                    | 16              | 89,500,216.00         | 58,589,977.00         |
| ADMINSTRATIVE AND GENERAL EXPENSES                   | 17              | 41,707,033.00         | 42,508,335.00         |
| TRANSPORTATION EXPENSES                              | 18              | 1,750,067.00          | 1,713,066.00          |
| REPAIR & MAINTENANCE                                 | 19              | 40,672,742.00         | 41,636,664.00         |
| FINANCE COSTS  | 20              | 229.00                | 4,806.00              |

|  |    |                       |                        |
|--|----|-----------------------|------------------------|
| DEPRECIATION   | 4  | 94,778,059.53         | 160,964,586.55         |
| OTHER EXPENSES   | 21 | 0.00                  | 0.00                   |
| PRIOR PERIOD EXPENSES  | 22 | 611,358.00            | 0.00                   |
| Depreciation (Net Total at the year-end - corresponding to schedule 4) |    |                       |                        |
| <b>TOTAL (B)</b>   |    | <b>594,600,819.53</b> | <b>612,493,002.55</b>  |
| <b>Balance being excess of Income over Expenditure (A-B)</b>           |    | <b>32,238,387.96</b>  | <b>-184,187,023.12</b> |
| Transfer to /from Designated Fund                                      |    | -----                 | -----                  |
| Building Fund  |    |                       |                        |
| Others (specify)   |    | -----                 | -----                  |
| <b>BALANCE BEING SURPLUS/(DEFICIT) CARRIED TO CAPITAL FUND</b>         |    | <b>32,238,387.96</b>  | <b>-184,187,023.12</b> |
| SIGNIFICANT ACCOUNTING POLICIES  | 23 |                       |                        |
| CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS                           | 24 |                       |                        |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

**REGISTRAR**  
**NIT, HAMIRPUR (H.P)**

**DIRECTOR**  
**NIT, HAMIRPUR (H.P)**

**NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)**  
**SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31/03/2016**

(Amount--Rs.)

|   |  | <b>Current Year</b> |                         | <b>Previous year</b> |                         |
|---|--|---------------------|-------------------------|----------------------|-------------------------|
| <b>SCHEDULE 1. CORPUS/ CAPITAL FUND :</b>   |  |                     |                         |                      |                         |
| Balance as at the beginning of the year   |  |                     | 3,080,625,630.79        |                      | 2,613,778,690.91        |
| Add : Contribution towards Corpus/Capital fund  |  | 25,320,000.00       |                         |                      |                         |
| Add: Grants from UGC, Government of India and State Government to the extent utilized for capital expenditure |  | 115,000,000.00      |                         | 630,000,000.00       |                         |
| Add: Assets Purchased out of Earmarked Funds  |  | 0.00                |                         | 0.00                 |                         |
| Add: Assets Purchased out of Sponsored Projects, where ownership vests in the institution                     |  | 16,443,516.00       |                         |                      |                         |
| Add: Assets Donated/Gifts Received  |  | 0.00                |                         | 0.00                 |                         |
| Add: Other Additions (Interest on Corpus fund)  |  | 15,948,475.00       |                         | 21,033,963.00        |                         |
| Add: Excess of Income over expenditure transferred from the Income & Expenditure Account                      |  | 32,238,387.96       |                         | -184,187,023.12      |                         |
| Total   |  |                     | 204,950,378.96          |                      | 466,846,939.88          |
| (Deduct) Deficit transferred from the Income & expenditure Account  |  |                     | 0.00                    |                      | 0.00                    |
| <b>BALANCE AS AT THE YEAR -- END</b>  |  |                     | <b>3,285,576,009.75</b> |                      | <b>3,080,625,630.79</b> |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

## NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)

## SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31/03/2016

(Amount--Rs.)

| SCHEDULE 2 - DESIGNATED/ EARMARKED /<br>ENDOWMENT FUNDS | Fund Wise Breakup    |             |             |                    | Total                |                      |
|---|----------------------|-------------|-------------|--------------------|----------------------|----------------------|
|   | Pension Fund         | Fund<br>BBB | Fund<br>CCC | Endowment<br>Funds | Current Year         | Previous Year        |
| <b>A.</b>   |                      |             |             |                    |                      |                      |
| a) Opening balance                                      | 15,188,778.08        |             |             |                    | 15,188,778.08        | 13,498,907.08        |
| b) Additions during the year                            | 1,027,632.00         |             |             |                    | 1,027,632.00         | 1,108,539.00         |
| c) Income from investments made of the funds            | 2,861,879.00         |             |             |                    | 2,861,879.00         | 553,125.00           |
| d) Accrued Interest on investments/Advances             | 0.00                 |             |             |                    | 0.00                 | 0.00                 |
| e) Interest on Savings Bank a/c                         | 76,955.00            |             |             |                    | 76,955.00            | 28,207.00            |
| f) Other additions (Specify nature                      | 0.00                 |             |             |                    | 0.00                 | 0.00                 |
| <b>Total (A)</b>  | <b>19,155,244.08</b> |             |             |                    | <b>19,155,244.08</b> | <b>15,188,778.08</b> |
| <b>B.</b>   |                      |             |             |                    |                      |                      |
| Utilisation/Expenditure towards objectives of funds     | 0.00                 |             |             |                    | 0.00                 | 0.00                 |
| ii) Capital Expenditure                                 | 0.00                 |             |             |                    | 0.00                 | 0.00                 |
| ii) Revenue Expenditure                                 | 0.00                 |             |             |                    | 0.00                 | 0.00                 |
| <b>Total (B)</b>  | <b>0.00</b>          |             |             |                    | 0.00                 | 0.00                 |
| <b>Closing balance at the year end (A - B)</b>          | <b>19,155,244.08</b> | <b>0.00</b> |             | <b>0.00</b>        | <b>19,155,244.08</b> | <b>15,188,778.08</b> |

**Represented by**

Cash And Bank Balances

Investments

Interest accrued but not due

**Total**

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**SCHEDULE 2A****ENDOWMENT FUNDS**

Amount in Rupees

| 1.Sr. No.    | 2. Name of the Endowment | Opening Balance |                         | Additions during the year |             | Total              |                               | Expenditure on the object during the year 9 | Closing Balance |                          | Total   |
|--------------|--------------------------|-----------------|-------------------------|---------------------------|-------------|--------------------|-------------------------------|---|-----------------|--------------------------|---------|
|              |                          |                 |                         |                           |             |                    |                               |   | 10. Endowment   | 11. Accumulated interest | (10+11) |
|              |                          | 3. Endowment    | 4. Accumulated Interest | 5. Endowment              | 6. Interest | 7. Endowment (3+5) | 8. Accumulated Interest (4+6) |   |                 |                          |         |
|              |                          |                 |                         |                           |             |                    |                               |   |                 |                          |         |
|              |                          |                 |                         |                           |             |                    |                               |   |                 |                          |         |
|              |                          |                 |                         |                           |             |                    |                               |   |                 |                          |         |
| <b>Total</b> |                          |                 |                         |                           |             |                    |                               |   |                 |                          |         |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

**NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P.)**  
**SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31/03/2016**

(Amount--Rs.)

|  | Current Year   |                | Previous Year  |
|--|----------------|----------------|----------------|
| <b><u>SCHEDULE 3-CURRENT LIABILITIES AND PROVISIONS</u></b>    |                |                |                |
| <b><u>A. CURRENT LIABILITIES</u></b>                           |                |                |                |
| 1. Deposits from staff (TWS)                                   | 11,782.00      |                | 11,782.00      |
| 2. Deposits from students                                      |                |                |                |
| College Caution Money  | 4,866,100.00   |                | 4,435,600.00   |
| Hostel Caution Money   | 4,619,861.50   |                | 4,274,861.50   |
| Library Security   | 8,672,675.00   |                | 7,977,675.00   |
| 3. Sundry Creditors  |                |                |                |
| a) For Goods & Services  | 0.00           |                | 473,881.00     |
| b) Others  | 0.00           |                | 0.00           |
| 4. Deposit-Others (including EMD, Security Deposit and other ) | 203,278,655.49 |                | 189,983,239.80 |
| 5. Statutory Liabilities (GPF, TDS, WC TAX, CPF, GIS, NPS):    | 37,804.00      | 221,486,877.99 | 469,480.00     |
| Total (A)  |                |                |                |
| B) Others  |                |                |                |
| 6. Other Current Liabilities                                   |                |                |                |
| a) Salaries  | 24,671,434.00  |                | 22,881,927.00  |
| b) Receipts against sponsored projects                         | 36,001,083.49  |                | 27,563,503.49  |
| c) Receipts against sponsored fellowships & scholarships       | 2,673,243.00   |                | 2,543,377.00   |
| d) Unutilised Grants   | 0.00           |                | 0.00           |
| e) Grants in advance   | 0.00           |                | 0.00           |
| f) Other funds   | 9,067,617.00   |                | 7,673,078.00   |
| g) Other liabilities   | 0.00           |                | 0.00           |
| h) Fees received in advance                                    | 50,712,178.68  |                | 43,663,295.00  |
| i) Outstanding Liability UNI                                   | 365,353.00     |                | 365,353.00     |

|                                       |               |                |                |
|---------------------------------------|---------------|----------------|----------------|
| j) Interest on project Grant payable  | 9,887,409.83  |                | 8,944,196.83   |
| k) Extra Curricular Activities        | 24,297,025.10 |                | 20,038,175.10  |
| l) Medical Expenses                   | 5,797.00      |                | 460,465.00     |
| m) Legal Fees                         | 16,000.00     |                | 41,000.00      |
| n) Other Misc                         | 4,498.00      |                | 90,189.00      |
| o) Security Charges                   | 0.00          |                | 1,339,600.00   |
| p) Seminar Expense payable            | 0.00          |                | 5,934.00       |
| q) Professional Development allowance | 51,399.00     |                | 0.00           |
| r) LTC                                | 649.00        |                | 0.00           |
| s) Student Welfare expenses           | 127,094.00    |                | 0.00           |
| t) Journal & Publication              | 92,700.00     |                | 0.00           |
| u) Maintenance of Equipment           | 18,104.00     |                | 0.00           |
| v) Maintenance of Building            | 14,177.00     |                | 578,734.00     |
| w) Wages                              | 25,917.00     |                | 73,916.00      |
| x) Convocation                        | 0.00          |                | 3,042.00       |
| y) NDCPS                              | 618,579.00    |                |                |
|                                       |               | 158,650,258.10 | 343,892,304.72 |
| <b>TOTAL (A)</b>                      |               | 380,137,136.09 | 343,892,304.72 |
| <b>B. PROVISIONS</b>                  |               |                |                |
| 1. For Taxation                       | 0.00          |                | 0.00           |
| 2. Gratuity                           | 891,773.00    |                | 911,315.00     |
| 3. Superannuation Pension             | 2,876,788.00  |                | 0.00           |
| 4. Accumulated Leave Encashment       | 340,199.00    |                | 0.00           |
| 5. Trade Warranties/Claims            | 0.00          |                | 0.00           |
| 6. Others ( Specify)                  |               |                |                |
| Auditors remuneration payable         | 350,000.00    |                | 80,000.00      |
| Consultancy charges payable           | 66,000.00     |                | 66,000.00      |
| Telephone charges payable             | 6,994.00      |                | 18,846.00      |
| Electricity charges payable           | 412,580.00    |                | 535,518.00     |
| Entertainment Expenses                | 127,095.00    |                | 21,125.00      |
| Cleaning and Maintenance              | 0.00          |                | 636,078.00     |



|   |              |                |              |                |
|---|--------------|----------------|--------------|----------------|
| Water Charges                                       | 235,313.00   |                | 386,045.00   |                |
| Stationery expenses                                 | 0.00         |                | 38,421.00    |                |
| Departmental operating cost                         | 0.00         |                | 43,191.00    |                |
| Examination expenses                                | 12,000.00    |                | 0.00         |                |
| Scholarship   | 0.00         |                | 3,692,537.00 |                |
| TA  | 26,958.00    |                | 149,312.00   |                |
| Provision for contingencies, other work & Equipment | 1,781,655.00 |                | 7,327,883.00 |                |
| Bonus   | 650,000.00   |                | 0.00         |                |
|   |              | 7,777,355.00   |              | 13,906,271.00  |
| <b>TOTAL (B)</b>                                    |              | 7,777,355.00   |              | 13,906,271.00  |
| <b>TOTAL (A+B)</b>                                  |              | 387,914,491.09 |              | 357,798,575.72 |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

### SCHEDULE - 3 (a) SPONSORED PROJECTS

| Amount in Rupees |                        |                 |          |  |          |                                |                 |          |
|------------------|------------------------|-----------------|----------|--|----------|--------------------------------|-----------------|----------|
| 1.Sr. No.        | 2. Name of the Project | Opening Balance |          | 5. Receipts/recoveries during the year | 6. Total | 7. Expenditure during the year | Closing Balance |          |
|                  |                        | 3. Credit       | 4. Debit |  |          |                                | 8. Credit       | 9. Debit |
|                  |                        |                 |          |  |          |                                |                 |          |
|                  |                        |                 |          |  |          |                                |                 |          |
|                  |                        |                 |          |  |          |                                |                 |          |
| <b>Total</b>     |                        |                 |          |  |          |                                |                 |          |

### SCHEDULE 3 (b) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS

| 1.Sr. No.    | 2. Name of Sponsor            | Amount in Rupees |          |                             |          |                 |          |
|--------------|-------------------------------|------------------|----------|-----------------------------|----------|-----------------|----------|
|              |                               | Opening Balance  |          | Transaction during the year |          | Closing Balance |          |
|              |                               | 3. Credit        | 4. Debit | 5. Credit                   | 6. Debit | 7. Credit       | 8. Debit |
|              | University Grants Commission  |                  |          |                             |          |                 |          |
|              | Ministry .....                |                  |          |                             |          |                 |          |
|              | Others (Specify individually) |                  |          |                             |          |                 |          |
| <b>Total</b> |                               |                  |          |                             |          |                 |          |

### SCHEDULE 3(c) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS

|  | Current Year | Previous Year |
|--|--------------|---------------|
| <b>A. Plan grants: Government of India</b> |              |               |
| Balance B/F                                |              |               |
| Add: Receipts during the year              |              |               |
| Total (a)                                  |              |               |
| Less Refunds                               |              |               |
| Less: Utilized for Revenue Expenditure     |              |               |
| Less: Utilized for Capital expenditure     |              |               |
| Total (b)                                  |              |               |
| <b>Unutilized carried forward (a-b)</b>    |              |               |
| <b>B. UGC grants: Plan</b>                 |              |               |
| Balance B/F                                |              |               |

|   |  |  |
|---|--|--|
| Add: Receipts during the year           |  |  |
| Total (c)                               |  |  |
| Less Refunds                            |  |  |
| Less: Utilized for Revenue Expenditure  |  |  |
| Less: Utilized for Capital expenditure  |  |  |
| Total (d)                               |  |  |
| <b>Unutilized carried forward (c-d)</b> |  |  |
| <b>C. UGC Grants Non Plan</b>           |  |  |
| Balance B/F                             |  |  |
| Add: Receipts during the year           |  |  |
| Total (e)                               |  |  |
| Less Refunds                            |  |  |
| Less: Utilized for Revenue Expenditure  |  |  |
| Less: Utilized for Capital expenditure  |  |  |
| Total (f)                               |  |  |
| <b>Unutilized carried forward (e-f)</b> |  |  |
| <b>D. Grants from State Govt.</b>       |  |  |
| Balance B/F                             |  |  |
| Add: Receipts during the year           |  |  |
| Total (g)                               |  |  |
| Less Refunds                            |  |  |
| Less: Utilized for Revenue Expenditure  |  |  |
| Less: Utilized for Capital expenditure  |  |  |

|                                  |  |  |
|----------------------------------|--|--|
| Total (h)                        |  |  |
| Unutilized carried forward (g-h) |  |  |
| 'Grand Total (A+B+C+D)           |  |  |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

**SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31/03/2016**

**SCHEDULE-4**

| S. No. | Assets Heads                          | GROSS BLOCK                   |                |            |                  | DEPRECIATION FOR THE YEAR    |                           |                         |                    | NET BLOCK (WDV)  |                  |
|--------|---------------------------------------|-------------------------------|----------------|------------|------------------|------------------------------|---------------------------|-------------------------|--------------------|------------------|------------------|
|        |                                       | Opening Balance<br>01/04/2015 | Additions      | Deductions | Closing Balance  | Depreciation Opening Balance | Depreciation for the year | Deductions / Adjustment | Total Depreciation | 31/03/2016       | 31/03/2015       |
| 1      | Land                                  | 4,420,551.00                  | 0.00           | 0.00       | 4,420,551.00     | 0.00                         | 0.00                      | 0.00                    | 0.00               | 4,420,551.00     | 4,420,551.00     |
| 2      | Site Development                      | 67,315,653.30                 | 0.00           | 0.00       | 67,315,653.30    | 55,314,289.01                | 0.00                      | 0.00                    | 55,314,289.01      | 12,001,364.29    | 12,001,364.28    |
| 3      | Buildings                             | 2,037,149,726.24              | 637,408,169.00 | 0.00       | 2,674,557,895.24 | 635,179,856.17               | 53,491,157.90             | 0.00                    | 688,671,014.07     | 1,985,886,881.17 | 1,401,969,870.07 |
| 4      | Roads & Bridges                       | 0.00                          | 0.00           | 0.00       | 0.00             | 0.00                         | 0.00                      | 0.00                    | 0.00               | 0.00             | 0.00             |
| 5      | Tubewells & Water Supply I            | 0.00                          | 0.00           | 0.00       | 0.00             | 0.00                         | 0.00                      | 0.00                    | 0.00               | 0.00             | 0.00             |
| 6      | Sewerage & Drainage                   | 0.00                          | 0.00           | 0.00       | 0.00             | 0.00                         | 0.00                      | 0.00                    | 0.00               | 0.00             | 0.00             |
| 7      | Electrical Installation and equipment | 0.00                          | 0.00           | 0.00       | 0.00             | 0.00                         | 0.00                      | 0.00                    | 0.00               | 0.00             | 0.00             |
| 8      | Plant & Machinery                     | 416,364,647.52                | 18,740,524.00  | 143,445.00 | 434,961,726.52   | 253,456,329.86               | 21,748,086.33             | 143,445.00              | 275,060,971.19     | 159,900,755.33   | 162,908,317.66   |
| 9      | Scientific & Laboratory Equipment     | 0.00                          | 0.00           | 0.00       | 0.00             | 0.00                         | 0.00                      | 0.00                    | 0.00               | 0.00             | 0.00             |
| 10     | Office Equipment                      | 14,792,250.85                 | 784,121.00     | 0.00       | 15,576,371.85    | 8,161,941.69                 | 1,168,227.89              | 0.00                    | 9,330,169.58       | 6,246,202.27     | 6,630,309.16     |

|        |   |                            |                |                |                  |                              |                           |                         |                    |                  |                  |
|--------|---|----------------------------|----------------|----------------|------------------|------------------------------|---------------------------|-------------------------|--------------------|------------------|------------------|
| 11     | Audio Visual Equipment                    | 0.00                       | 0.00           | 0.00           | 0.00             | 0.00                         | 0.00                      | 0.00                    | 0.00               | 0.00             | 0.00             |
| 12     | Computers & Peripherals                   | 24,740,775.00              | 0.00           | 0.00           | 24,740,775.00    | 17,818,829.52                | 4,948,155.00              | 0.00                    | 22,766,984.52      | 1,973,790.48     | 6,921,945.48     |
| 13     | Furniture, Fixtures & Fittings            | 91,472,743.04              | 16,512,829.00  | 0.00           | 107,985,572.04   | 32,615,890.73                | 8,098,917.90              | 0.00                    | 40,714,808.63      | 67,270,763.41    | 58,856,852.31    |
| 14     | Vehicles                                  | 7,497,054.00               | 1,245,123.00   | 0.00           | 8,742,177.00     | 4,133,249.62                 | 874,217.70                | 0.00                    | 5,007,467.32       | 3,734,709.68     | 3,363,804.38     |
| 15     | Lib. Books & Scientific Journals          | 42,053,763.06              | 2,439,205.00   | 0.00           | 44,492,968.06    | 38,711,308.30                | 4,449,296.81              | 0.00                    | 43,160,605.11      | 1,332,362.95     | 3,342,454.76     |
| 16     | Small Value Assets                        | 76,083.00                  | 0.00           | 0.00           | 76,083.00        | 76,083.00                    | 0.00                      | 0.00                    | 76,083.00          | 0.00             | 0.00             |
|        | Total(A)                                  | 2,705,883,247.01           | 677,129,971.00 | 143,445.00     | 3,382,869,773.01 | 1,045,467,777.90             | 94,778,059.53             | 143,445.00              | 1,140,102,392.43   | 2,242,767,380.58 | 1,660,415,469.10 |
|        |   |                            |                |                |                  |                              |                           |                         |                    |                  |                  |
|        | Capital Work in Progress (B)              | 858,390,298.00             | 71,704,544.00  | 586,537,551.00 | 343,557,291.00   |                              |                           |                         |                    | 343,557,291.00   | 865,718,181.00   |
|        |   |                            |                |                |                  |                              |                           |                         |                    |                  |                  |
|        |   |                            |                |                |                  |                              |                           |                         | TOTAL              | 2,586,324,671.58 | 2,526,133,650.10 |
| S. No. | Intangible Assets                         | Opening Balance 01/04/2015 | Additions      | Deductions     | Closing Balance  | Depreciation Opening Balance | Amortization for the year | Deductions / Adjustment | Total Depreciation | 31/03/2016       | 31/03/2015       |
| -      | Computer Software<br>E-Journals<br>Patent |                            |                |                |                  |                              |                           |                         |                    |                  |                  |
|        | TOTAL C                                   |                            |                |                |                  |                              |                           |                         |                    |                  |                  |
|        | Grand Total (A+B+C)                       |                            |                |                |                  |                              |                           |                         |                    |                  |                  |

## SCHEDULE 4A PLAN

| S. No. | Assets Heads | GROSS BLOCK                |           |            |                 | DEPRECIATION FOR THE YEAR    |                           |                         |                    | NET BLOCK (WDV) |            |
|--------|--------------|----------------------------|-----------|------------|-----------------|------------------------------|---------------------------|-------------------------|--------------------|-----------------|------------|
|        |              | Opening Balance 01/04/2015 | Additions | Deductions | Closing Balance | Depreciation Opening Balance | Depreciation for the year | Deductions / Adjustment | Total Depreciation | 31/03/2016      | 31/03/2015 |

|    |   |                  |                |                |                  |                  |               |            |                  |                  |                  |
|----|---|------------------|----------------|----------------|------------------|------------------|---------------|------------|------------------|------------------|------------------|
|    |   |                  |                |                |                  |                  |               |            |                  |                  |                  |
| 1  | Land  | 4,420,551.00     | 0.00           | 0.00           | 4,420,551.00     | 0.00             | 0.00          | 0.00       | 0.00             | 4,420,551.00     | 4,420,551.00     |
| 2  | Site Development                                    | 67,315,653.30    | 0.00           | 0.00           | 67,315,653.30    | 55,314,289.01    | 0.00          | 0.00       | 55,314,289.01    | 12,001,364.29    | 12,001,364.28    |
| 3  | Buildings   | 2,037,149,726.24 | 637,408,169.00 | 0.00           | 2,674,557,895.24 | 635,179,856.17   | 53,491,157.90 | 0.00       | 688,671,014.07   | 1,985,886,881.17 | 1,401,969,870.07 |
| 4  | Roads & Bridges                                     | 0.00             | 0.00           | 0.00           | 0.00             | 0.00             | 0.00          | 0.00       | 0.00             | 0.00             | 0.00             |
| 5  | Tubewells & Water Supply I                          | 0.00             | 0.00           | 0.00           | 0.00             | 0.00             | 0.00          | 0.00       | 0.00             | 0.00             | 0.00             |
| 6  | Sewerage & Drainage                                 | 0.00             | 0.00           | 0.00           | 0.00             | 0.00             | 0.00          | 0.00       | 0.00             | 0.00             | 0.00             |
| 7  | Electrical Installation and equipment               | 0.00             | 0.00           | 0.00           | 0.00             | 0.00             | 0.00          | 0.00       | 0.00             | 0.00             | 0.00             |
| 8  | Plant & Machinery Scientific & Laboratory Equipment | 416,364,647.52   | 18,740,524.00  | 143,445.00     | 434,961,726.52   | 253,456,329.86   | 21,748,086.33 | 143,445.00 | 275,060,971.19   | 159,900,755.33   | 162,908,317.66   |
| 9  | Office Equipment                                    | 0.00             | 0.00           | 0.00           | 0.00             | 0.00             | 0.00          | 0.00       | 0.00             | 0.00             | 0.00             |
| 10 | Audio Visual Equipment                              | 14,792,250.85    | 784,121.00     | 0.00           | 15,576,371.85    | 8,161,941.69     | 1,168,227.89  | 0.00       | 9,330,169.58     | 6,246,202.27     | 6,630,309.16     |
| 11 | Computers & Peripherals                             | 0.00             | 0.00           | 0.00           | 0.00             | 0.00             | 0.00          | 0.00       | 0.00             | 0.00             | 0.00             |
| 12 | Furniture, Fixtures & Fittings                      | 24,740,775.00    | 0.00           | 0.00           | 24,740,775.00    | 17,818,829.52    | 4,948,155.00  | 0.00       | 22,766,984.52    | 1,973,790.48     | 6,921,945.48     |
| 13 | Vehicles  | 91,472,743.04    | 16,512,829.00  | 0.00           | 107,985,572.04   | 32,615,890.73    | 8,098,917.90  | 0.00       | 40,714,808.63    | 67,270,763.41    | 58,856,852.31    |
| 14 | Lib. Books & Scientific Journals                    | 7,497,054.00     | 1,245,123.00   | 0.00           | 8,742,177.00     | 4,133,249.62     | 874,217.70    | 0.00       | 5,007,467.32     | 3,734,709.68     | 3,363,804.38     |
| 15 | Small Value Assets                                  | 42,053,763.06    | 2,439,205.00   | 0.00           | 44,492,968.06    | 38,711,308.30    | 4,449,296.81  | 0.00       | 43,160,605.11    | 1,332,362.95     | 3,342,454.76     |
| 16 |   | 76,083.00        | 0.00           | 0.00           | 76,083.00        | 76,083.00        | 0.00          | 0.00       | 76,083.00        | 0.00             | 0.00             |
|    | Total(A)  | 2,705,883,247.01 | 677,129,971.00 | 143,445.00     | 3,382,869,773.01 | 1,045,467,777.90 | 94,778,059.53 | 143,445.00 | 1,140,102,392.43 | 2,242,767,380.58 | 1,660,415,469.10 |
|    |   |                  |                |                |                  |                  |               |            |                  |                  |                  |
|    | Capital Work in Progress (B)                        | 858,390,298.00   | 71,704,544.00  | 586,537,551.00 | 343,557,291.00   |                  |               |            |                  | 343,557,291.00   | 865,718,181.00   |
|    |   |                  |                |                |                  |                  |               |            |                  |                  |                  |
|    |   |                  |                |                |                  |                  |               |            | TOTAL            | 2,586,324,671.58 | 2,526,133,650.10 |

| S. No. | Intangible Assets      | Opening Balance<br>01/04/2015 | Additions | Deductions | Closing Balance | Depreciation<br>Opening<br>Balance | Amortization<br>for the year | Deductions<br>/<br>Adjustment | Total<br>Depreciation | 31/03/2016 | 31/03/2015 |
|--------|------------------------|-------------------------------|-----------|------------|-----------------|------------------------------------|------------------------------|-------------------------------|-----------------------|------------|------------|
| -      | Computer Software      |                               |           |            |                 |                                    |                              |                               |                       |            |            |
|        | E-Journals             |                               |           |            |                 |                                    |                              |                               |                       |            |            |
|        | Patent                 |                               |           |            |                 |                                    |                              |                               |                       |            |            |
|        | TOTAL C                |                               |           |            |                 |                                    |                              |                               |                       |            |            |
|        | Grand Total<br>(A+B+C) |                               |           |            |                 |                                    |                              |                               |                       |            |            |
|        | Grand Total<br>(A+B+C) |                               |           |            |                 |                                    |                              |                               |                       |            |            |

**SCHEDULE 4B NON- PLAN**

| S. No. | Assets<br>Heads                 | GROSS BLOCK                      |           |            |                    | DEPRECIATION FOR THE YEAR                |                                 |                               |                       | NET BLOCK<br>(WDV) |            |
|--------|---------------------------------|----------------------------------|-----------|------------|--------------------|--|---------------------------------|-------------------------------|-----------------------|--------------------|------------|
|        |                                 | Opening<br>Balance<br>01/04/2015 | Additions | Deductions | Closing<br>Balance | Depreciation<br>on<br>Opening<br>Balance | Depreciation<br>for the<br>year | Deductions<br>/<br>Adjustment | Total<br>Depreciation | 31/03/2016         | 31/03/2015 |
|        | Land<br>Site<br>Development     |                                  |           |            |                    |  |                                 |                               |                       |                    |            |
|        | Buildings<br>Roads &<br>Bridges |                                  |           |            |                    |  |                                 |                               |                       |                    |            |



|  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|
| Tubewells &<br>Water<br>Supply I<br>Sewerage &<br>Drainage<br>Electrical<br>Installation<br>and<br>equipment<br>Plant &<br>Machinery<br>Scientific &<br>Laboratory<br>Equipment<br>Office<br>Equipment<br>Audio<br>Visual<br>Equipment<br>Computers<br>&<br>Peripherals<br>Furniture,<br>Fixtures &<br>Fittings<br>Vehicles<br>Lib. Books<br>& Scientific<br>Journals<br>Small Value<br>Assets |  |  |  |  |  |  |  |  |  |  |
| Total(A)   |  |  |  |  |  |  |  |  |  |  |

|                  |  |  |                       |                        |                                  |  |   |  |                                    |                        |                        |
|------------------|--|--|-----------------------|------------------------|----------------------------------|--|---|--|------------------------------------|------------------------|------------------------|
|                  |  |  |                       |                        |                                  |  |   |  |                                    |                        |                        |
|                  | Capital<br>Work in<br>Progress (B)           |  |                       |                        |                                  |  |   |  |                                    |                        |                        |
|                  |  |  |                       |                        |                                  |  |   |  |                                    |                        |                        |
|                  |  |  |                       |                        |                                  |  |   |  |                                    |                        |                        |
| <b>S.<br/>No</b> | <b>Intangible<br/>Assets</b>                 | <b>Opening<br/>Balance<br/>01/04/201<br/>5</b> | <b>Additi<br/>ons</b> | <b>Deductio<br/>ns</b> | <b>Closin<br/>g Balanc<br/>e</b> | <b>Depreciati<br/>on<br/>Opening<br/>Balance</b> | <b>Amortizati<br/>on for the<br/>year</b> | <b>Deductio<br/>ns /<br/>Adjustme<br/>nt</b> | <b>Total<br/>Depreciati<br/>on</b> | <b>31/03/201<br/>6</b> | <b>31/03/201<br/>5</b> |
| -                | Computer<br>Software<br>E-Journals<br>Patent |  |                       |                        |                                  |  |   |  |                                    |                        |                        |
|                  | TOTAL C                                      |  |                       |                        |                                  |  |   |  |                                    |                        |                        |
|                  | <b>Grand Total<br/>(A+B+C)</b>               |  |                       |                        |                                  |  |   |  |                                    |                        |                        |

**SCHEDULE 4 C -INTANGIBLE ASSETS**

| S. No. | Intangible Assets  | Opening Balance 01/04/2015 | Additions | Deductions | Closing Balance | Depreciation on Opening Balance | Amortization for the year | Deductions / Adjustment | Total Depreciation | 31/03/2016 | 31/03/2015 |
|--------|--|----------------------------|-----------|------------|-----------------|---------------------------------|---------------------------|-------------------------|--------------------|------------|------------|
| -      | Patents & Copyrights<br>Computer Software<br>E- Journals |                            |           |            |                 |                                 |                           |                         |                    |            |            |
|        | TOTAL C  |                            |           |            |                 |                                 |                           |                         |                    |            |            |

**SCHEDULE 4( C) (i) PATENTS AND COPYRIGHTS**

| Particulars  | Opening Balance 01/04/2015 | Additions | Gross | Amortization | Net Block 31/03/2016 | Net Block 31/03/2015 |
|--|----------------------------|-----------|-------|--------------|----------------------|----------------------|
| <b>A. Patents Granted</b>  |                            |           |       |              |                      |                      |
| 1 Balance as on 31.03.14 of Patents obtained in 2008-09<br>(Original Value - Rs .... /-) |                            |           |       |              |                      |                      |
| 2 Balance as on 31.03.14 of Patents obtained in 2010-11<br>( Original Value- Rs .... /-) |                            |           |       |              |                      |                      |
| 3 Balance as on 31.03.14 of Patents obtained in 2012-13                                  |                            |           |       |              |                      |                      |

|   |   |                  |              |  |                                 |                                 |
|---|---|------------------|--------------|--|---------------------------------|---------------------------------|
| ( Original Value - Rs .... /-)                              |   |                  |              |  |                                 |                                 |
| 4 Patents granted during the Current Year                   |   |                  |              |  |                                 |                                 |
| <b>Total</b>  |   |                  |              |  |                                 |                                 |
|   |   |                  |              |  |                                 |                                 |
| <b>Particulars</b>  | <b>Opening<br/>Balance<br/>01/04/2015</b> | <b>Additions</b> | <b>Gross</b> | <b>Patents<br/>Granted/<br/>rejected</b> | <b>Net Block<br/>31/03/2016</b> | <b>Net Block<br/>31/03/2015</b> |
| <b>B. Patents Pending in respect of Patents applied for</b> |   |                  |              |  |                                 |                                 |
| 1 Expenditure incurred during 2009-10 to 2011-12            |   |                  |              |  |                                 |                                 |
| 2 Expenditure incurred during 2012-13                       |   |                  |              |  |                                 |                                 |
| 3 Expenditure incurred during 2013-14                       |   |                  |              |  |                                 |                                 |
| <b>Total</b>  |   |                  |              |  |                                 |                                 |
|   |   |                  |              |  |                                 |                                 |
| <b>C. Grand Total (A+B)</b>                                 |   |                  |              |  |                                 |                                 |

**SCHEDULE 4D OTHERS**

| S. No. | Assets Heads   | GROSS BLOCK                |           |            |                 | DEPRECIATION FOR THE YEAR       |                           |                         |                    | NET BLOCK (WDV) |            |
|--------|--|----------------------------|-----------|------------|-----------------|---------------------------------|---------------------------|-------------------------|--------------------|-----------------|------------|
|        |  | Opening Balance 01/04/2015 | Additions | Deductions | Closing Balance | Depreciation on Opening Balance | Depreciation for the year | Deductions / Adjustment | Total Depreciation | 31/03/2016      | 31/03/2015 |
|        | Land<br>Site Development<br>Buildings<br>Roads & Bridges<br>Tubewells & Water Supply<br>Sewerage & Drainage<br>Electrical Installation and equipment<br>Plant & Machinery<br>Scientific & Laboratory Equipment<br>Office Equipment |                            |           |            |                 |                                 |                           |                         |                    |                 |            |

|   |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|
| Audio<br>Visual<br>Equipment<br>Computers<br>&<br>Peripherals<br>Furniture,<br>Fixtures &<br>Fittings<br>Vehicles<br>Lib. Books<br>& Scientific<br>Journals<br>Small<br>Value<br>Assets |  |  |  |  |  |  |  |  |  |  |  |
| Total(A)  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |  |  |
| Capital<br>Work in<br>Progress<br>(B)   |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |  |  |
| Grand<br>Total  |  |  |  |  |  |  |  |  |  |  |  |

Note: The additions during the Year include additions from:

Gifted  
Earmarked Funds

Sponsored Projects  
Own Funds  
**Total**

**DY. REGISTRAR ( ACCOUNTS )  
NIT, HAMIRPUR (H.P)**

**SCHEDULE 5 : INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS**

Amount in Rupees

|                                    | <b>Current Year</b> | <b>Previous Year</b> |
|------------------------------------|---------------------|----------------------|
| 1 In Central Government Securities |                     |                      |
| 2 In State Government Securities   |                     |                      |
| 3 Other approved Securities        |                     |                      |
| 4 Shares                           |                     |                      |
| 5 Debentures and Bonds             |                     |                      |
| 6 Term Deposits with Banks         |                     |                      |
| 7 Others (to be specified)         |                     |                      |
| <b>Total</b>                       |                     |                      |

**SCHEDULE 5 (A) INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS (FUND WISE)**

Amount in Rupees

| <b>Sl. No.</b> | <b>Funds</b> | <b>Current Year</b> | <b>Previous Year</b> |
|----------------|--------------|---------------------|----------------------|
|                |              |                     |                      |



|  |                     |                      |
|--|---------------------|----------------------|
| Endowment Fund Investments             |                     |                      |
| <b>Total</b>                           |                     |                      |
| <b>SCHEDULE 6 -INVESTMENTS- OTHERS</b> |                     |                      |
|  | Amount in Rupees    |                      |
|  | <b>Current Year</b> | <b>Previous Year</b> |
| 1. In Central Government Securities    |                     |                      |
| 2. In State Government Securities      |                     |                      |
| 3. Other approved Securities           |                     |                      |
| 4. Shares                              |                     |                      |
| 5. Debentures and Bonds                |                     |                      |
| 6. Others (to be specified)            |                     |                      |
| <b>Total</b>                           |                     |                      |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

**NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)**  
**SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31/03/2016**

(Amount-Rs)

| <b>SCHEDULE 7 - CURRENT ASSETS</b>                     |  | <b>Current Year</b> |              | <b>Previous Year</b> |              |
|--|--|---------------------|--------------|----------------------|--------------|
| <b>1. Stock:</b>                                       |  |                     |              |                      |              |
| a) Stores and Spares                                   |  | 6,589,590.00        |              | 2,074,408.00         |              |
| b) loose Tools   |  | 0.00                |              | 0.00                 |              |
| c) Publications  |  | 0.00                |              | 0.00                 |              |
| d) laboratory chemicals, consumables and glass ware    |  | 0.00                |              | 0.00                 |              |
| e) Building Material                                   |  | 0.00                |              | 0.00                 |              |
| f) Electrical Material                                 |  | 0.00                |              | 0.00                 |              |
| g) Stationery  |  | 0.00                |              | 0.00                 |              |
| h) Water supply material                               |  | 0.00                | 6,589,590.00 | 0.00                 | 2,074,408.00 |
| <b>2. Sundry Debtors:</b>                              |  |                     |              |                      |              |
| a) Debts Outstanding for a period exceeding six months |  | 0.00                |              | 0.00                 |              |
| b) Others  |  | 0.00                | 0.00         | 0.00                 | 0.00         |
| <b>3. Cash and Bank Balances</b>                       |  |                     |              |                      |              |
| <b>a) With Scheduled Banks:</b>                        |  |                     |              |                      |              |
| Cash In Hand   |  | 273,463.05          |              | 227,856.05           |              |
| Current Account/Grant in Transit                       |  | 0.00                |              | 110,000,000.00       |              |
| Fixed Deposit  |  | 829,392,245.00      |              | 380,618,787.01       |              |
| Saving Account Main Account                            |  | 93,533,732.11       |              | 253,317,337.24       |              |
| Saving Account Secrecy Fund                            |  | 18,189.94           |              | 192,264.94           |              |
| <b>b) With non-Scheduled Banks:</b>                    |  |                     |              |                      |              |

|   |      |                |      |                |
|---|------|----------------|------|----------------|
| In term deposit Accounts                | 0.00 |                | 0.00 |                |
| In Savings Accounts                     | 0.00 |                | 0.00 |                |
| <b>4. Post Office- Savings Accounts</b> |      | 923,217,630.10 |      | 744,356,245.24 |
| <b>TOTAL</b>                            |      | 929,807,220.10 |      | 746,430,653.24 |

**DY. REGISTRAR ( ACCOUNTS )  
NIT, HAMIRPUR (H.P)**

**NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)  
SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31/03/2016**

(Amount-Rs)

| <b>SCHEDULE 8- LOANS, ADVANCES &amp; DEPOSITS</b>  | <b>Current Year</b> |              | <b>Previous Year</b> |              |
|--|---------------------|--------------|----------------------|--------------|
| <b>1. Advances to employees: (Non-interest bearing)</b>  |                     |              |                      |              |
| a) Salary  | 0.00                |              | 0.00                 |              |
| b) Festival  | 0.00                |              | 0.00                 |              |
| c) Medical Advance   | 0.00                |              | 0.00                 |              |
| d) Other (to be specified)   | 0.00                | 0.00         | 0.00                 | 0.00         |
| <b>2. Long Term Advances to employees: (Interest bearing)</b>                                    |                     |              |                      |              |
| a) Vehicle loan  | 0.00                |              | 0.00                 |              |
| b) Home loan   | 0.00                |              | 0.00                 |              |
| c) Others (to be specified)  | 2,374,343.00        | 2,374,343.00 | 2,577,724.00         | 2,577,724.00 |
| <b>3. Advances and other amounts recoverable in cash or in kind or for value to be received:</b> |                     |              |                      |              |
| a) On Capital Account  | 160,767,578.24      |              | 167,881,030.24       |              |

|  |               |                |              |                |
|--|---------------|----------------|--------------|----------------|
| b) to Suppliers  | 0.00          |                | 0.00         |                |
| c) Others  | 0.00          | 160,767,578.24 | 0.00         | 167,881,030.24 |
| <b>4. Prepaid Expenses</b>   |               |                |              |                |
| a) Insurance   |               |                |              |                |
| b) Other expenses  |               |                |              |                |
| <b>5. Deposits</b>   |               |                |              |                |
| a) Telephone '   | 0.00          |                | 0.00         |                |
| b) Lease Rent  | 0.00          |                | 0.00         |                |
| c) Electricity   | 0.00          |                | 0.00         |                |
| d) AI GTE, if applicable   | 0.00          |                | 0.00         |                |
| e) Others (to be specified)  | 0.00          | 0.00           | 0.00         | 0.00           |
| <b>6. Income Accrued:</b>  |               |                |              |                |
| a) On Investments from Earmarked/ Endowment Funds                      | 0.00          |                | 0.00         |                |
| b) On Investments-FDR  | 11,819,354.00 |                | 9,390,712.00 |                |
| c) On Loans and Advances   | 0.00          |                | 0.00         |                |
| d) Others (includes income due unrealized) Saving Bank                 | 1,097,566.00  | 12,916,920.00  | 790,700.00   | 10,181,412.00  |
| <b>7. Other- Current assets receivable from UGC/sponsored projects</b> |               |                |              |                |
| a) Debit balances in Sponsored Projects                                | 0.00          |                | 0.00         |                |
| b) Debit balances in Sponsored Fellowships & Scholarships              | 0.00          |                | 0.00         |                |
| c) Grants Receivable   | 0.00          |                | 0.00         |                |
| d) Other receivables from UGC  | 0.00          | 0.00           | 0.00         | 0.00           |
| <b>8. Claims Receivable</b>  |               |                |              |                |
| Misc Income  | 7,313.00      |                |              |                |

|   |              |                       |  |                       |
|---|--------------|-----------------------|--|-----------------------|
| License Fees                              | 103,139.00   |                       |  |                       |
| Garage Rent                               | 3,060.00     |                       |  |                       |
| Interest on loan & Advances from Staff    | 34,200.00    |                       |  |                       |
| Income receiveable from Forest Department | 298,000.00   |                       |  |                       |
| Rent from Guest House                     | 9,300.00     | 455,012.00            |  | 408,515.00            |
|   | <b>TOTAL</b> | <b>176,513,853.24</b> |  | <b>181,048,681.24</b> |

DY. REGISTRAR ( ACCOUNTS)  
NIT, HAMIRPUR (H.P)

NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)

SCHEDULE FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 31/03/2016

| SCHEDULE 9- ACADEMIC RECEIPT   |  | (Amount-Rs)           |                       |
|--------------------------------|--|-----------------------|-----------------------|
|                                |  | Current Year          | Previous Year         |
| <b>FEES FROM STUDENTS</b>      |  |                       |                       |
| <b>Academic</b>                |  |                       |                       |
| 1. Tuition fee                 |  | 148,022,096.49        | 111,042,683.40        |
| 2. Admission fee               |  | 447,500.00            | 436,000.00            |
| 3. Enrolment fee               |  | 0.00                  | 0.00                  |
| 4. Library Admission fee       |  | 295,411.00            | 275,400.00            |
| 5. Laboratory fee              |  | 0.00                  | 0.00                  |
| 6. Art & Craft fee             |  | 0.00                  | 0.00                  |
| 7. Registration fee            |  | 0.00                  | 0.00                  |
| 8. Syllabus fee                |  | 0.00                  | 0.00                  |
| <b>Total (A)</b>               |  | <b>148,765,007.49</b> | <b>111,754,083.40</b> |
| <b>Examinations</b>            |  |                       |                       |
| 1. Admission test fee          |  | 0.00                  | 0.00                  |
| 2. Annual Examination fee      |  | 4,668,500.00          | 3,653,650.00          |
| 3. Mark sheet, certificate fee |  | 90,775.00             | 145,875.00            |

|   |                       |                       |
|---|-----------------------|-----------------------|
| 4. Entrance examination fee                     | 0.00                  | 0.00                  |
| <b>Total (B)</b>                                | <b>4,759,275.00</b>   | <b>3,799,525.00</b>   |
| <b>Other Fees</b>                               |                       |                       |
| 1. Identity card fee                            | 0.00                  | 0.00                  |
| 2. Fine/ Miscellaneous fee                      | 0.00                  | 0.00                  |
| 3. Medical fee                                  | 840,075.00            | 789,825.00            |
| 4. Transportation fee                           | 0.00                  | 0.00                  |
| 5. Hostel fee                                   | 0.00                  | 0.00                  |
| 6. Grade Card Fee                               | 83,075.00             | 90,925.00             |
| 7. Common Facility Fee                          | 1,120,000.00          | 1,053,100.00          |
| <b>Total(C)</b>                                 | <b>2,043,150.00</b>   | <b>1,933,850.00</b>   |
| <b>Sale of Publications</b>                     |                       |                       |
| 1. Sale of Admission forms                      | 0.00                  | 0.00                  |
| 2. Sale of syllabus and Question Paper, etc.    | 0.00                  | 0.00                  |
| 3. Sale of prospectus including admission forms | 0.00                  | 0.00                  |
| <b>Total (D)</b>                                | <b>0.00</b>           | <b>0.00</b>           |
| <b>Other Academic Receipts</b>                  |                       |                       |
| 1. Registration fee for workshops, programmes   | 0.00                  | 24,000.00             |
| 2. Registration fees (Academic Staff College)   | 0.00                  | 0.00                  |
| <b>Total (E)</b>                                | <b>0.00</b>           | <b>24,000.00</b>      |
| <b>GRAND TOTAL (A+B+C+D+E)</b>                  | <b>155,567,432.49</b> | <b>117,511,458.40</b> |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

## NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)

## SCHEDULE FORMING PART OF INCOME &amp; EXPENDITURE FOR THE PERIOD/YEAR ENDED 31/03/2016

## SCHEDULE 10- GRANTS SUBSIDIES IRREVOCABLE GRANTS RECEIVED)

Amount in Rupees

| SCHEDULE IV- GRANTS SUBSIDIES (REVOCABLE GRANTS RECEIVED) |                |      |                  | Amount in Rupees |                                  |                       |                        |
|---|----------------|------|------------------|------------------|----------------------------------|-----------------------|------------------------|
| Particulars   | Plan           |      |                  | Total Plan       | Non Plan<br>UGC/Govt<br>of India | Current year<br>Total | Previous Year<br>Total |
|   | Govt of India  | UGC  |                  |                  |                                  |                       |                        |
|   |                | Plan | Specific Schemes |                  |                                  |                       |                        |
| Balance B/F   | 0.00           | 0.00 | 0.00             | 0.00             | 0.00                             | 0.00                  | 0.00                   |
| Add: Receipts during the year                             | 240,000,000.00 | 0.00 | 0.00             | 240,000,000.00   | 280,000,000.00                   | 520,000,000.00        | 270,000,000.00         |
| Total   | 240,000,000.00 | 0.00 | 0.00             | 240,000,000.00   | 280,000,000.00                   | 520,000,000.00        | 270,000,000.00         |
| Less: Refund to UGC                                       | 0.00           | 0.00 | 0.00             | 0.00             | 0.00                             | 0.00                  | 0.00                   |
| Balance   | 240,000,000.00 | 0.00 | 0.00             | 240,000,000.00   | 280,000,000.00                   | 520,000,000.00        | 270,000,000.00         |
| Less: Utilised for Capital expenditure (A)                | 95,000,000.00  | 0.00 | 0.00             | 95,000,000.00    | 0.00                             | 95,000,000.00         | 0.00                   |
| Balance   | 145,000,000.00 | 0.00 | 0.00             | 145,000,000.00   | 280,000,000.00                   | 425,000,000.00        | 270,000,000.00         |
| Less: utilized for Revenue Expenditure (B)                | 145,000,000.00 | 0.00 | 0.00             | 145,000,000.00   | 280,000,000.00                   | 425,000,000.00        | 270,000,000.00         |
| Balance C/F (C)   | 0.00           | 0.00 | 0.00             | 0.00             | 0.00                             | 0.00                  | 0.00                   |

DY. REGISTRAR ( ACCOUNTS)  
NIT, HAMIRPUR (H.P)

## SCHEDULE 11- INCOME FROM INVESTMENTS

Amount in Rupees

| Particulars | Earmarked/ Endowment Fund |               | Other Investments |               |
|-------------|---------------------------|---------------|-------------------|---------------|
|             | Current Year              | Previous Year | Current Year      | Previous Year |
|             |                           |               |                   |               |



|  |             |             |                      |                      |
|--|-------------|-------------|----------------------|----------------------|
| <b>1. Interest</b>   | -           | -           | -                    |                      |
| a. On Government Securities  | -           | -           | -                    |                      |
| b. Other Bonds/Debentures  | -           | -           | -                    |                      |
| <b>2. Interest on Term Deposits</b>  | 0.00        | 0.00        | 24,701,404.00        | 17,753,583.00        |
| <b>3. Income accrued but not due on Term Deposits/Interest bearing advances to employees</b> | -           | -           | -                    |                      |
| <b>4. Interest on Savings Bank Accounts</b>  | -           | -           | -                    |                      |
| <b>5. Others (Specify)</b>   | -           | -           | -                    |                      |
| <b>TOTAL</b>   | <b>0.00</b> | <b>0.00</b> | <b>24,701,404.00</b> | <b>17,753,583.00</b> |
| <b>Transferred to Earmarked/Endowment Funds</b>  |             |             |                      |                      |
| <b>Balance</b>   |             |             |                      |                      |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

**NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)**  
**SCHEDULE FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 31/03/2016**

| <b>SCHEDULE 12- INTEREST EARNED</b>      |                     | <b>(Amount-Rs)</b>  |  |
|--|---------------------|---------------------|--|
| Particulars                              | Current Year        | Previous Year       |  |
| 1 On Savings Accounts With Schedule Bank | 4,186,433.00        | 6,287,624.00        |  |
| 2 On Loans:                              |                     |                     |  |
| a) Employees/Staff                       | 303,210.00          | 612,333.00          |  |
| b) Others                                | 0.00                | 0.00                |  |
| 3. On Debtors and Other Receivables      | 0.00                | 0.00                |  |
| <b>TOTAL</b>                             | <b>4,489,643.00</b> | <b>6,899,957.00</b> |  |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

**NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)**  
**SCHEDULE FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 31/03/2016**

| <b>SCHEDULE 13-OTHER INCOME</b>            |   | <b>(Amount-Rs)</b> |  |               |  |
|--|---|--------------------|--|---------------|--|
|  |   | Current Year       |  | Previous Year |  |
|  |   |                    |  |               |  |
| <b>A. Income from Land &amp; Buildings</b> | - |                    |  |               |  |
| 1. Hostel Room Rent                        | - | 8,357,250.00       |  | 8,891,409.00  |  |
| 2. License fee                             | - | 1,569,909.00       |  | 1,228,976.00  |  |

|   |              |                      |               |                      |               |
|---|--------------|----------------------|---------------|----------------------|---------------|
| 3. Hire Charges of Auditorium/Play ground/Convention Centre, etc          | -            | 212,135.00           |               | 0.00                 |               |
| 4. Electricity charges recovered  | -            | 0.00                 |               | 0.00                 |               |
| 5. Water charges recovered  | -            | 1,290,569.00         |               | 1,722,570.00         |               |
| 6. Rent from Guest House  | -            | 944,854.00           |               | 0.00                 |               |
| 7. Rent from Garrage  | -            | 36,590.00            |               | 36,846.00            |               |
|   | <b>Total</b> | <b>12,411,307.00</b> | 12,411,307.00 | <b>11,879,801.00</b> | 11,879,801.00 |
| <b>B. Sale of Institute's publications</b>                                | -            |                      | 0.00          | 0.00                 | 0.00          |
|   | -            |                      |               |                      |               |
| <b>C. Income from holding events</b>                                      | -            |                      |               |                      |               |
| 1. Gross Receipts from annual function/ sports carnival                   | -            |                      | 0.00          | 0.00                 |               |
| Less: Direct expenditure incurred on the annual function/ sports carnival | -            |                      |               |                      |               |
| 2. Gross Receipts from fetes  | -            |                      | 0.00          | 0.00                 |               |
| Less: Direct expenditure incurred on the fetes                            | -            |                      |               |                      |               |
| 3. Gross Receipts for educational tours                                   | -            |                      | 0.00          | 0.00                 |               |
| Less: Direct expenditure incurred on the tours                            | -            |                      |               |                      |               |
| 4. Others (to be specified and separately disclosed)                      | -            |                      | 0.00          | 0.00                 |               |
|   | <b>Total</b> | <b>0.00</b>          | 0.00          | <b>0.00</b>          | 0.00          |
| <b>D. Others</b>  | -            |                      |               |                      |               |
| 1. Income from consultancy .  |              | 0.00                 |               | 0.00                 |               |
| 2. RTI fees   |              | 0.00                 |               | 0.00                 |               |
| 3. Income from Royalty  |              | 0.00                 |               | 0.00                 |               |
| 4. Sale of application form (recruitment)                                 |              | 0.00                 |               | 0.00                 |               |
| 5. Misc. receipts (Sale of tender form, waste paper, etc.)                |              | 3,771,287.00         |               | 3,739,355.03         |               |
| 6. Profit on Sale/disposal of Assets                                      |              | 0.00                 |               | 0.00                 |               |
| a) Owned assets   |              | 0.00                 |               | 0.00                 |               |
| b) Assets received free of cost   |              | 0.00                 |               | 0.00                 |               |

|   |              |                     |               |                     |               |
|---|--------------|---------------------|---------------|---------------------|---------------|
| 7. Grants/Donations from Institutions, Welfare Bodies and International Organizations |              | 0.00                |               | 0.00                |               |
| 8 Others (specify) Overhead Charges   |              | 898,134.00          |               | 468,459.00          |               |
| 10. Charges for use of transport  |              | 0.00                |               | 53,366.00           |               |
|   | <b>Total</b> | <b>4,669,421.00</b> | 4,669,421.00  | <b>4,261,180.03</b> | 4,261,180.03  |
| <b>Grand Total (A+B+C+D)</b>  |              |                     | 17,080,728.00 |                     | 16,140,981.03 |

**SCHEDULE 14- PRIOR PERIOD INCOME**

|                            |  | Amount In Rupees |               |
|----------------------------|--|------------------|---------------|
| Particulars                |  | Current Years    | Previous Year |
| 1. Academic Receipts       |  | 0.00             | 0.00          |
| 2. Income from Investments |  | 0.00             | 0.00          |
| 3. Interest earned         |  | 0.00             | 0.00          |
| 4. Other Income            |  | 0.00             | 0.00          |
| <b>Total</b>               |  | 0.00             | 0.00          |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

## NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)

## SCHEDULE FORMING PART OF INCOME &amp; EXPENDITURE FOR THE PERIOD/YEAR ENDED 31/03/2016

## SCHEDULE 15- STAFF PAYMENTS &amp; BENEFITS (ESTABLISHMENT EXPENSES)

|  | Current Year |                |                | Previous Year |                |                |
|--|--------------|----------------|----------------|---------------|----------------|----------------|
|  | Plan         | Non-Plan       | Total          | Plan          | Non-Plan       | Total          |
| a) Salaries and Wages                                  | 0.00         | 274,877,138.00 | 274,877,138.00 | 0.00          | 252,417,503.00 | 252,417,503.00 |
| b) Allowances and Bonus                                | 0.00         | 650,000.00     | 650,000.00     | 0.00          | 689,360.00     | 689,360.00     |
| c) Contribution to Pension Fund                        | 0.00         | 5,986,682.00   | 5,986,682.00   | 0.00          | 15,878.00      | 15,878.00      |
| d) Contribution to Other Fund (NPS)                    | 0.00         | 306,000.00     | 306,000.00     | 0.00          | 5,064,701.00   | 5,064,701.00   |
| e) Staff Welfare Expenses                              | 0.00         | 248,549.00     | 248,549.00     | 0.00          | 228,385.00     | 228,385.00     |
| D Retirement and Terminal Benefits                     | 0.00         | 34,902,408.00  | 34,902,408.00  | 0.00          | 21,096,530.00  | 21,096,530.00  |
| g) LTC facility  | 0.00         | 1,634,207.00   | 1,634,207.00   | 0.00          | 5,697,101.00   | 5,697,101.00   |
| h) Medical facility                                    | 0.00         | 3,648,779.00   | 3,648,779.00   | 0.00          | 3,229,397.00   | 3,229,397.00   |
| i) Children Education Allowance                        | 0.00         | 3,092,879.00   | 3,092,879.00   | 0.00          | 2,985,103.00   | 2,985,103.00   |
| j) Honorarium  | 0.00         | 0.00           | 0.00           | 0.00          |                | 0.00           |
| l) Others (specify) Professional development allowance | 0.00         | 234,473.00     | 234,473.00     | 0.00          | 7,846,828.00   | 7,846,828.00   |
| Overtime Drivers                                       | 0.00         | 0.00           | 0.00           | 0.00          | 2,058.00       | 2,058.00       |
| Leave Encashment                                       | 0.00         | 0.00           | 0.00           | 0.00          | 7,802,724.00   | 7,802,724.00   |
| <b>TOTAL</b>   | 0.00         | 325,581,115.00 | 325,581,115.00 | 0.00          | 307,075,568.00 | 307,075,568.00 |

**SCHEDULE 15 A- EMPLOYEES RETIREMENT AND TERMINAL BENEFITS**

|   | <b>Pension</b> | <b>Gratuity</b> | <b>Leave<br/>Encashment</b> | <b>Total</b> |
|---|----------------|-----------------|-----------------------------|--------------|
| Opening Balance as on ____  |                |                 |                             |              |
| Addition : Capitalized value of Contributions Received from other Organizations |                |                 |                             |              |
| Total (a)   |                |                 |                             |              |
| Less: Actual Payment during the Year (b)  |                |                 |                             |              |
| Balance Available on 31.03 c (a-b)  |                |                 |                             |              |
| Provision required on 31.03 as per Actuarial Valuation (d)                      |                |                 |                             |              |
| A. Provision to be made in the Current year (d -c)                              |                |                 |                             |              |
| B. Contribution to New Pension Scheme   |                |                 |                             |              |
| C. Medical Reimbursement to Retired Employees                                   |                |                 |                             |              |
| D. Travel to Hometown on Retirement   |                |                 |                             |              |
| E. Deposit Linked Insurance Payment   |                |                 |                             |              |
| <b>Total (A+B+C+D+E)</b>  |                |                 |                             |              |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

**NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)**  
**SCHEDULE FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 31/03/2016**

**SCHEDULE 16- ACADEMIC EXPENSES**

|  | Current Year         |                      |                      | Previous Year        |                     |                      |
|--|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|
|  | Plan                 | Non-Plan             | Total                | Plan                 | Non-Plan            | Total                |
| a) Laboratory expenses                     | 0.00                 | 1,819,383.00         | 1,819,383.00         |                      | 3,031,208.00        | 3,031,208.00         |
| b) Field work/Participation in Conferences | 0.00                 | 0.00                 | 0.00                 |                      | 0.00                | 0.00                 |
| c) Expenses on Seminars/Workshops          | 0.00                 | 318,777.00           | 318,777.00           |                      | 986,676.00          | 986,676.00           |
| d) Payment to visiting faculty .           | 0.00                 | 0.00                 | 0.00                 |                      | 0.00                | 0.00                 |
| e) Examination                             | 0.00                 | 1,096,223.00         | 1,096,223.00         |                      | 1,128,053.00        | 1,128,053.00         |
| f) Student Welfare expenses                | 0.00                 | 467,256.00           | 467,256.00           |                      | 326,396.00          | 326,396.00           |
| g) Admission expenses --                   | 0.00                 | 0.00                 | 0.00                 |                      | 0.00                | 0.00                 |
| h) Convocation expenses                    | 0.00                 | 587,750.00           | 587,750.00           |                      | 1,055,557.00        | 1,055,557.00         |
| i) Publications                            | 0.00                 | 92,700.00            | 92,700.00            |                      | 0.00                | 0.00                 |
| j) Stipend/means-cum-merit scholarship     | 79,322,937.00        | 0.00                 | 79,322,937.00        | 48,665,980.00        | 0.00                | 48,665,980.00        |
| k) Subscription Expenses                   | 0.00                 | 3,104,351.00         | 3,104,351.00         |                      | 1,002,918.00        | 1,002,918.00         |
| l) Others (specify) academic expenses      | 0.00                 | 2,640,839.00         | 2,640,839.00         |                      | 2,343,189.00        | 2,343,189.00         |
| m) Accreditation to AICTE Expenses         | 0.00                 | 50,000.00            | 50,000.00            |                      | 50,000.00           | 50,000.00            |
| <b>Total</b>                               | <b>79,322,937.00</b> | <b>10,177,279.00</b> | <b>89,500,216.00</b> | <b>48,665,980.00</b> | <b>9,923,997.00</b> | <b>58,589,977.00</b> |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

## NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)

## SCHEDULE FORMING PART OF INCOME &amp; EXPENDITURE FOR THE PERIOD/YEAR ENDED 31/03/2016

## SCHEDULE 17- ADMINISTRATIVE AND GENERAL EXPENSES

|  | Current Year |               |               | Previous Year |               |               |
|--|--------------|---------------|---------------|---------------|---------------|---------------|
|  | Plan         | Non-Plan      | Total         | Plan          | Non-Plan      | Total         |
| <b>-</b>   |              |               |               |               |               |               |
| <b>A Infrastructure</b>                          |              |               |               |               |               |               |
| a) Electricity and power                         | 0.00         | 7,253,332.00  | 7,253,332.00  | 0.00          | 7,035,229.00  | 8,583,433.00  |
| b) Water charges                                 | 0.00         | 1,334,190.00  | 1,334,190.00  | 0.00          | 1,548,204.00  |               |
| c) Insurance                                     | 0.00         | 0.00          | 0.00          | 0.00          |               |               |
| d) Rent, Rates and Taxes (including propertytax) | 0.00         | 0.00          | 0.00          | 0.00          |               |               |
| <b>B Communication</b>                           |              |               |               |               |               |               |
| e) Postage and Stationery                        | 0.00         | 221,045.00    | 221,045.00    | 0.00          | 203,238.00    | 417,253.00    |
| f) Telephone, Fax and Internet Charges           | 0.00         | 210,758.00    | 210,758.00    | 0.00          | 214,015.00    |               |
| <b>C Others</b>                                  |              |               |               |               |               |               |
| g) Printing and Stationery (consumption)         | 0.00         | 2,072,258.00  | 2,072,258.00  | 0.00          | 1,171,747.00  | 33,507,649.00 |
| h) Travelling and Conveyance Expenses            | 0.00         | 4,554,828.00  | 4,554,828.00  | 0.00          | 3,176,617.00  |               |
| i) Hospitality .                                 | 0.00         | 1,204,920.00  | 1,204,920.00  | 0.00          | 822,861.00    |               |
| j) Auditors Remuneration                         | 0.00         | 584,977.00    | 584,977.00    | 0.00          | 9,915.00      |               |
| k) Professional Charges                          | 0.00         | 0.00          | 0.00          | 0.00          | 67,884.00     |               |
| l) Advertisement and Publicity                   | 0.00         | 7,296,357.00  | 7,296,357.00  | 0.00          | 9,539,112.00  |               |
| m) Magazines & Journals                          | 0.00         | 0.00          | 0.00          | 0.00          |               |               |
| n) Others Misc Administrative expenses           | 0.00         | 1,058,521.00  | 1,058,521.00  | 0.00          | 737,809.00    |               |
| o) Security Charges                              | 0.00         | 15,394,826.00 | 15,394,826.00 | 0.00          | 17,087,588.00 |               |
| p) Legal expenses                                | 0.00         | 521,021.00    | 521,021.00    | 0.00          | 894,116.00    |               |
| <b>Total</b>                                     | 0.00         | 41,707,033.00 | 41,707,033.00 | 0.00          |               | 42,508,335.00 |



**SCHEDULE 18-TRANSPORTATION EXPENSES**

Amount in Rupees

| Particulars                              | Current Year |              |              | Previous Year |              |              |
|--|--------------|--------------|--------------|---------------|--------------|--------------|
|  | Plan         | Non-Plan     | Total        | Plan          | Non-Plan     | Total        |
| <b>1 Vehicles (owned by institution)</b> |              |              |              |               |              | 0.00         |
| a) Running expenses                      | 0.00         | 1,001,379.00 | 1,001,379.00 | 0.00          | 1,056,827.00 | 1,056,827.00 |
| b) Repairs & maintenance                 | 0.00         | 623,660.00   | 623,660.00   | 0.00          | 499,133.00   | 499,133.00   |
| c) Insurance expenses                    | 0.00         | 125,028.00   | 125,028.00   | 0.00          | 157,106.00   | 157,106.00   |
| <b>2 Vehicles taken on rent/lease</b>    | 0.00         | 0.00         | 0.00         | 0.00          | 0.00         | 0.00         |
| a) Rent/lease expenses                   | 0.00         | 0.00         | 0.00         | 0.00          | 0.00         | 0.00         |
| <b>3 Vehicle (Taxi) hiring expenses</b>  | 0.00         | 0.00         | 0.00         | 0.00          | 0.00         | 0.00         |
| <b>Total</b>                             | 0.00         | 1,750,067.00 | 1,750,067.00 | 0.00          | 1,713,066.00 | 1,713,066.00 |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

**NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)****SCHEDULE FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 31/03/2016****SCHEDULE 19- REPAIR & MAINTENANCE**

Amount in Rupees

| Particulars                          | Current Year  |          |               | Previous Year |          |              |
|--------------------------------------|---------------|----------|---------------|---------------|----------|--------------|
|                                      | Plan          | Non-Plan | Total         | Plan          | Non-Plan | Total        |
| a) Buildings                         | 30,947,194.00 | 0.00     | 30,947,194.00 | 8,121,949.00  | 0.00     | 8,121,949.00 |
| b) Furniture & Fixtures              | 4,710.00      | 0.00     | 4,710.00      |               | 0.00     | 0.00         |
| c) Plant & Machinery                 | 0.00          | 0.00     | 0.00          | 5,644,790.00  | 0.00     | 5,644,790.00 |
| d) Office Equipment                  | 874,048.00    | 0.00     | 874,048.00    | 934,548.00    | 0.00     | 934,548.00   |
| e) Computers                         | 0.00          | 0.00     | 0.00          |               | 0.00     | 0.00         |
| f) Laboratory & Scientific equipment | 148,746.00    | 0.00     | 148,746.00    | 146,606.00    | 0.00     | 146,606.00   |

|   |                      |             |                      |                      |             |                      |
|---|----------------------|-------------|----------------------|----------------------|-------------|----------------------|
| g) Audio Visual equipment                         | 0.00                 | 0.00        | 0.00                 |                      | 0.00        | 0.00                 |
| h) Cleaning Material & Services                   | 8,698,044.00         | 0.00        | 8,698,044.00         | 8,438,553.00         | 0.00        | 8,438,553.00         |
| i) Book binding charges                           | 0.00                 | 0.00        | 0.00                 |                      | 0.00        | 0.00                 |
| j) Gardening                                      | 0.00                 | 0.00        | 0.00                 |                      | 0.00        | 0.00                 |
| k) Estate Maintenance                             | 0.00                 | 0.00        | 0.00                 | 6,286,815.00         | 0.00        | 6,286,815.00         |
| l) Others Water supply                            | 0.00                 | 0.00        | 0.00                 | 1,426,168.00         | 0.00        | 1,426,168.00         |
| m) Road   | 0.00                 | 0.00        | 0.00                 | 3,156,562.00         | 0.00        | 3,156,562.00         |
| n) Street light                                   | 0.00                 | 0.00        | 0.00                 | 1,248,195.00         | 0.00        | 1,248,195.00         |
| o) Oxidation Pond                                 | 0.00                 | 0.00        | 0.00                 | 3,023,377.00         | 0.00        | 3,023,377.00         |
| p) Maintenance of Enterance Flayer In Admin Block | 0.00                 | 0.00        | 0.00                 | 3,209,101.00         | 0.00        | 3,209,101.00         |
| <b>Total</b>                                      | <b>40,672,742.00</b> | <b>0.00</b> | <b>40,672,742.00</b> | <b>41,636,664.00</b> | <b>0.00</b> | <b>41,636,664.00</b> |

**SCHEDULE 20- FINANCE COSTS**Amount in  
Rupees

| Particulars         | Current Year |               |               | Previous Year |                 |                 |
|---------------------|--------------|---------------|---------------|---------------|-----------------|-----------------|
|                     | Plan         | Non-Plan      | Total         | Plan          | Non-Plan        | Total           |
| a) Bank charges     | 0.00         | 229.00        | 229.00        | 0.00          | 4,806.00        | 4,806.00        |
| b) Others (specify) | 0.00         | 0.00          | 0.00          | 0.00          | 0.00            | 0.00            |
| <b>Total</b>        | <b>0.00</b>  | <b>229.00</b> | <b>229.00</b> | <b>0.00</b>   | <b>4,806.00</b> | <b>4,806.00</b> |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

**NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P)**  
**SCHEDULE FORMING PART OF INCOME & EXPENDITURE FOR THE PERIOD/YEAR ENDED 31/03/2016**

**SCHEDULE 21- OTHER EXPENSES**

Amount in Rupees

| Particulars   | Current Year |          |       | Previous Year |          |       |
|---|--------------|----------|-------|---------------|----------|-------|
|   | Plan         | Non-Plan | Total | Plan          | Non-Plan | Total |
| a) Provision for Bad and Doubtful Debts/Advances        | 0.00         | 0.00     | 0.00  | 0.00          | 0.00     | 0.00  |
| b) Irrecoverable Balances Written- off                  | 0.00         | 0.00     | 0.00  | 0.00          | 0.00     | 0.00  |
| c) Grants/Subsidies to other institutions/organizations | 0.00         | 0.00     | 0.00  | 0.00          | 0.00     | 0.00  |
| d) Others Student Co-curricular Activities              | 0.00         | 0.00     | 0.00  | 0.00          | 0.00     | 0.00  |
| <b>Total</b>  | 0.00         | 0.00     | 0.00  | 0.00          | 0.00     | 0.00  |

**SCHEDULE 22: PRIOR PERIOD EXPENSES**

Amount in Rupees

| Particulars               | Current Year |            |            | Previous Year |          |       |
|---------------------------|--------------|------------|------------|---------------|----------|-------|
|                           | Plan         | Non-Plan   | Total      | Plan          | Non-Plan | Total |
| 1 Establishment expenses  | 0.00         | 611,358.00 | 611,358.00 | 0.00          | 0.00     | 0.00  |
| 2 Academic expenses       | 0.00         | 0.00       | 0.00       | 0.00          | 0.00     | 0.00  |
| 3 Administrative expenses | 0.00         | 0.00       | 0.00       | 0.00          | 0.00     | 0.00  |
| 4 Transportation expenses | 0.00         | 0.00       | 0.00       | 0.00          | 0.00     | 0.00  |
| 5 Repairs & Maintenance   | 0.00         | 0.00       | 0.00       | 0.00          | 0.00     | 0.00  |
| 6 Other expenses          | 0.00         | 0.00       | 0.00       | 0.00          | 0.00     | 0.00  |
| <b>Total</b>              | 0.00         | 611,358.00 | 611,358.00 | 0.00          | 0.00     | 0.00  |

**DY. REGISTRAR ( ACCOUNTS)**  
**NIT, HAMIRPUR (H.P)**

**NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P.)**  
**RECEIPTS AND PAYMENTS ACCOUNT FOR THE PERIOD/YEAR ENDED 31/03/2016**

(Amount-Rs)

| RECEIPTS  | CURRENT YEAR   | PREVIOUS YEAR  |  | PAYMENTS  | CURRENT YEAR   | PREVIOUS YEAR  |
|---|----------------|----------------|--|---|----------------|----------------|
| I. Opening Balances   |                |                |  | 1. Expenses   |                |                |
| a) Cash Balances  | 227,856.05     | 132,470.05     |  | a) Establishment Expenses                               | 319,127,697.00 | 304,139,929.00 |
| b) Bank Balance   |                |                |  | b) Academic Expenses                                    | 92,834,426.00  | 57,593,779.00  |
| In Current accounts   |                |                |  | c) Administrative Expenses                              | 45,621,372.00  | 45,368,574.00  |
| In Deposit Accounts   | 587,453,352.00 | 453,615,458.00 |  | d) Transportation Expenses                              | 0.00           | 0.00           |
| Savings accounts  | 46,482,772.25  | 14,962,004.40  |  | e) Repairs & Maintenance                                | 42,478,933.00  | 42,683,381.00  |
|   |                |                |  | f) Prior period expenses                                | 611,358.00     | 0.00           |
|   |                |                |  | g) Student curricular Activities                        | 1,723,575.00   | 1,730,166.00   |
| II. Grants Received   |                |                |  | II. Payments against Earmarked/Endowment Funds          |                |                |
| a) From Government of India   | 630,000,000.00 | 820,000,000.00 |  |   |                |                |
| b) From State Government  | 20,000,000.00  | 0.00           |  |   |                |                |
| c) From other sources (details)                                       |                |                |  |   |                |                |
| (Grants for capital & revenue exp/ to be shown sepretaly if available |                |                |  |   |                |                |
| III. Academic Receipts  |                |                |  | III. Payments against Sponsored Projects/Schemes        |                |                |
|   | 155,567,432.49 | 117,511,458.40 |  |   |                |                |
| IV. Receipts against Earmarked/Endowment Funds                        |                |                |  | IV. Payments against Sponsored Fellowships/Scholarships |                |                |
| V. Receipts against Sponsored   |                |                |  | V. Investments and Deposits made                        |                |                |

| Projects/Schemes  |                |                |  | a} Out of Earmarked/Endowments funds<br>b) Out of own funds (Investments- Others  |                |                |
|---|----------------|----------------|--|---|----------------|----------------|
| VI. Receipts against sponsored Fellowships Scholarships                                 |                |                |  | VI. Term Deposits with Scheduled Banks  |                |                |
| VII. Income on Investments from<br>a} Earmarked/Endowment funds<br>b) Other investments |                |                |  | VII. Expenditure on Fixed Assets and capital WIP<br>b) Other investments a} Fixed Assets<br>b) Capital Works- in-Progress | 160,989,190.00 | 362,996,029.00 |
| VIII. Interest received on  |                |                |  | VIII. Other Payments including statutory payments   |                |                |
| a) Bank Deposits  | 26,452,514.00  | 19,793,461.00  |  |   |                |                |
| b) Loans and Advances   |                |                |  |   |                |                |
| c) Savings Bank Accounts  |                |                |  |   |                |                |
| d) Project grant  | 943,213.00     | 1,475,697.00   |  |   |                |                |
| IX. Investments encashed  |                |                |  | IX. Refunds of Grants   |                |                |
| X. Term Deposits with Scheduled Banks encashed  |                |                |  | X. Deposits, Advances and Stock   | 334,550,334.00 | 291,892,822.00 |
| XI. Other income (including Prior Period Income)  | 17,032,631.00  | 16,494,315.00  |  | XI. Other Payments  | 0.00           | 11,275,073.00  |
| XII. Deposits, Advances and Stock   | 430,994,129.37 | 291,379,089.45 |  | XII. Closing balances<br>a) Cash in hand<br>b) Bank balances  | 273,463.05     | 227,856.05     |

|   |                         |                         |  |   |                                 |                                 |
|---|-------------------------|-------------------------|--|---|---------------------------------|---------------------------------|
|   |                         |                         |  | In Current Accounts<br>In Savings Accounts<br>In Deposit Accounts | 93,533,732.11<br>829,392,245.00 | 46,482,772.25<br>587,453,352.00 |
| XIII. Miscellaneous Receipts including Statutory Receipts |                         |                         |  |   |                                 |                                 |
| XIV. Any Other Receipts                                   | 5,982,425.00            | 16,479,780.00           |  |   |                                 |                                 |
| <b>TOTAL</b>  | <b>1,921,136,325.16</b> | <b>1,751,843,733.30</b> |  | <b>TOTAL</b>  | <b>1,921,136,325.16</b>         | <b>1,751,843,733.30</b>         |

**Dy. Registrar (Accounts)**  
**NIT HAMIRPUR (H.P)**

**Registrar**  
**NIT HAMIRPUR (H.P)**

**Director**  
**NIT HAMIRPUR (H.P)**

**SCHEDULE: 23****SIGNIFICANT ACCOUNTING POLICIES (ILLUSTRATIVE)****1. BASIS FOR PREPARATION OF ACCOUNTS**

The accounts are prepared under the Hospital Cost Convention unless otherwise stated and generally on the Accrual method of accounting.

**2. REVENUE RECOGNITION**

2.1 Fees from Students and Interest on Saving Bank account are accounted on accrual basis.

2.2 Income from Land, Buildings and Other Property and Interest on Investments are accounted on accrual basis.

2.3 Interest on interest bearing advances to staff for House Building, Purchase of Vehicles and computers is accounted on accrual basis every year, through the actual recovery of interest starts after the full repayment of Principal.

**3. FIXED ASSETS AND DEPRECIATION**

3.1 Fixed assets are stated at cost of acquisition including inward freight, duties and taxes and incidental and direct expenses related to acquisition, installation and commissioning.

3.2 Gifted/ Donated assets are valued at the declared value where available ; if not available, The value is estimated based on the present market value adjusted with reference to the physical Condition of the asset. They are set-up by credit to Capital Fund and merged with the Fixed Assets of the Institution. Depreciation is charged at the rates applicable to the respective assets.

3.3 Books received as gifts, are valued at selling prices printed on the books. Where they are not printed , the value is based on assessment.

3.4 Fixed assets are valued at cost less accumulated depreciation. Depreciation on fixed assets is provided on Straight line method, at the following rates:

|    |                                       |      |
|----|---------------------------------------|------|
| 1  | Land                                  | 0%   |
| 2  | Site Development                      | 0%   |
| 3  | Building                              | 2%   |
| 4  | Roads & Bridges                       | 2%   |
| 5  | Tubes wells & Water Supply            | 2%   |
| 6  | Sewerage & Drainage                   | 2%   |
| 7  | Electrical Installation and equipment | 5%   |
| 8  | Plant & Machinery                     | 5%   |
| 9  | Scientific & Laboratory Equipment     | 8%   |
| 10 | Office Equipment                      | 7.5% |
| 11 | Audio Visual Equipment                | 7.5% |
| 12 | Computer & Peripherals                | 20%  |
| 13 | Furniture, Fixtures & Fittings        | 7.5% |
| 14 | Vehicles                              | 10%  |
| 15 | Lib. Books & Scientific Journals      |      |

3.5 Depreciation is provided for the whole year on additions during the years

3.6 Where an asset is fully depreciated, it will be carried at a residual value of Re.1 in the Balance Sheet and will not be further depreciated. Therefore, depreciation is calculated on the additions of each year separately at the rate of depreciation application for the that asset head.

3.7 Assets created out of Earmarked Funds and funds Sponsored Projects, where the ownership of such assets vests in the Institution, are setup by credit to Capital Fund and merged with the Fixed Assets of the Institution. Depreciation is charged at the rates applicable to the respective assets. Assets created out of Sponsored Project funds, where the ownership is retained by the sponsors but held and used by the Institution are separately disclosed in the Notes on Accounts.

3.8 Assets, the individual value of each of which is Rs. 2000 or less (except Library Books) are treated as Small Value Assets, 100% depreciation is provided in respect of such assets at the time of their acquisition. However physical accounting and control are continued by the holders of assets.

#### **4 Intangible Assets: NIL**

**5.STOCKS:** Expenditure on purchase of chemicals, glassware, publications and other stores is accounted as revenue expenditure, except that the value of closing stocks held 31<sup>st</sup> March is set up as inventories by reducing the corresponding Revenue Expenditure on the basis of information obtained from Departments. They are valued at cost.

**6. RETIREMENT BENEFITS:** The Actual payments of Pension, Gratuity and Leave encashment are debited in the Accounts to the respective provisions. Other retirement benefits viz. Deposit Linked Insurance, Contribution to New Pension Scheme, Medical reimbursement to retired employees and Travel to Home on retirement are accounted on accrual basis (actual payments plus outstanding bills at the end of the year).

#### **7. INVESTMENTS**

a) Long term investments are carried at their cost or face value whichever is lower. However any permanent diminution in their value as on the date of the Balance Sheet is provide for.

b) Short Term investments are carried at their cost or market value (if quoted) whichever is lower.

#### **8. Earmarked/Endowment Funds**

The Pension fund is earmarked for specific purpose. The fund has a separate bank account

#### **9. GOVERNMENT AND UGC GRANTS**

9.1 Government Grant and UGC grants are accounted on realization basis. However, where a sanction for release of grant pertaining to the financial year is received before 31<sup>st</sup> March and the grant is actually received in the next financial year, the grant accounted on accrual basis and an equal amount is shown as recoverable from the Granter.



9.2 To the extent utilized capital expenditure, (on accrual basis) government grants and grants from UGC are transferred to the Capital Fund.

9.3 Government and UGC grants for meeting Revenue Expenditure (on accrual basis) are treated, to the extent utilized, as income of the year in which they are realized.

9.4 Unutilized grants (including advances paid out of such grants) are carried forward and exhibited as a liability in the Balance Sheet.

**10. INVESTMENTS OF EARMARKED FUNDS AND INTEREST INCOME ACCRUED ON SUCH INVESTMENTS:** To the extent not immediately required for expenditure, the amounts available against such funds are invested in approved Securities & Bonds or deposited for fixed term with Banks, leaving the balance in Saving Bank Accounts.

**11. SPONSORED PROJECTS:** In respect of ongoing Sponsored Projects, the amounts received from sponsors are credited to the head “Current Liabilities and Provisions-Current Liabilities-Other Liabilities –Receipts against ongoing sponsored projects.” As and when expenditure is incurred /advances are paid against such projects, or the concerned projects account is debited with allocated overhead charges, the liability account is debited.

11.2 In addition to the Earmarked Fund for the Junior Research Fellowships funded by the University Grants Commission, Fellowships and Scholarships are also sponsored by various organizations. These are accounted in the same way as Sponsored Projects expect that the expenditure generally is only on disbursement of Fellowships and Scholarships, which may include allowances for contingent expenditure by the Fellows and scholars.

11.3 The Institution itself also awards Fellowships and Scholarships, which are accounted as Academic expenses.

**12. INCOME TAX:** The income of the Institution is exempt from Income Tax under Section 10(23c) of the Income Tax Act. No provision for tax is therefore made in the accounts.

**SCHEDULE:24**

**CONTINGENT LIABILITIES AND NOTES TO ACCOUNTS( ILLUSTRATIVE)**

**1. CONTINGENT LIABILITIES: NIL**

**2.FIX ASSETS:**

**2.1** Additions in the year to Fixed Assets in Schedule 4 include Assets purchased out of Plan Funds.

**2.2** In the Balance Sheet as on 31.3.2016 and the Balance Sheets of earlier years Fixed Assets created out of plan funds.

**3. CURRENT ASSETS, LOANS, ADVANCES AND DEPOSITS:** In the opinion of the Management the current assets, Loans, Advances and Deposits have a value on realization in the ordinary course, equal at least to the aggregate amount shown in the Balance Sheet.

**4.** The details of balances in Saving Bank Accounts, Current Accounts and Fixed Deposit Accounts with Banks are enclosed as attachment 'A' to the Schedule of Current Assets.

**5.** Previous year's figures have been regrouped wherever necessary.

**6.** Schedules 1 to 24 are annexed to and form an integral part of the Balance Sheet at 31 "March 2016 and the Income & Expenditure account for the year ended on that date.

**NATIONAL INSTITUTE OF TECHNOLOGY  
HAMIRPUR (H.P)  
GENERAL PROVIDENT FUND  
BALANCE SHEET  
AS ON 31/03/2016**

| <b>P-YEAR</b>  | <b>HEAD OF ACCOUNT</b>                        | <b>AMOUNT(RS)</b> |                |
|----------------|---|-------------------|----------------|
|                | <b><u>LIABILITIES</u></b>                     |                   |                |
|                | <b>Subscription Account (PF Contribution)</b> |                   |                |
| 281,912,322.55 | Upto 2015                                     | 330,125,504.55    |                |
| 48,213,182.00  | During the year                               | 52,171,403.00     |                |
| 330,125,504.55 |   | 382,296,907.55    |                |
|                | Add: Interest                                 |                   |                |
| 111,149,887.45 | Upto 2015                                     | 131,946,667.45    |                |
| 20,796,780.00  | During the year                               | 22,903,763.00     |                |
| 131,946,667.45 |   | 154,850,430.45    |                |
|                | Less: Withdrwal                               |                   |                |
| 172,372,936.00 | Upto 2015                                     | 198,489,142.00    |                |
| 26,116,206.00  | During the year                               | 38,238,199.00     |                |
| 198,489,142.00 |   | 236,727,341.00    | 300,419,997.00 |
| 263,583,030.00 |   |                   |                |
|                | <b>Income &amp; Expenditure Account</b>       |                   |                |
| 9,956,005.64   | Upto 2015                                     | 4,813,411.64      |                |
| -5,142,594.00  | During the year                               | 9,067,017.00      | 13,880,428.64  |
| 4,813,411.64   |   |                   |                |
| 268,396,441.64 |   |                   | 314,300,425.64 |
|                | <b><u>ASSETS</u></b>                          |                   |                |
|                | <b>Temporary Advance</b>                      |                   |                |
| 27,820,048.00  | Up to 2015                                    | 29,538,048.00     |                |
| 1,718,000.00   | During the year                               | 2,433,500.00      |                |
| 29,538,048.00  |   | 31,971,548.00     |                |
|                | Less: refund                                  |                   |                |
| 26,854,883.00  | Upto 2015                                     | 28,755,883.00     |                |
| 1,901,000.00   | During the year                               | 1,976,800.00      |                |
| 28,755,883.00  |   | 30,732,683.00     | 1,238,865.00   |
| 782,165.00     |   |                   |                |
|                | <b>Bank Interest Accured</b>                  |                   |                |
| 10,763,019.00  | Opening Balance                               | 13,779,906.00     |                |
| 13,779,906.00  | ADD: (C-Year accrued)                         | 17,080,221.00     |                |
| 24,542,925.00  |   | 30,860,127.00     |                |
| 10,763,019.00  | Less: Interest received on Maturity           | 13,779,906.00     | 17,080,221.00  |
| 13,779,906.00  |   |                   |                |
| 253,834,370.64 | <b>Closing Balance Bank</b>                   |                   | 295,981,339.64 |
| 268,396,441.64 |   |                   | 314,300,425.64 |

**DY. REGISTRAR ( ACCOUNTS)  
NIT, HAMIRPUR (H.P)**

**REGISTRAR  
NIT, HAMIRPUR (H.P)**

**DIRECTOR  
NIT, HAMIRPUR (H.P)**

**NATIONAL INSTITUTE OF TECHNOLOGY  
HAMIRPUR (H.P)  
GENERAL PROVIDENT FUND  
RECEIPTS AND PAYMENTS ACCOUNT  
FOR THE YEAR 01/04/2015 TO 31/03/2016**

| <b>Previous<br/>Year(Rs)</b>                             | <b>RECEIPTS<br/>HEAD OF ACCOUNT</b>      | <b>AMOUNT(RS)</b>                       |
|--|--|---|
| 218,917,095.64   | CASH IN BANK                             | 253,834,370.64                          |
| 48,213,182.00  | SUBSCRIPTION                             | 52,171,403.00                           |
| 1,901,000.00   | REFUND OF ADVANCE                        | 1,976,800.00                            |
| 12,637,529.00  | BANK INTEREST                            | 28,670,658.00                           |
| 281,668,806.64   |  | 336,653,231.64                          |
|  | <b>PAYMENTS</b>                          |   |
| 1,718,000.00   | TEM. ADVANCE TO STAFF                    | 2,433,500.00                            |
| 26,116,206.00  | WITHDRAWAL                               | 38,238,199.00                           |
| 230.00   | BANK CHARGES                             | 193.00                                  |
| 253,834,370.64   | CLOSING BANK BALANCE                     | 295,981,339.64                          |
| 281,668,806.64   |  | 336,653,231.64                          |
| <b>DY. REGISTRAR ( ACCOUNTS)<br/>NIT, HAMIRPUR (H.P)</b> | <b>REGISTRAR<br/>NIT, HAMIRPUR (H.P)</b> | <b>DIRECTOR<br/>NIT, HAMIRPUR (H.P)</b> |

**NATIONAL INSTITUTE OF TECHNOLOGY  
HAMIRPUR (H.P)  
GENERAL PROVIDENT FUND  
INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR 01/04/2015 TO 31/03/2016**

| <b>Previous<br/>Year(Rs)</b>                             | <b>EXPENDITURE<br/>HEAD OF ACCOUNT</b>          | <b>AMOUNT(RS)</b>                       |
|--|---|---|
| 20,796,780.00  | Interest credited to the<br>Subscribers Account | 22,903,763.00                           |
| 230.00   | Bank Charges                                    | 193.00                                  |
| -5,142,594.00  | Excess of +Income/-loss                         | 9,067,017.00                            |
| 15,654,416.00  |   | 31,970,973.00                           |
|  | <b>INCOME</b>                                   |   |
| 12,637,529.00  | Income from Investment:                         |   |
| 13,779,906.00  | Bank Interest received                          | 28,670,658.00                           |
| 10,763,019.00  | Add: Interest due for 2015-2016                 | 17,080,221.00                           |
| 15,654,416.00  | Less: Due of year 2014-2015                     | 13,779,906.00                           |
|  |   | 31,970,973.00                           |
| 15,654,416.00  |   | 31,970,973.00                           |
| <b>DY. REGISTRAR ( ACCOUNTS)<br/>NIT, HAMIRPUR (H.P)</b> | <b>REGISTRAR<br/>NIT, HAMIRPUR (H.P)</b>        | <b>DIRECTOR<br/>NIT, HAMIRPUR (H.P)</b> |

**SCHEDULE 7****Closing Balance:****ANNEXURE E**

|   |                    |
|---|--------------------|
| 1) General: 11159548375                   |                    |
| b) Bank                                   | 64366589.08        |
| 2) Consultancy: 11159549129               |                    |
| a) Bank                                   | 10403564.49        |
| 3) SC Sch: 30312030289                    |                    |
| a) Bank                                   | 524995             |
| 4) ST Sch: 30312092757                    |                    |
| a) Bank                                   | 715375             |
| 5) Corpus Fund: 11159549107               |                    |
| a) Bank                                   | 1722.01            |
| 6) Pension Fund: 11159548080              |                    |
| a) Bank                                   | 2773169.08         |
| 7) Project 11159548386                    |                    |
| a) Bank                                   | 15452.45           |
| 8) Four Fund 09272151003846               |                    |
| a) Bank                                   | 10130              |
| 9) Consultancy & Testing Hospitality fund |                    |
| Bank                                      | 150793             |
| 10) Institute Share Bank                  | 6699839            |
| 11) State Bank Xen Office: 11159545090    |                    |
| b) Bank                                   | 7872103            |
| <b>Total</b>                              | <b>93533732.11</b> |

**Dy. Registrar (Accounts),  
NIT, Hamirpur (HP)**

## LIST OF ASSETS PURCHASED DURING THE YEAR 2015-16 IN CONSTRUCTION CELL, NIT, HAMIRPUR (H.P.)

“Annexure-B”

| Sr. No | Name of Institution | No. & date of sanction                                | Amount of sanction grant | Brief purpose of the Grant   | Whether any condition regarding the right of ownership of Govt. in the property or other assets acquired out of the grants as incorporated in the grants-in-aid sanctioned. | Particulars of assets actually credited or acquired                        | Qty.              | Amount as on 31.3.2016 | Purpose for which utilized   |
|--------|---------------------|---|--------------------------|--|---|--|-------------------|------------------------|------------------------------|
|        |                     | F. NO. 34-2/2/2013-TS-III dated 4/6/2013 & 27/12/2013 |                          | To develop the lab/dept for created out research/practical works by the students | Yes   |  |                   |                        | For lab work by the students |
| 1      | -do-                | -do-  |                          | -do-   | -do-  | Renovation of HOD Room/Conference Hall & PA Room in Elect Engg. Department | (SH;- Civil work) | 1981476                | -do-                         |
| 2      | -do-                | -do-  |                          | -do-   | -do-  | Providing access to Arch dept. For the student from the rear end           |                   | 705353                 | -do-                         |

|   |      |      |      |      |      |      |      |  |                   |         |      |  |
|---|------|------|------|------|------|------|------|--|-------------------|---------|------|--|
|   | -do- | -do- | -do- | -do- | -do- | -do- | -do- | Renovation of TIFAC Core Lab   |                   | 1762712 | -do- |  |
| 4 | -do- | -do- | -do- | -do- | -do- | -do- | -do- | Providing lift to Library Building in NIT Hamirpur   |                   | 1941455 | -do- |  |
| 5 | -do- | -do- | -do- | -do- | -do- | -do- | -do- | C/o parking space at Various location in Academic area in NIT Hamirpur                               |                   | 1293529 | -do- |  |
| 6 | -do- | -do- | -do- | -do- | -do- | -do- | -do- | Partitioning of central lab with dust proof & air condition PG lab section & partitioning lab of EED | (SH;- Civil work) | 736552  | -do- |  |
| 7 | -do- | -do- | -do- | -do- | -do- | -do- | -do- | Minor Civil work in labs of COD  | (SH;- Civil work) | 580796  | -do- |  |
| 8 | -do- | -do- | -do- | -do- | -do- | -do- | -do- | Provisioning of Extra Electrical points in various labs of Mechanical Engg. Department civil work-II |                   | 872658  | -do- |  |



|    |      |      |      |      |      |      |      |  |                              |          |      |  |
|----|------|------|------|------|------|------|------|--|------------------------------|----------|------|--|
| 9  | -do- | -do- | -do- | -do- | -do- | -do- | -do- | Partition in Top floor of Estate Office  |                              | 422422   | -do- |  |
| 10 | -do- | -do- | -do- | -do- | -do- | -do- | -do- | C/o approach to 48 Nos. Qtrs faculty houses.   |                              | 1118066  | -do- |  |
| 11 | -do- | -do- | -do- | -do- | -do- | -do- | -do- | Providing lift to Library Building   | (SH;- Prov. 8 Passenger lift | 1428289  | -do- |  |
| 12 | -do- | -do- | -do- | -do- | -do- | -do- | -do- | Providing ATS oannel for 320 KVA generator in interconnection of UPS panel in Ambika Girl Hostel |                              | 696710   | -do- |  |
| 13 | -do- | -do- | -do- | -do- | -do- | -do- | -do- | Providing boundary wall in new campus( SH: faculty House).                                       |                              | 2554976  | -do- |  |
|    |      |      |      |      |      |      |      | Total  |                              | 14113518 | -do- |  |





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