**FOREWORD**

It is a privilege for me to present the 56th Annual Report of National Institute of Technology Srinagar, Hazratbal Srinagar Kashmir (J&K) for the year 2015-16. Our Institute established in 1960, offers eight (08) B.Tech. programmes in various branches of Engineering, (11) P.G. programmes (M.Tech. / M.Sc.) in addition to Ph.D. programme in all the Departments and also M.Phil. programme in the Faculty of Applied Sciences. Our faculty actively participated in National and International Conferences/Seminars, Workshops, expert lectures and other related research activities and presented a good number of papers in these conferences/Seminars during the year under report. The Institute also organized Conferences/Workshops on its own as well as in collaboration with other Institutions /organizations. Apart from these activities many R&D sponsored projects are in progress.

The Department of Training and Placement has been making enormous efforts for the placement of its students. During the year under report many multinational and national companies, both core and software visited our Institute for Campus recruitments. The placement has been satisfactory during the year under report. Further, the students of the Institute actively participated in various co-curricular and extra-curricular activities within and outside the Institute and won laurels.

The Institute rendered useful services to other sister Institutions and continued to offer expertise and consultancy services to various government/public/private organizations.

The Institute has made MoUs with some NITs, IITs, Research Organizations to strengthen teaching learning and research activities.

Even though the Institute suffered tremendously during the floods of September 2014, the academic calendar was implemented successfully during 2015-16, with the hard work of all the teaching and non-teaching staff members of the Institute and full support of the MHRD.

the guidance of Board of Governors in all matters especially that of Chairman, BOG Dr. M. J. Zarabi is highly appreciated.

Before I conclude, let me put on record my sincere gratitude to MHRD, Government of India, Chairman BOG, Members of the BOG/FC/Senate, faculty, staff and the students of this Institute for their co-operation and support in running the affairs of the Institute smoothly.

Last but not the least, I record my appreciation for the team under the Chairmanship of Registrar, Prof. F. A. Mir for compilation of the Annual Report 2015-16.

**(Prof. A. R. Dar)**

**Director**

**CONTENTS**

**1.0** **INTRODUCTION**

1.1 HISTORICAL BACKGROUND

1.2 THE CAMPUS & ITS LOCATION

1.3 ADMINISTRATION

**2.0 ACADEMICS**

2.1 EDUCATION SYSTEM

2.2 ACADEMIC PROGRAMMES

2.3 COURSES OFFERED

2.4 ADMISSION PROCEDURE

2.5 ACCADEMIC CALENDER

2.6 STUDENTS

2.7 EXAMINATION & EVALUATION

2.8 PLACEMENTS

2.9 GAMES & SPORTS

2.10 CAMPUS INFRASTRUCTURE

2.11 STAFF POSITION

**3.0 ACADEMIC STATISTICS**

3.1COURSES OFFERED

3.2 COURSE WISE ENROLMENT WITH CATEGORY WISE / GENDER BREAKUP

3.3 STUDENTS’ TOTAL STRENGTH

**4.0** **DEPARTMENTS AND CENTRES**

4.1 DEPARTMENTS

4.2 CENTRES

**5.0 STUDENT WELFARE**

5.1 CONCESSIONS PROVIDED TO STUDENTS

5.2 SCHOLORSHIPS

5.3 WELFARE SCHEMES FOR STAFF

**6.0 CENTRALISED SERVICES**

6.1 TRAINING AND PLACEMENTS

6.2 CENTRAL LIBRARY

6.3 PLANNING & DEVELOPMENT WING

6.4 CENTRAL WORKSHOP

6.5 CAD LABORATORIES

6.6 IGNOU PROGRAMME STUDY CENTER

6.7 PHYSICAL EDUCATION

6.8 STUDENTS RESIDENTIAL FACILITIES

6.9 RESIDENTIAL AND SHOPPING FACILITIES

6.10 MEDICAL UNIT

6.11 BANK

6.12 TELEPHONE EXCHANGE

6.13 TRANSPORT UNIT

6.14 POST OFFICE

**7.0 ACHIEVEMENTS & INITIATIVES**

**8.0 THE COUNCIL, BOG AND OTHER COMMITTEES**

8.1 INSTITUTE COUNCIL

8.2 BOARD OF GOVERNORS

8.3 FINANCE COMMITEE

8.4 SENATE

8.5 BUILDING AND WORKS COMMITTEE

**1.0. INTRODUCTION**

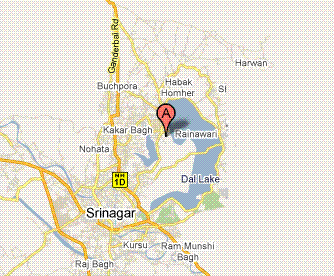
1.1. HISTORICAL BACKGROND

The National Institute of Technology (NIT) Srinagar, (erstwhile Regional Engineering College), was established in July, 1960, by the joint venture of Govt. of India and the State Government during the 2nd plan period. It was one among the first batch of 8 such Institutes which were set up in the country. The other seven Institutes were Allahabad, Bhopal, Durgapur, Jamshedpur, Nagpur, Surathkal, and Warangal.The Institute initially started functioning in the historical *Chinar* garden of *Naseem Bagh* at *Hazratbal,* Srinagar, adjacent to the campus of University of Kashmir on the North side which is about 1.5 kilometres away from the present Campus which was acquired for the Institute simultaneously and work of construction started. The Institute started shifting to the present campus in 1966.

In 2003 the Institute was declared as National Institute of Technology with Deemed University Status by the Ministry of Human Resource Development (MHRD), Govt. of India and University Grants Commission (UGC). Presently the Institute is functioning as a full fledged University. Even going through the difficult times due to conditions in the valley in 90’s, the Institute has proved its mettle through its output at various levels and has become a prestigious Institute of the region.



|  |  |  |
| --- | --- | --- |
| **1.2. THE CAMPUS & ITS LOCATION** |  |  |

The Institute is located in Srinagar ,the summer capital of J&K at Hazratbal, Srinagar 10KMS. From the city centre. The Campus is surrounded by the scenic Himalayan ranges, the Zabarwan Hills and world famous Dal Lake on its East side and the most revered shrine of the Country Hazratbal Shrine on the North side. Hazratbal is well connected with most parts of the city by a dependable road transport service.

The campus is about 22 KMs away from the airport on the national highway to Ladakh which is easily accessible by frequently plying transport. The nearest railway station is Jammu Tawi which is located about 304 km from the Institute campus. The Srinagar-Jammu highway passes through high mountain passes which are picturesque and enjoyable, and can be covered in about 7-8 hours by a private taxi/car. The Institute is having a lush green campus spread over 67 acres of land on the banks of world-famous Dal Lake.

The Institute is residential with accommodation facility for students and staff in hostels and Residential Quarters. There are five boys and one girls hostels which accommodate about 2000 boys and 200 girls with separate mess facility for each hostel.

Almost all necessary facilities and amenities are available in the campus which include cafeteria, shops, bank, medical unit with ambulances, guest house, students activity centre, gymnasium, computer services centre with internet facility, bus facility, centralized library etc.

1.3 ADMINISTRATION

National Institute of Technology Srinagar(J&K) is an autonomous Institute under the direct control of ministry of Human Resource Development (MHRD), Govt. of India (GOI). The Institute functions under the overall guidance and control of Board of Governors (BOG). Director is the academic and executive head of the Institute. He is the Ex-Officio of the Board of Governors and is responsible for maintaining proper administration and discipline and imparting instructions for smooth functioning and overall development of the Institute.

Director is assisted in the day-to-day affairs of the Institute by the Deans, Heads of the Departments & Centres, Registrar, Various committees and other officers. The various other Important Committees in addition to BOG, responsible for advising in respect of the various matters of the Institute, include:

**Senate** for Academic Affairs

**Finance Committee (FC)**  for Financial Matters

**Building Works Committee (BWC)** for Developmental Works

**2.0 ACADEMICS**

2.1. Education System

* 4- years full time Bachelor of Technology degree courses offered in Civil Engineering, Chemical Engineering, Computer Science Engineering, Electrical Engineering, Electronics and Communication Engineering, Information Technology , Mechanical Engineering and Metallurgical and Materials Engineering branches.
* Master of Technology (M.Tech) degree courses on full time & part- time basis offered in Civil Engineering, Electronics & Communication Engineering and Mechanical Engineering departments.
* The duration of M.Tech. course is of two years ( four semesters) for full time students and 3 years for those admitted under part-time. Part time enrolment is given only to sponsored candidates.
* Doctor of Philosophy (Ph.D.) degree is awarded by the Faculty of Engineering in all branches of engineering available in the departments.
* Master of Philosophy and Doctor of Philosophy is awarded by the faculty of applied science and Humanities & Social Science Department.
* The academic session is divided into two semesters, an autumn semester (August–December) and a Spring semester (March–July).
* The Semester system is enforced at both under-graduate (U.G.) and post graduate (P.G.) levels.
* The Senate approves the academic calendar consisting of schedule of activities for the whole year including dates for registration, semester examinations, inter-semester breaks, sports activities, annual day etc.
* Medium of instructions and examination for all courses including writing of dissertations of B.Tech. /M.Tech. /M.Phil. and Ph.D. thesis is British English.
* 05 days week period with at least 90 working days in each semester.
* Week days used for E.C.A. and other such activities.
* Credit Based continuous Assessment System with two minors and one major examination in each semester.
* Compulsory Practical training & visits to the work sites both at graduate and post graduate levels.

**2.2. ACADEMIC PROGRAMMES:**

The Institute offered various academic programmes comprising of 08 B. Tech. programmes in eight branches of engineering; 08 M. Tech. programmes in 04 engineering departments, M.Phil. programme in Sciences and HSS departments and Ph.D. programme in all the engineering, science and HSS departments.

The Institute has eight Engineering Departments, four Allied Departments and three Centres. These are:

**Engineering Departments**

i)Civil Engineering , ii)Mechanical Engineering, iii)Electrical Engineering, iv)Electronics and Communication Engineering, v)Chemical Engineering, vi)Metallurgical and Materials Engineering, vii)Computer Science & Engineering, and viii) Information Technology

**Allied Departments**

1. Mathematics ii)Physics, iii)Chemistry and iv)Humanities & Social Sciences.

**Centres**

i) Water Resources Management Centre ii) Maintenance Engineering Centre iii)Computer Services Centre iv) Central Research Facilities Centre v) Innovation, Incubation & Entrepreneurship Development Centre

**2.3. COURSES OFFERED**

**B. Tech. Degree programme**

The Institute offers four years (eight semesters) full- time B.Tech. degree programme in the following branches of engineering:-

1) Chemical Engineering;

2) Civil Engineering;

3) Computer Science Engineering;

4) Electrical Engineering;

5) Electronics and Communication Engineering;

6) Information Technology;

7) Mechanical Engineering;

8) Metallurgical and materials Engineering.

**M. Tech. Degree Programme**

The Institute offers both full- time / part-time M. Tech. Degree Programmes in the following engineering disciplines:

1) Structural Engineering (Civil Engineering)

2) Water Resources Engineering (Civil Engineering)

3) Geotechnical Engineering (Civil Engineering)

4) Transportation Planning & Engineering (Civil Engineering)

5) Communication and Information Technology (Electronics & Comm. Engg.)

6. Micro Electronics (Electronics & Comm. Engg.)

7) Mechanical System Design (Mechanical Engineering)

8) Industrial Tribology and Maintenance Management (Mechanical Engineering )

9) Electric Power and Energy System *(Electrical Engineering)*

*10) Chemical Engineering (Chemical Engineering)*

**M.Sc. Degree Programmes**

*1) Applied Physics (Physics Department)*

**M. Phil Programme**

The Institute offers full- time /part- time M.Phil. degree programme in the following departments:

1. Physics

2. Chemistry

3. Mathematics

4. Humanities and Social Sciences

**Ph. D. Programme**

The Doctoral Degree programmes are being offered in all the Engineering and Allied departments. These programmes are offered on both full-time and part-time basis. **About 150 research** fellowship have been sanctioned with Scholarships at the rate as approved by MHRD from time to time.

**2.4. ADMISSION PROCEDURE**

**2.4.1 Undergraduate Courses**

As per the policy of Govt. of India for NIT’s, admission to U.G. programmes is made on the basis of the merit in national level test Joint Entrance Examination ( JEE) Mains, conducted by Central Board of Secondary Education (CBSE) New Delhi. 50% of sanctioned intake of 632 seats for B.Tech. is filled from domicile candidates of J&K State and 50% from candidates of other States, purely based on the merit/ranking in JEE main through a centralized on-line counselling system devised by the MHRD. In addition the institute also has a sanctioned intake of 04 seats for students under DASA programme.

**2.4.2 Post-graduate courses**

The admission for Post graduate courses is made through CCMT based on GATE scores. However, admissions through a written test for sponsored candidates on full time and part-time basis is also available for in-service candidates interested in seeking admission in Post graduate Programmes.

The M. Tech Programme is of two years spread (four semesters) and a total number of 60 credits are required to be earned for its award. The coverage of various courses, labs, seminars, field work, dissertation etc is an essential part of the M.Tech. programmes.

**2.4.3 M. Phil / Ph.D.**

The Selection of candidate for M. Phil/ Ph.D. Programme is made through an Entrance test followed by viva voce examination conducted by the concerned Departmental Research Committee (DRC).The candidates with satisfactory performance are selected for M. Phil/ Ph.D. Programme.

**2.5. ACADEMIC CALENDAR**

The following Academic Calendar prepared by the Institute and approved by the Senate, was notified for the students and staff. The Academic Calendar is prepared in such a way so that all the curricular, co-curricular, extra-curricular and other related activities/programmes of the students are well distributed over the semester period.

**Institute Academic Calendar for the Year-2015-16**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ACADEMIC CALENDAR OF NIT SRINAGAR FOR THE YEAR 2015-16** | | | | |
| **SPRING SESSION** | | | | |
| ACTIVITY | DATE | | DAY | |
| From | To | From | To |
| 1. a. Registration | 02‐03‐2015 | 04‐03‐2015 | Monday | Wednesday |
| b. Late Registration | 05‐03‐2015 | 09‐03‐2015 | Thursday | Monday |
| 2. a. Teaching (8th Semester) | 05‐03‐2015 | 12-06-2015 | Thursday | Friday |
| b. Teaching for other semesters | 05‐03‐2015 | 19-06-2015 | Thursday | Friday |
| 3.1st Minor | 13‐04‐2015 | 16‐04‐2015 | Monday | Thursday |
| 4. Extra‐Curricular Activities | 17‐04‐2015 | 19‐04‐2015 | Friday | Sunday |
| 5. 2nd Minor | 18‐05‐2015 | 21‐05‐2015 | Monday | Thursday |
| 6. Tech. Fest. | 22‐05‐2015 | 24‐05‐2015 | Friday | Sunday |
| 7. Alumni Day | 24-05-2015 |  | Sunday |  |
| 8. Annual Day | 30-05-2015 |  | Saturday |  |
| 9. B.Tech. & M. Tech. Project Viva | 11‐06‐2015 | 13‐06‐2015 | Thursday | Saturday |
| 10. Major for 8th semester | 15‐06‐2015 | 23‐06‐2015 | Monday | Tuesday |
| 11. Major for other even semesters | 24‐06‐2015 | 06‐07‐2015 | Wednesday | Monday |
| 12. Supplementary for odd semesters | 09-07-2015 | 17‐07‐2015 | Thursday | Friday |
| 13. Result Declaration for 8th Semester | 26‐06‐2015 | | Friday | |
|  | | | | |
| **AUTUMN SESSION** | | | | |
| ACTIVITY | DATE | | DAY | |
| From | To | From | To |
| 1. a. Registration | 20‐07‐2015 | 23‐07‐2015 | Monday | Thursday |
| b. Late Registration | 24‐07‐2015 | 27‐07‐2015 | Friday | Monday |
| 2. Teaching | 24‐07‐2015 | 10-11-2015 | Friday | Tuesday |
| 3. Freshers Orientation Day | 3rd week of August | | | |
| 4. 1st Minor | 31‐08‐2015 | 03‐09‐2015 | Monday | Thursday |
| 5. Extra‐Curricular Activities | 18‐09‐2015 | 20‐09‐2015 | Friday | Sunday |
| 6. CONVOCATION 2015 | Third Week of September | | | |
| 7. 2nd Minor | 05‐10‐2015 | 08‐10‐2015 | Monday | Thursday |
| 8. Major for odd semesters | 16‐11‐2015 | 30‐11‐2015 | Monday | Tuesday |
| 9. Supplementary for even semesters | 03-12‐2015 | 10‐12‐2015 | Thursday | Thursday |
| 10. WINTER VACATIONS (for students) | 11‐12‐2015 | 29‐02‐2016 | Friday | Monday |

**2.6. STUDENTS**

The present student strength of the Institute is **2700**. The Institute has been able to attract the students from all parts of the Country. Students of NIT Srinagar in addition to doing well in academics, also take part in other co-curricular and extra-curricular activities as well with lot of enthusiaism. The students actively participate in the Institute affairs. The welfare of students is one of the major priorities of the Institute. For this purpose Students’ affairs wing works towards the holistic development of the students.

**2.7 EXAMINATION AND EVALUATION:**

All under graduate, post graduate and M.Phil. / Ph.D. examinations, of the Institute are conducted centrally by the Examination Section of the Institute. The medium of examination for all examinations including dissertations and thesis is British English.

The performance of a student is evaluated in terms of two indices viz; the Semester Grade Point Average (SGPA) for a semester and Cumulative Grade Point Average (CGPA) which is the Grade point index for all the completed Semesters at any point of time. The Semester Grade Point Average (SGPA) is calculated on the basis of grades obtained in all courses in a semester and Cumulative Grade Point Average (CGPA) is calculated on the basis of pass grade in all completed semesters.

For each course, a grade is awarded on the basis of three written examinations in the case of theory papers i.e. Minor-I, Minor-II and Major with weight-age of 20, 20 and 50 marks, respectively. 10 marks are reserved for class performance and attendance of the student in the course. The paper setting and evaluation is done at the concerned Department level and monitored by a Departmental Monitoring Committee (DMC). Both Minor examination answer scripts are returned to students and the major answer scripts is shown to them before submission of grade to the DMC.

B.Tech. students are required to submit a project report at the end of the 8th semester, which starts in 7th semester. It is to be submitted in the form of a bound thesis. The Heads of the Departments constitute a Project Evaluation Board (PEB) which assesses each individual project of the students. The evaluation is done in the following manner:-

|  |  |  |
| --- | --- | --- |
| **SUPERVISOR**  **40%** | **EVALUATION BOARD**  **60%** | |
| Based on the work  done by the student during the tenure of the Project) | 20% for Project Report Contents & Quality | 40 %  For Presentation & viva voce |

The Project Evaluation Board comprises of:-

1. Head of the Dept. Concerned ii) one senior most faculty member of the concerned department iii) Supervisor concerned and iv) One expert from any other sister Department of the Institute for B. Tech.

In case of M. Tech. the expert is from outside the Institute, nominated by Director from an approved panel.

**2.8. PLACEMENTS**

The Institute has a well established Training and Placement (T &P) Department which takes care of the Technical/Industrial training and the Placement of the Students. The T & P Department is usually headed by a senior faculty member. The Department of T&P arranges for the industrial/work training of the students which is an essential requirement at 5th/7th semester levels of B. Tech. program and it also takes care of on-campus placement of the students by inviting /interacting with various agencies. Students from different departments of the Institute are also involved in the relevant activities of the T&P Department. The T&P Department also arranges trainings for the students for their better performance in interviews and other presentations.

**2.9. GAMES & SPORTS:**

The sports activities of the Institute are looked after by the Physical Education Section of the Institute. The Section puts in every effort to develop the sports activities for the bona-fide students of the Institute. The students are provided all possible facilities for their active participation in co-curricular and extra-co curricular activities. They are also encouraged and provided all opportunities to participate in all major sports events including participation in inter-class, inter-semester, inter-college, games/sports and other competitions. Besides this they are involved in a wide spectrum of social, cultural and technological activities throughout the year.

Both genders are fully exposed to higher level of competitions conducted at national and state level.

**2.10. CAMPUS INFRASTRUCTURE**

For maintenance and development of the campus infra-structure, the Institute has Planning and Development Wing which has three separate divisions of Civil Construction, Estates and Electrical Maintenance & Repairs.

The present campus is spread over 67 acres of land on the banks of World famous Dal lake. The land area available being insufficient, the Institute continues its efforts to provide the necessary infra-structure for better academics standards . Acquisition of additional land for the campus is also under consideration and it is hoped that in near future the Institute will succeed in acquiring additional campus.

For every Department of the Institute there are well established required laboratories, class rooms and other facilities. The Institute Campus being a residential one, has the residential facilities for both students and staff of the Institute. The construction of a Mega Hostel is under active consideration of the authorities to meet the additional requirements of the accommodation resulted from the increased in take of the students.

The Institute has all basic and required amenities for the students and staff which include Medical Unit, Computer Services Centre, Well Maintained Play Ground, Recreational Centre, Students Activity Centre, gymnasium, Transport facility etc.

**2.11. STAFF POSITION**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S.No: | | Position | Staff  sanctioned | | Staff in position |
| 1.Academic Staff: | | | | | |
|  | Director | | 01 | 01 | |
|  | Faculty | | 198 | 80+8 ( Trainee Teachers) | |
| 2 Sr. Administrative 20 10  Staff  3. Non-Teaching Staff 198 302  NB: The excess staff is due to restructuring of the non- teaching staff of the NITs as per MHRD orders. | | | | | |
|  | | | | | |
|  | | | | | |

3.0 ACADEMIC STATISTICS

**3.1. B. Tech. Courses**

|  |  |  |
| --- | --- | --- |
| **DISCIPLINE** | **SANCTIONED INTAKE** | **ADMISSIONS 2015-16** |
| Chemical Engineering | 77 + 7(DASA) | 63 |
| Civil Engineering | 123 + 20(DASA) | 113 + 2 (DASA) |
| Computer Science Engineering | 62 + 7(DASA) | 61 + 2(DASA) |
| Electrical Engineering | 77 + 15(DASA) | 75 |
| Electronics and Communication Engineering | 77 + 15(DASA) | 72 |
| Information Technology | 62 + 7(DASA) | 58 |
| Mechanical Engineering | 77 + 18(DASA) | 76 |
| Metallurgical Engineering | 77 + 6(DASA) | 55 |
| Total | 632 + 95(DASA) | 518 + 4 (DASA) |

**3.2. M. Tech. Courses**

|  |  |  |
| --- | --- | --- |
| **DISCIPLINE** | **INTAKE** | **ADMISSIONS 2015-16** |
| Water Resources Engineering  (Civil Engineering Department) | 15 | 06 |
| Structural Engineering  (Civil Engineering Department) | 25 | 22 |
| Communication and Information Technology  (Electronics and Comm. Engineering) | 25 | 16 |
| Micro Electronics | 13 | 10 |
| Mechanical System Design  (Mechanical Engineering) | 25 | 15 |
| Industrial Tribology and Maintenance Management | 26 | 13 |
| Electric Power & Energy System | 26 | 18 |
| Transportation Engg | 18 | 08 |
| Geo-Tech | 17 | 13 |
| Chemical Engineering | 18 | 02 |
| M.Sc. Physics | 25 | 02 |
| Total | **233** | **125** |

**3.3 M. Phil /Ph.D. Programmes:**

**150 annually.**

3.4 COURSE WISE ENROLMENT WITH CATEGORY / GENDER BREAK-UP:

**3.4.1 Seat Matrix- B.Tech Level 2015-16**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Quota** | **Degree** | **Branch** | **OP** | **OPPH** | **SC** | **SCPH** | **ST** | **STPH** | **OBC** | **OBCPH** | **TOTAL** |
| Other State (50%) | B.Tech | CSE | 15 | 01 | 05 | - | 02 | - | 08 | - | 31 |
| IT | 15 | - | 05 | - | 03 | - | 08 | - | 31 |
| Civil | 30 | 01 | 08 | 01 | 05 | - | 16 | - | 61 |
| Mech | 19 | - | 06 | - | 03 | - | 10 | 01 | 39 |
| Elect | 19 | 01 | 06 | - | 03 | - | 10 | - | 39 |
| E&C | 18 | - | 06 | - | 03 | - | 10 | 01 | 38 |
| Chem | 19 | 01 | 06 | - | 03 | - | 10 | - | 39 |
| M&MT | 18 | - | 06 | - | 03 | - | 10 | 01 | 38 |
| **Total** | **153** | **04** | **48** | **01** | **25** | **-** | **82** | **03** | **316** |
|  | | | | | | | | | | | |
| Home State (J&K) (50%) | B.Tech. | CSE | 15 | - | 04 | - | 03 | - | 08 | 01 | 31 |
| IT | 15 | 01 | 04 | - | 02 | - | 08 | 01 | 31 |
| Civil | 31 | 01 | 09 | - | 04 | - | 16 | 01 | 62 |
| Mech | 18 | 01 | 06 | - | 03 | - | 10 | - | 38 |
| Elect | 18 | - | 06 | - | 03 | - | 10 | 01 | 38 |
| E&C | 19 | 01 | 06 | - | 03 | - | 10 | - | 39 |
| Chem | 18 | - | 06 | - | 03 | - | 10 | 01 | 38 |
| M&MT | 19 | 01 | 06 | - | 03 | - | 10 | - | 39 |
| **Total** | 153 | 05 | 47 | - | 24 | - | 82 | 05 | 316 |

**3.4.2 Students enrollment –Category wise**

**B. Tech. :**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ADMISSION MADE** | | | | | | | | |
| **Year** | **Batch** | **OP** | **SC** | **ST** | **OBC** | | **Total** |
|  |  |  |  |  |  | |  |
| 2012 | Civil | 79 | 15 | 08 | 21 | | 123 |
|  | ELE | 50 | 09 | 05 | 13 | | 77 |
|  | ECE | 48 | 09 | 05 | 13 | | 77 |
|  | Chem | 45 | 07 | 05 | 11 | | 68 |
|  | Mech. | 50 | 09 | 05 | 12 | | 77 |
|  | Met. | 50 | 06 | 03 | 12 | | 71 |
|  | C. Sc. | 40 | 08 | 04 | 11 | | 63 |
|  | I.T. | 40 | 07 | 04 | 09 | | 60 |
|  |  | **402** | **70** | **39** | **102** | | 613 |
| 2013 | Civil | **38** | **14** | **07** | **39** | | 98 |
|  | ELE | **29** | **11** | **06** | **27** | | 73 |
|  | ECE | **28** | **10** | **05** | **25** | | 68 |
|  | Chem | **23** | **12** | **04** | **12** | | 51 |
|  | Mech. | **29** | **10** | **06** | **22** | | 67 |
|  | Met. | **29** | **10** | **06** | **08** | | 53 |
|  | C. Sc. | **25** | **07** | **05** | **18** | | 55 |
|  | I.T. | **23** | **08** | **06** | **08** | | 45 |
|  |  | **224** | **82** | **45** | **159** | | 510 |
| 2014 | Civil | **71** | **15** | **08** | **24** | | 118 |
|  | ELE | **47** | **08** | **05** | **13** | | 73 |
|  | ECE | **48** | **09** | **04** | **12** | | 73 |
|  | Chem | **39** | **09** | **05** | **12** | | 65 |
|  | Mech. | **48** | **09** | **05** | **13** | | 75 |
|  | Met. | **43** | **08** | **05** | **10** | | 66 |
|  | C. Sc. | **39** | **06** | **04** | **09** | | 58 |
|  | I.T. | **38** | **08** | **04** | **06** | | 56 |
|  |  | **373** | **72** | **40** | **99** | | 584 |
|  |  |  |  |  | **-** | **DASA** |  |
| 2015 | Civil | **52** | **17** | **07** | **34** | **02** | 112 |
|  | ELE | **32** | **12** | **06** | **23** |  | 73 |
|  | ECE | **32** | **12** | **05** | **22** |  | 71 |
|  | Chem | **36** | **12** | **05** | **09** |  | 62 |
|  | Mech. | **35** | **12** | **06** | **22** |  | 75 |
|  | M&ME | **29** | **11** | **04** | **10** |  | 54 |
|  | C. Sc. | **30** | **08** | **05** | **16** | **02** | 61 |
|  | I.T. | **24** | **09** | **05** | **19** |  | 57 |
|  |  | **270** | **93** | **43** | **155** | **04** |  |
| G.Total |  | 1269 | 317 | 167 | 519 | | 2272 |

Admission Statistics - B.Tech. (04- years)

**M. Tech. :**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Admission Made** | | | | | | |
| **Year** | **Programme** | **OP** | **SC/ST** | **Sponsored** | **OBC** | **Total** |
| 2014 | Water Resource Engineering | 05 | -/01 | 02 | - | 08 |
|  | Mechanical System Design | 11 | 02/- | - | 02 | 15 |
|  | Structural Engineering | 13 | 03/01 | - | 01 | 18 |
|  | Industrial Tribology and Maintenance Management | 13 | 01/01 | - | 02 | 17 |
|  | Communication Information Technology | 12 | 02/01 | 05 | 03 | 23 |
|  | Electric Power & Energy System | 13 | 03/01 | 02 | 03 | 22 |
|  | Transportation Engg | 07 | 02/- | 02 | 03 | 14 |
|  | Geo-Tech | 06 | 02/01 | 03 | 02 | 14 |
| 2015 | Water Resource Engineering | 03 | 01/01 | - | - | 05 |
|  | Mechanical System Design | 08 | 02/01 | 01 | 03 | 15 |
|  | Structural Engineering | 12 | 03/01 | 03 | 03 | 22 |
|  | Industrial Tribology and Maintenance Management | 09 | 02/- | 01 | 01 | 13 |
|  | Communication Information Technology | 09 | 01/01 | 05 | - | 16 |
|  | Electric Power & Energy System | 11 | 03/01 | 01 | 01 | 17 |
|  | Transportation Engg | 06 | 01/- | 01 | - | 08 |
|  | Geo-Tech | 06 | 02/01 | 02 | 02 | 13 |
|  | Micro Electronics | 05 | 01/- | 02 | 02 | 10 |
|  | Chemical Engineering | 02 | -- | 01 | - | 03 |
| Total | | 151 | 43 | 31 | 28 | 253 |

**M.Sc. Physics:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Year** | **OP** | **SC/ST** | **Sponsored** | **OBC** | **Total** |
| **2015** | **02** | **-** | **-** | **-** | **02** |

**3.2.3. Students’ Enrolment Gender wise**

**a) B. Tech**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Batch | CIVIL | | ELE | | ECE | | CHEM | | MECH | | METT | | CSE | | IT | |
|  | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| **2012** | 116 | 05 | 74 | 02 | 61 | 11 | 60 | 08 | 74 | - | 62 | 02 | 54 | 08 | 54 | 04 |
| **2013** | 90 | 08 | 67 | 06 | 59 | 09 | 44 | 07 | 63 | 04 | 49 | 04 | 45 | 10 | 42 | 03 |
| 2014 | 109 | 09 | 61 | 12 | 64 | 09 | 54 | 11 | 74 | 01 | 56 | 10 | 50 | 08 | 48 | 08 |
| 2015 | 97 | 15 | 60 | 13 | 58 | 13 | 56 | 06 | 75 | - | 44 | 10 | 60 | 01 | 48 | 09 |
| Total | 412 | 37 | 262 | 33 | 242 | 42 | 214 | 32 | 286 | 05 | 211 | 26 | 209 | 27 | 192 | 24 |

**b) M. Tech. :**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Batch** | **WRE** | | **Mech. System Design** | | **Structural Engg** | | **Comm. & Information Tech** | | **Industrial Tribology & Maintenance Management** | | **Elect. Power & Energy System** | | **Transportation Engg** | | **Geo-Tech.** | | **Micro Electronics** | | **Chemical Engg.** | | **M.Sc. Physics-** | |
|  | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** |
| **2014** | 07 | 01 | 15 | - | 17 | 01 | 13 | 10 | 17 | - | 19 | 03 | 14 | - | 11 | 03 | - | - | - | - | - | - |
| **2015** | 5 | - | 15 | - | 19 | 03 | 08 | 08 | 13 | - | 16 | 01 | 07 | 01 | 11 | 03 | 07 | 03 | 02 | 01 | 02 | - |

**c) M. Phil** **(Faculty of Science) :**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Chemistry** | | **Physics** | | **Math** | |
| **Batch** | **M** | **F** | **M** | **F** | **M** | **F** |
| 2012 | 03 | 02 | - | - | - | - |
| 2013 | - | 01 | - | - | - | - |
| 2014 | - | 01 | - | - | - | - |
| 2015 | - | - | - | - | - | - |
| **Total** | **03** | **04** | **-** | **-** | **-** | - |

M.Phil. Enrolment Gender wise (Faculty of Science)

**d) Ph.D. (Faculty of Engineering) :**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **ECE** | | **ELE** | | **CIT/CSE** | | **MECH** | | **Chemical** | | **MMED** | | **CIVIL** | |
|  | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| 2012 | - | 01 | - | - | 02 | 01 | 08 | - | - | - | - | - | - | - |
| 2013 | 05 | 07 | 5 | - | 02 | - | 10 | 02 | - | - | - | - | - | - |
| 2014 | - | 01 | - | - | 01 | - | - | - | 03 | - | - | - | - | - |
| 2015 | 06 | 03 | 09 | 033 | 02 | - | 15 | - | - | - | 02 | 01 | 15 | 03 |

**e) Ph.D. (Faculty of Science) :**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Batch** | **Physics** | | **Chemistry** | | **Math** | | **HSS** | |
|  | M | F | M | F | M | F | M | F |
| 2012 | 04 | - | 12 | - | 1 | - | - | - |
| 2013 | 13 | - | 11 | 4 | 5 | 2 | - | 1 |
| 2014 | 01 | - | - | 02 | - | - | - | - |
| 2015 | 05 | 01 | 06 | 01 | 02 | - | 02 | - |

*Ph.D. enrolment Gender wise (Faculty of Science)*

3.3. STUDENTS’ TOTAL STRENGTH

**3.3.1. Strength in Undergraduate Programme**

The below mentioned statement shows the student’s strength with each category in this Institute:-

OM 1269

SC 317

ST 167

OBC 519

Total: 2272

**3.3.2. Strength in M.Tech. Programme**

OM 151

SC/ST 43

Sponsored 31

OBC 28

Total  **253**

**3.3.3. M.Phil. Programme - 07**

**3.3.4. Ph.D. Programme - 168**

**4.0. DEPARTMENTS AND CENTRES**

The Institute has eight engineering departments, four science and allied departments and the three Centres. The departments are :

Civil Engineering , Mechanical Engineering, Electrical Engineering, Electronics and Communication Engineering, Chemical Engineering, Metallurgical and Materials Engineering, Computer Sciences Engineering, and Information Technology Mathematics, Chemistry, Physics and Social Sciences. The Centres are: Water Resources and Management Centre, Central Research Facilities Centre, Maintenance Engineering Centre, Innovation, Incubation & Entrepreneurship Development Centre and Computer Services Centre

**4.1 DEPARTMENTS**

**4.1.1 DEPARTMENT OF CIVIL ENGINEERING**

**Head: Prof. A. R. Dar**

**Introduction**

The department of Civil Engineering is one of the earliest departments at the commencement of the Institute in 1960. Over the years, the department has progressed both in infrastructure facilities and faculty. The department has highly qualified and experienced faculty, supported by experienced technical staff and well equipped laboratories attached to different divisions. The department offers teaching at the undergraduate and post-graduate levels to empower students to meet the technological needs and socio-economic challenges of the 21st century. The department also offers Ph.D. programs.

**Faculty**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Name** | **Designation** | **Qualification** | **Area of specialization** |
| 1 | Dr.A.R.Dar | Professor and Head | Ph.D | Water Resources Engineering |
| 2 | Dr.M.A.Lone | Professor | Ph.D | Structural Engineering |
| 3 | Dr.S.R.Shah | Professor | Ph.D | Water Resources Engineering |
| 4 | Dr.J.A.Bhat | Professor | Ph.D | Structural Engineering |
| 5 | Dr.M.A.Ahanger | Professor | Ph.D | Water Resources Engineering |
| 6 | Dr.A.Q.Dar | Professor | Ph.D | Water Resources Engineering |
| 7 | Dr,M.S.Mir | Professor | Ph.D | Transportation Engineering |
| 8 | Dr.M.A.Tantary | Professor | Ph.D | Structural Engineering |
| 9 | Er. F. A. Mir | Assc. Professor | M.Tech. | Geotechnical Engineering |
| 10 | Dr. J.M.Banday | Assc. Professor | Ph.D | Structural Engineering |
| 11 | Dr. J.A.Naqash | Assc. Professor | Ph.D | Structural Engineering |
| 12 | Er.Danish Ahmad | Associate Professor | M.E | Water Resources Engineering |
| 13 | Dr.M.Y.Shah | Associate Professor | Ph.D | Geotechnical Engineering |
| 14 | Dr.B.A.Mir | Assistant Professor | Ph.D | Geotechnical Engineering |
| 15 | Er. A. A. Masoodi | Assistant Professor | M.Tech. | Structural Engineering |
| 16 | Er.R.R.Mir | Assistant Professor | M.E. | Water Resources Engineering |
| 17 | Dr.S.K.Bukhari | Assistant Professor | Ph.D | Geology |
|  | **Number of Faculty Members engaged on Contractual basis = 19** | | | |

**R&D Work:**

**I. Papers Published by the Staff**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Name of the Staff Member** | **Title of the Paper** | **Conference/ Journal etc. where Published/ Accepted** | **Date of Publishment** |
| 1 | Dr. A. R. Dar | Application of Negative Stiffness Dampers for Controlling Structural Seismic Response | Journal on Structural Engineering (JSTE) ISSN 2278-7887(Print), ISSN(Online) 2320-2343 | (Accepted for Publication) |
| 2 | Dr. A. R. Dar | Experimental Validation of the Remedial Measure proposed for Rehabilitation of a Steel Roof Truss | Jordan Journal of Civil Engineering, ISSN 1993-0461(Print), ISSN(Online) 2225-157X | (Accepted for Publication) |
| 3 | Dr. A. R. Dar | Experimental Study on Innovative Sections for Cold Formed Steel Beams | Steel and Composite Structures, An International Journal,Vol 19,Issue 6, ISSN(Print):1229-9367, ISSN(Online):1598-6233, pp 1599-1610 | January 2016 |
| 4 | Dr. A. R. Dar | Experimental Investigations on the Structural Behaviour of a Distressed Bridge | Structural Engineering and Mechanics, An International Journal, Vol 56, Issue 4, ISSN(Print):1225-4568, ISSN(Online):1598-6217, pp. 695-705 | November 2015 |
| 5 | Dr. A. R. Dar | Theoretical Design of Innovative Cold Formed Steel Beam Sections | International Journal of Scientific World, Vol 3, Issue 2 (2015), ISSN 2278-7887(Print), ISSN(Online) 2320- 2343, pp.255-266 | September 2015 |
| 6 | Dr. A. R. Dar | Flexural Behaviour of Stiffened Modified Cold-Formed Steel Sections–Experimental Study | International Journal of Civil Engineering & Technology, ISSN 0976 – 6308 (Print),ISSN 0976 – 6316(Online),Volume 6, Issue 9, pp. 104-115 | September 2015 |
| 7 | Dr. A. R. Dar | A Study on Seismic Vulnerability Assessment of a College Building in India | International Journal of Engineering Trends & Technology, Volume 24, No. 4, ISSN: 2231 – 5381,pp 191-197 | July, 2015 |
| 8 | Dr. A. R. Dar | Investigation on the Properties of Non-convential Bricks | Journal on Structural Engineering (JSTE),Vol 3, Issue 4, ISSN2278-7887(Print), ISSN(Online) 2320-2343, pp. 26-35 | July 2015 |
| 9 | Dr. A. R. Dar | Seismic Evaluation of a Masonary Building A Case Study | International Journal of Civil Engineering & Technology”, ISSN 0976 – 6308 (Print),ISSN 0976 – 6316(Online),Volume 4, Issue 5, , pp. 88-98,Journal Impact Factor (2013): 5.3277 | June,2015 |
| 10 | Dr. A. R. Dar | A Study on Seismic Vulnerability Assessment of a College Building in India | Proceedings of National Conference on Emerging Fields in Engineering & Science 2015, Kurukshetra University | April, 2015 |
| 11 | Dr. A. Q. Dar | Using Artificial Neural Network for Real Time Flood Prediction in River Jhelum, J&K (India**)** | Elixir International Journal of Civil Engg Elixir Civil Engg. 82 (2015) 32710-32713 | 27 May 2015; |
| 12 | Dr. A. Q. Dar | Watershed Management of Dal Lake Catchment (J&K) Based on Erosion Intensity Hazard using Geospatial Technique | Elixir International Journal of Civil Engg Elixir Civil Engg. 83(2015) 33255-33261 | 10 March 2015; |
| 13 | Dr. A. Q. Dar | Morphometric Analysis of Micro-Watersheds of Dal Lake Catchment (J&K) using Geospatial Techniques  major | Elixir International Journal of Civil Engg Elixir Civil Engg. 80 (2015) 31028-31034 | 22 June 2015; |
| 14 | Dr. A. Q. Dar | An empirical formula to estimate rainfall intensity in Kupwara region of Kashmir Valley, J & K , India | 3rd International Conference on Science, Technology and Management (ICSTM-16) India International Centre, New Delhi | 17 January 2016 |
| 15 | Dr. A. Q. Dar | Intensity-duration-frequency relationships for different regions of Kashmir valley- j &k (india) | 4th international conference on advancements in engineering & technology (icaet-2016) Bhai gurdas institute of engineering & technology, sangrur – 148 001, punjab, india | (March 18-19, 2016) |
| 16 | Dr. Mohammad Shafi Mir | Evaluation and Strengthening of Reconstructed Roads Excavated for Utilities Using Benkelman Beam Deflection (BBD) Technique (A Case Study) | International Journal of Civil Engineering and Technology, Vol. 6, Issue 1, January 2015, pp. 27-38 | 2015 |
| 17 | Dr. Mohammad Shafi Mir | Laboratory study on use of RAP material in WMA pavements using rejuvenator | Accepted for Publication in proceedings of 12th InternationalConference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC), IIT Bombay, 19-21 Dec 2016 | 2016 |
| 18 | Dr. Mohammad Shafi Mir | Laboratory Performance Evaluation Of Warm Mix Asphalt Additives For Cold Regions | Accepted for Publication in proceedings of 12th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC), IIT Bombay, 19-21 Dec 2016 | 2016 |
| 19 | Dr. Mohammad Shafi Mir | Laboratory Evaluation of Modified Bituminous Mix Using Low Density Polythene | Publication in proceedings of 12th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC), IIT Bombay, 19-21 Dec 2016 | 2016 |
| 20 | Dr. Mohammad Shafi Mir | Study on Travel Time Reliability Parameters in Srinagar City | Publication in proceedings of 12th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC), IIT Bombay, 19-21 Dec 2016 | 2016 |
| 21 | Dr. M. Y. Shah | Earthquake induced liquefaction features in The Karewas of Kashmir Valley North West Himalayas, India: Implication to paleoseismicity | *International Journal of soil dynamics and earthquake engineering*, Vol. 90, pp-101-111 | November 2016 |
| 22 | Dr. B. A. Mir | Challenges associated with expansive soils and their remedial measures | Paper accepted in the International Journal of Geological Resources and Engineering, In press- Paper No: JGRE2016419-1, pp. 1-10, | March 2016 |
| 23 | Dr. B. A. Mir | Model Studies on Shear Behavior of Reinforced Reconstituted Clay | International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering-International Science Index-waset.org/ Publication/ 10003706, pp. 87-94 Vol:10, No:1, | Jan. 2016, Paper count-199 |
| 24 | Dr. B. A. Mir | Strength Behavior Of Clayey Soil Reinforced With Human Hair As A Natural Fibre | International Journalof Geotechnical & Geological Engineering, Springer, Netherland, pp. 411-417,  DOI 10.1007/s10706-015- 9953-x | , Nov. 2015 |
| 25 | Dr. B. A. Mir | Some studies on the effect of fly ash and lime on physical and mechanical properties of expansive clay | International Journal of Civil engineering-Trans. B: Geotechnical Engineering - Geotechnique, pp. 203-212, Vol. 13, No. 3&4B, | September & December 2015 |
| 26 | Dr. B. A. Mir | Some Studies on Engineering Behavior of Cement Stabilized Dredged Soil from Flood Spill Channel of Jhelum River Srinagar | Procc. of 50TH IGC-2015 on Geotechnics for Infrastructure & Foundation Techniques (GIFT),, Pune, Mumbai, pp. 1-10, Paper No. 08, Vol. 1, | Dec. 17-19, 2015 |
| 27 | Dr. B. A. Mir | Some Studies on Physical And Mechanical Behavior of Dredged Soil From Flood Spill Channel of Jhelum River Srinagar | Procc. of 50TH IGC-2015 on Geotechnics for Infrastructure & Foundation Techniques (GIFT),, Pune, Mumbai, pp. 1-10, Paper No. 06, Vol. 1, | Dec. 17-19, 2015 |
| 28 | Dr. B. A. Mir | Challenges Associated with Expansive Soils and Remedial Measures | Procc. of 50TH IGC-2015 on Geotechnics for Infrastructure & Foundation Techniques (GIFT),, Pune, Mumbai, pp. 1-10, Paper No. 02, Vol. 1, | Dec. 17-19, 2015 |

**II. Programmes Attended by Staff (Conferences/ Courses/ Trainings)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Name of the Staff Member** | **Name of the Programme Attended** | **Institute Where Attended** | **Date** |
| 1 | Dr.A.Q.Dar | 3rd International Conference on Science, Technology and Management (ICSTM-16) Venue: India International Centre, New Delhi | India International Centre, New Delhi | 17 January 2016 |
| 2 | Dr.A.Q.Dar | 4th INTERNATIONAL CONFERENCE ON ADVANCEMENTS IN ENGINEERING & TECHNOLOGY (ICAET-2016)  ) | Bhai Gurdas institute of engineering & technology, sangrur – 148 001, punjab, india | (March 18-19, 2016) |
| 3 | Dr. M. S. Mir | Expert talk on ‘Transportation Demand and Supply VERSUS Traffic Management and Safety’ in the Seminar on Traffic Management, organized by Institute of Studies, Learning and Analysis (ISLA) | SKICC Srinagar, Jammu & Kashmir, India | Oct 17, 2015 |

**III. Any other Activity / Achievement with Details**

**Dr. M. S. Mir**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Name of New Laboratory Developed** | **Nature of Development** |
| 1 | Development of New Traffic Engineering Laboratory | Developed as a new lab. Arranged space and purchase of equipment for the same |

**Dr. B. A. Mir**

|  |  |  |
| --- | --- | --- |
|  | Workshops/Seminars Organized: | **As a core committee member** for organizing 5-days INSPIRE Internships sponsored by DST, GOI, since 2012 to 2015 |
|  | Delivered Theme Lecture in the 50TH IGC-2015 on Expansive Soils, in Pune, Dec. 17, 2015 | |
|  | Membership in Scientific and Professional Societies | MASCE (USA), MISSMGE (UK), LMIGS, LMISTE, LMISCMS, LMISWE, LMICI, LMISRMTT, LMIE, LMICI, LMIIScAA, C.Engg (I), LMIITBAA, MUACSE (USA) |
|  | Journal Reviewer | Ground Improvement ICE-UK, GEGE-Springer, Geotechnique-UK, IJGE-Ross Pub. USA, IJCE, Geomate-Japan, IJCECT, |
|  | Editorial Board Member | 1. TPC Chair for the United Conference on Architecture, Design, Earth, Science and Geography (ADESG-2017)  2. ForWorld Research Intl. Journal of Civil Engineering (WRJCLE)  ***3.******For International******Scientific Committee and Editorial Review Board on Civil and Structural Engineering for World Academy of Science, Engineering and Technology***  4. For i-Manager`s Journal of Civil Engineering  5. For GEOMATE Technical Program Committee (TPC), Japan  6. For International Conference on Test, Measurement and Computational Method (TMCM2015) |
|  |  |  |

**V. Purchase Made**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Name of the Equipment/ Item** | **Date of Purchase** | **Amount of Purchase** |
| 1 | Universal Penetrometers (2 No) | 18-02-2015 | 16000/= |
| 2 | Deep Freezer Blast Type (1 No.) | 07-10-2015 | 337500/= |
| 3 | Bulk Density Apparatus (1 No.) | 18-02-2015 | 7500/= |
| 4 | Multi-purpose Stirer (1 No.) | 18-02-2015 | 14000/= |
| 5 | Traffic Recording Camera (1 No.) | 21-09-2015 | 4,50,000/= |
| 6 | Traffic Visual Display Unit (1 No.) | 21-09-2015 | 73125/= |
| 7 | Traffic Data Analysis Machines (3 No.) | 21-09-2015 | 189000/= |
| 8 | Electronic Digital Top balances, Cap 1 kg (1 No) | 18-02-2015 | 16000/= |
| 9 | All Geotechnical Suite- Oasys Software: 10 programs | March 2016 | 10,52,150.40 |

**4.1.2 DEPARTMENT OF MECHANICAL ENGINEERING**

**Head: Prof. G.A. Harmain**

**Introduction**

Established in 1963, the Department of Mechanical engineering has one B. Tech and two M. Tech programmes.  The curriculum includes a diverse range of the subjects. The department has 12 labs to cater to the needs of the students. The real strength of the department lies in its highly qualified and experienced faculty. Most of the outgoing students are recruited by reputed organizations during campus placement every year.

**Faculty**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No** | **Name of Faculty Member** | **Designation** | **Qualification** | **Research Areas** |
| 1. | Prof.  G.A. Harmain | HOD | Ph.D | Wave Motion Tribology, |
| 2. | Dr. Rajat Gupta | Professor | Ph.D | Fluid Mechanics, |
| 3. | Prof. (Dr)  I K Pandita | Professor | Ph.D. | Structural dynamics, design |
| 4. | Dr. G.A. Harmain | Professor | Ph.D., | Tribology |
| 5. | Dr. M. Marouf Wani | Professor | Ph.D | Combustion, Alternative fuels, Emission control |
| 6. | Dr. N. A. Sheikh | Professor | Ph.D | Aircraft wing vibration, Smart Structures |
| 7. | Mr. Babar Ahmad | Professor | Ph.D. | MEMS, Ultrasonic transducer |
| 8. | Mr. Adnan Qayoum | Professor | Ph.D. | Heat Transfer |
| 9. | Mr. Shahid Saleem | Assc. Professor | M. Tech | Tribology of brake systems, |
| 10. | Mr. Saad Parvez | Assc. Professor | M. Tech | Manufacturing strategy, |
| 11. | Mr. Gulam Muhammad | Assc. Professor | M. Tech | Mechatronics |
| 12. | Mr.Muhammad Hanief | Assistant Professor | M. Tech | Tribology |
| 13. | Mr. M. S. Charoo | Assistant Professor | M. Tech | Tribology |
| 14. | Mr. M. Mursaleen | Assistant Professor | M. Tech | Smart structures |
|  | **Number of Faculty Members engaged on Contractual basis = 06** | | | |

**R & D work**

Enclosed kindly find herewith Annual report for the year 2015 to 2016 (01.04.2015 to 31.03.2016) of the Mechanical Engineering Department for further processing at your end

I. **Papers published by the Staff:**

**Prof. Dr. G.A Harmain**

***Journal Publication***

1. **AzherJameel and G. A. Harmain, “**Modelling and Numerical Simulation of Fatigue Crack Growth in Cracked Specimens Containing Material Discontinuities”, **Strength of Materials (Springer), Vol 48, No 2, March 2016.**
2. **AzherJameel and G. A. Harmain, “Fatigue** Crack Growth in presence of material Discontinuties by EFGM”, **International Journal Of Fatigue (Elsevier), Vol. 81, pp.105-116, 2015**
3. **Najar, F A and G. A. Harmain,** “Thermal effects for conventional and water cooled thrust bearings using finite difference methiod: Comparative Analysis”, **International Journal iof Precision Technology, Vol 5.1, Pp 14-26, 2015.**

***Conference Papers***

1. **AzherJameel and G. A. Harmain,** “Applications of XFEM, EFGM and coupled FE-EFG Techniques in solving Fracture Mechanics Problems”, **Proceedings of the 60st Congress of Indian Society of Therotical and Applied mechanics (An International Conference) to be held at VIT University of Vellore, India.Dec 16-19, 2015**
2. **Farooq Ahmad Najar and G. A. Harmain,**“Thermoelastic distortion and its control in thin flim hydrodynamic lubrication thrust bearings”**, in the Proceedings of STLE Annual Meeting and Exhibition, Dallas, texas, USA, 2015.**
3. **Farooq Ahmad Najar and G. A. Harmain,** “Life Cycle Assessment for Hydroelectric Power Plant Thrust Bearings”, **JK Science Congress, 2015, ISBN: 978-93-82288-87-9**
4. **Junaid Hassan Masoodi& G. A. Harmain,** “Sediment Erosion in Francis Runner: A Case Study of Uri Hydropower Station**”, JK Science Congress, 2015, ISBN: 978-93-82288-87-9.**
5. **Ankush Raina and G. A. harmain,** “Aerodynamic Drag Reduction by passive Flow Control”**, Proceedings of 60th Congress of ISTAm (**[**http://istam.iitkgp.ac.in**](http://istam.iitkgp.ac.in)**), held at MNIt, Jaipur-302017, Rajasthan, India.**
6. **Rishi Sharma, Gagandeep, Ankit Kumar, Vikram Singh, Vijay Kumar Meena and G. A. Harmain,** “Simulating the Bending Strength And Bending Stiffness of Distal Tibial Plates By Finite Element Analysis”, **National Conference on Statistics and Analytical Methods in Production and Industrial Engineering, PEC, SAMPIE**
7. **SaadParvez, G.A. Harmain,** "A framework for evaluation & categorization of suppliers in an automobile manufacturing firm", **International Conference on Trends in Industrial and Mechanical Engineering, Maulana Azad National Institute of Technology, Bhopal,** (IC TIME 2016), February 4-6, 2016.
8. **SaadParvez, G.A. Harmain, “**Supplier categorization using MCDM & cluster analysis techniques: an application from Indian automobile manufacturing firm”, **International Conclave on Innovations in Engineering & Management, Oman Vision 2020: Opportunities & Challenges,** (ICIEM-16, pp. 223-231), 24-25 February, 2016.

**Prof. Dr. M. F. Wani**

***Journal Publication***

1. **SUBRATA KR. MAITI1, SOUMYA SARKAR2, M. FAROOQ WANI and PROBAL KR. DAS,** “Mechanical and Tribological Performance of Graphite/Silicon Nitride Composites: A Comparison between Pressureless and Spark Plasma Sinter Processing,” **Metallurgical and Materials Transactions A, 2015, Vol 46(A), 5719-5726.**
2. **M Haneef and M F Wani,** “ Modelling and Predicting of Surface roughness for running –in wear using Guas Newton algorithm and ANN,” **Applied Surface Science, Dec, 2015**
3. **M. F.Wani and Syed Danish Fayaz,** ”High temperature tribological characterization of Nanosized Si3N4 +5% BN,” **International Journal of Advances in Engineering & Technology, Feb., 2015. pp. 8 -13.**, 2015

***Conference Papers***

1. **M. Hanief, Nitin Badyal, M S Charoo, M F Wani, Mushtaq A Rather**, Tribological characteristics of waste rubber-derived oil as lubricant, **ICEMS-2016**, JNU Jaipur, India.

**Dr. Hanief**

***Journal Publication***

**1. M. Hanief, M. F. Wani***, Modeling and prediction of surface roughness for running-in wear using Gauss-Newton algorithm and ANN,****Applied Surface Sciences,* ELSEVIER,** <http://dx.doi.org/10.1016/j.apsusc.2015.10.052>

***Conference Papers***

*1****.* M. Hanief, Nitin Badyal, M S Charoo, M F Wani, Mushtaq A Rather**, Tribological characteristics of waste rubber-derived oil as lubricant, **ICEMS-2016**, JNU Jaipur, India.

1. **M. Hanief,** “Tribological Characteristics of En8 and En24 Stell against Aluminium Alloy 6061 under lubricated Condition”, International Conference on materials Science & Technology-2016, [www.vbripress.com/icmtech](http://www.vbripress.com/icmtech)

**Dr. M.S.Charoo**

***Conference Papers***

1. **M.S.Charoo,** “Tribological Characteristics of EN8 and EN24 Steel against Aluminium Alloy 6061 under Lubricated Conditions”, **International Conference on materials Science & Technology-2016,** www. Vbipress.com/icmteh DOI: 10.5185/icmtech.2016.
2. **M.S.Charoo, “**“Tribological Characteristics of MoS2 particle as Lubricant additive on EN31 Alloy Steel and AISI 52100 Steel Ball”, ”, **International Conference on Materials Jaipur National University, jaipur, India**

**Saadparvez**

***Journal Publication***

1. **SaadParvez, Prateek Gaur, Abhishek Paliwal, Naimish Srivastava, Hemant Singh, Amitesh Kr. Chaudhary**, “Strategy For Reducing The Waiting Time of Airline Passengers Using Queuing Theory”, © Research India Publications; httpwww.ripublication.comijaer.htm**, International Journal of Applied Engineering Research**, ISSN 0973-4562 Vol. 10 No.78 (2015).

***Conference Papers***

1. **SaadParvez, G.A. Harmain,** "A framework for evaluation & categorization of suppliers in an automobile manufacturing firm", **International Conference on Trends in Industrial and Mechanical Engineering, Maulana Azad National Institute of Technology, Bhopal,** (IC TIME 2016), February 4-6, 2016.
2. **SaadParvez, G.A. Harmain, “**Supplier categorization using MCDM & cluster analysis techniques: an application from Indian automobile manufacturing firm”, **International Conclave on Innovations in Engineering & Management, Oman Vision 2020: Opportunities & Challenges,** (ICIEM-16, pp. 223-231), 24-25 February, 2016.
3. **AfreenNissar, SaadParvez, Rohan Ashraf,** "Application of Monte Carlo simulation technique to system reliability analysis in a cement plant”, **The International Conference on Computer Aided Engineering,Department of Mechanical Engineering, GITAM University, Hyderabad Campus.** 2015, December 10-12, 2015, pp. 421-423.

**Dr. Adnan Qayoum**

***Journal Publication***

1. **Dr. Adnan Qayoum,** “Combined Influence of Synthetic Jet and Surface Mounted rib on Heat Transfer in a Square Channel”**, Journal of Heat Transfer (Transactions of ASME). Dec 2015**

***Conference Papers***

1. **Dr. Adnan Qayoum, “**Effect of Repeated Permeable Ribs on Heat Transfer in a two Pass Square Channel”**, 1st International ISHMT – ASTFE Heat and Mass Transfer Conference, ISRO Trivandrum. Dec 2015.**
2. **Dr. Adnan Qayoum,** “Comparison of a CFD Model and a Lumped Element Model of a Synthetic Jet Actuator in a Quiescent Flow”**, 42nd national Conference on fluid Mechanics and Fluid Power, NIT Suratkal. Dec 2015**
3. **Dr. Adnan Qayoum,** “Heat Transfer and Pressure Drop Analysis for a Flow through a Two Pass Square Channel with Various Rib Shapes”, **42nd national Conference on Fluid mechanics and Fluid Power, NIT Suratkal. Dec 2015**

**Prof. Dr. Sheikh Nazir**

***Journal Publication***

1. **K. A. Najar1,\*, M. A. Shah and N. A. Sheikh, “** Integrity of CVD-Diamond Coatings on Cemented Tungsten Carbide Substrate: Mathematical Analysis carried out for Calculating the Force of De-lamination and Load Bearing Capacity of Coating-substrate System”, **Elixir Nanotechnology 90 (2016) 37463-37467.**
2. **Kaleem Ahmad Najara,\*, Nazir Ahmad Sheikha, Sajad Dina, Mohammad Ashraf Shah**, “Effect of CVD-diamond coatings on the tribological performance of cemented tungsten carbide substrates”, **Malaysian Tribology Society (MYTRRIBO), 1-03-2016**

***Conference Papers***

1. **Kaleem Ahmad Najar, Mohhd Ashraf Shah &Nazir Ahmad Sheikh,** “Development of CVD Diamond Coated WC Co tools for enhancing Tool Life in the machining of Hard Metallic Alloys or Ceramics”, **Proc of International Conference on Nanotechnology for Better living, 2016 , NBL-2016, Vol.3, No.1p, 72.**
2. **Sajad Hussain Din, M. A. Shah, N. A. Sheikh,** “Improvement in the Mechanical and Tribological Properties of Titanium Alloy (Ti6Al4V) by dual Layer Diamond Coating”, **Proc of International Conference on Nanotechnology for better Living 2016 , 2016, Vol.3, No.03, p: 4.**

**II. Programme attended by Staff (Conferences/Courses/Trainings)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No. | Name of the staff member | Name of the programme Attended | Institute where Attended | Date |
| 01 | Prof. Sheikh Nazir | ***Faculty Development*** | IIITM Gwalior | 18-22 Jan 2016 |
| 03 | ShahidSaleem | Condition Monitoring using Oil analysis | Petrolabs, Hyderabad | 22nd-23rd April 2015 |
| 04 | ShahidSaleem | Two- day workshop “INSIDE RAMAN” | IISER Mohali, Chandigarh | 10th- 11th Dec 2015 |
| 05 | Sheikh Gulam Mohamad | GIAN | IIT Kharagpur | Nov. 30 to Dec.12,2015 |

**III. Programmes Conducted by the Staff:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Name of the programme** | **Date when conducted** | **Name of  Co-ordinator** |  |
| 1 | Alumni Meet 2015 | 21-23 May 2015 | Aijaz A Mir, ShahidSaleem,… | 160 |

**IV. Any other Activity/Achievement with details:**

**Prof. Dr. G.A Harmain**

1. Member of All India Board of Undergraduate Studies in Engineering & Technology from 24-05-2016 for a period of 3 years

2. One of the Ph.D. Candidates namely Farooq Ah. Najar, conferred with Young Scientist Award, International Travel Grant by Scientific Engineering Research Board (SERB), Department of Science of Technology , Govt. of India

3. Serving as a Board Member of Research Studies BORS since 2002-

4. Member Departmental Monitoring Committee( Chemical Engineering Department)

5. Member of National Advisory Council for [IVthInternational Conference on Production & Industrial Engineering (CPIE- 2016)Dr. B. R.Ambedkar National Institute of Technology, Jalandhar (December 19-21, 2016)](http://www.cpie.ind.in/index.php).

6. Member of Local Advisory Committee for Third International Conference on Nanotechnology for Better Living held

7. Member of National Advisory Board ICCMEET 2016.

8. Member of Advisory Committee for incubation centre NIT, Srinagar

**Er.SheikhShahidSaleem:**

1. Coordinator M Tech., Mechanical System Design, MechanicalEngg. Deptt.
2. Deputy Superintendent JEE Preliminary 2015
3. Member CPC
4. Coordinator exams for CET 2015.
5. Deputy Superintendent for conduct of CBSE UGC (NET) Exam
6. Member organizing committee AMMP 15 Metallurgy conference
7. Digital India Week Aug 2015 Member core committee
8. Coordinator J&K Bank online exam (first time in Bank history). 4 sessions each day for 3 days
9. Member BOS for Metallurgy and Materials Science 2015.
10. Member Organizing Committee two days TEQIP Workshop on Metallurgical and Materials Curriculum (TWMMC - 15) (held at NIT Srinagar in collaboration with IIT Kanpur
11. Deputy Superintendent for conduct of SSB exams on 17 - 18th Oct 2015 for J E’s and Matric Discipline
12. Jury Member for the theme “Next-Gen Abode - The Future House” organized by IIED Centre NIT Srinagar
13. Member Mechanical Works Committee Constituted by BWC, NIT Srinagar, Order Nor 33 of 2015 dated 03-11-2015
14. Deputy Superintendent for conduct of SSB exams on 05 & 6 Dec 2015 for Tourist Officer etc FP/HFW, TSO etc.
15. Officer-In-Charge Winter 2015 Examinations, Institution of Engineers (INDIA) 5th - 11th Dec 2015
16. Deputy Superintendent for conduct of SSB exams on 25th Dec 2015 for Graduate level Posts
17. Deputy Superintendent for conduct of UGC (NET) Exam on 27th Dec 2015

**V. Purchases made:**

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Name of the made:equipment/item | Dated of purchase | Amount of purchase |
| 01 | Printer. HP  Printer Toner  White Board  Calculator  3KVA UPS | 1.7.2015 | Rs 54000/=  Rs3000/=  Rs3000/=  Rs1000/=  Rs15000/= |
| 02 | ComsolMultiphysics | 07-12-2015 | Rs 10,41,600.00 |
| 03 | Equipments for Fluid Mechanics lab  (Bernoulli's Apparatus, Reynolds Apparatus, Venturimeter/Orificemeter, Losses in Pipe apparatus, Orifice and Mouthpiece apparatus, Flow visualization in water channels) | 20-11-2015 | Rs 2,04,607.00 |
| 04 | Equipments for Thermal Lab ( Centrifugal Blower Test Rig, Air Conditioning Cycle Test Rig, Refrigeration Cycle Test Rig, Cooling Tower Test Rig, Window Air Conditioning Test Cut Section Model, Axial Flow Fan Test Rig) | 03-12-2015 | Rs 3,73,048.00 |
| 05 | 3-Channel Hot Wire Anemometer System | 07-08-2015 | USD 50,000+ Rs 3,22,400.00 |
| 06 | Data acquisition Cards from National Instruments for Temperature, pressure, etc measurements | 14-03-2016 | Rs. 19,65,313.00 |
| 07 | Electro spinning m/c components | July 2015 | Rs.85000/- |
| 08 | Reciprocating Sliding attachment for tribometer | 10th June,2015 | Rs.12,90,000/- |
| 09 | IBM SPSS Statistics Base 23.0 – 10 Users | 25th June,2015 | Rs.5,68,530/- |
| 10 | Thrust Bearing Test Rig  M/s Decom instruments Pvt. Ltd. | 27th Feb, 2016 | Rs. 59, 49721/- |

4.1.3. **DEPARTMENT OF ELECTRICAL ENGINEERING**

**Head: Prof. Aijaz Ahmad**

**Introduction**

The Department of Electrical Engineering is now 52 years old. For many years, the Department offered courses in both Electrical Engineering and Electronics & Communications Engineering. In 1984, the Department was bifurcated into two Departments viz Electrical Engineering and Electronics & Communications Engineering. The history since then has been one of continuous expansion and modernization. The Department has contributed and is contributing in several ways to the growth of Electrical Engineering, technology and industry in the Country.

**Faculty**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Name of Faculty** | **Designation** | **Qualification** | **Specialization** |
| 1. | Dr. Aijaz Ahmad | Professor & HOD | Ph. D | Power System Optimization, |
| 2 | Dr. M. D. Mufti | Professor | Ph. D | Intelligent Control, of Electrical Energy Systems |
| 3. | Dr. S. A. Lone | Professor | Ph. D | Stand Alone Power Systems Control |
| 4. | Dr. A.H. Bhat | Associate Professor | Ph. D | Power Electronics, |
| 5. | S. J. Iqbal | Asstt. Professor | M.Tech. | Intelligent Control |
| 6. | M. A. Bazaz | Asstt. Professor | Ph.D. | Control & Automation |
|  | **Number of Faculty Members engaged on Contractual basis = 07** | | | |

**R&D Work**

**I.** Papers Published from 01-04-2015 to 31-03-2016.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.  No | Name of Staff Member | Title of the Paper | Conference / Journal etc where published | Date of Publishing |
| 1 | Dr. Aijaz Ahmad | An Improved Control Approach for Three-Phase Improved Power Quality Converter for Unbalanced AC Mains (Journal) | Asian Power Electronics Journal. | Accepted in 2016 |
| 2 | Dr. Aijaz Ahmad | A Novel Adaptive Control Approach for Three-Phase Improved Power Quality Converter Under Distorted and Unbalanced AC Mains. (Journal) | International Journal of Industrial Electronics & Drives | Accepted in 2016 |
| 3 | Dr. Aijaz Ahmad | Performance Evaluation of a Three-Phase Improved Power Quality Converter under Unbalanced Mains Conditions (Journal) | International Journal of Scientific and Technical Advancements, 2015, pp. 17-21 | 2015 |
| 4 | Dr. Aijaz Ahmad | Generalised Weighted Least Square Based Modified Space Vector Pulse Width Modulation for AC/DC Converter under Supply Perturbation (Conference) | IEEE International conference (ICPEICES 2016) at DTU, | 4-6 July, 2016 |
| 5 | Dr. Aijaz Ahmad | Fuzzy Logic Controlled Three-Phase Improved Power Quality Converter For Disturbed AC Mains (Conference)  National conference and Exhibition on Emerging and Innovative Trends in Engineering Technology (NCEEITET, 16) | GCET Jammu | 11-12 Nov. 2016. |
| 6 | Dr. Aijaz Ahmad | Modified Space Vector Control Approach for Improved Power Quality Converter Under Supply and Load Perturbation | 3rd International conference on Recent Trends and Advancements in Engineering & Technology (ICRTAET),.(Conference) | 17-18 Nov. 2016. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.  No | Name of Staff Member | Title of the Paper | Conference / Journal etc where published | Date of Publishing |
| 1 | Dr. M. D. Mufti | Supervisory Adaptive Predictive Control Scheme for Super Capacitor Energy Storage System, | IEEE System Journal, Vol.9, No.3 | September 2015 |
| 2 | Dr. M. D. Mufti | Modelling and Control of Wind Solar Hybrid System Using Energy Storage System | IEEE Conference Galgotia University U.P | Presented in April 2016 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.  No | Name of Staff Member | Title of the Paper | Conference / Journal etc where published | Date of Publishing |
| 1 | Dr. S. A. Lone | Supervisory Adaptive Predictive Control Scheme for Super Capacitor Energy Storage System, | IEEE System Journal, Vol.9, No.3 | September 2015 |
| 2 | Dr. S. A. Lone | Modelling and Control of Wind Solar Hybrid System Using Energy Storage System | IEEE Conference Galgotia University U.P | Presented in April 2016 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S.  No | Name of Staff Member | Title of the Paper | | Conference / Journal etc where published | Date of Publishing | |
| 1 | Dr. A. H. Bhat | An Improved Control Approach for Three-Phase Improved Power Quality Converter for Unbalanced AC Mains (Journal) | | Asian Power Electronics Journal. | Accepted in 2016 | |
| 2 | Dr. A.H. Bhat | A Novel Adaptive Control Approach for Three-Phase Improved Power Quality Converter Under Distorted and Unbalanced AC Mains. (Journal) | | International Journal of Industrial Electronics & Drives | Accepted in 2016 | |
| 3 | Dr. A.H. Bhat | Power Quality Improvement using Voltage Source Converter (VSC) based Unified Power Quality Conditioner (UPQC) (Journal) | | International Journal of Computer Applications (0975 – 8887) Volume 148 – No.1, | August 2016 | |
| 4 | Dr. A.H. Bhat | Shunt Hybrid Power Filter for Harmonic Reduction to Improve Power Quality using PI and Hysteresis Controller (Journal) | | International Journal of Computer Applications (0975 – 8887) Volume 147 – No.4, | August 2016 | |
| 5 | Dr. A.H. Bhat | Comparative Analysis of Shunt Active Filter with PI controller and ANN based Controller (Journal) | | nternational Journal of Computer Applications (0975 – 8887) Volume 147 – No.4, | August 2016 | |
| 6 | Dr. A.H. Bhat | Performance Evaluation of Multilevel AC/DC Converter for Power Quality Improvement with DC Bus Capacitor Voltage Balancing (Journal) | | IOSR Journal of Electrical and Electronics Engineering, vol. 11, issue 4, pp. 25-31 | July-Aug 2016, | |
| 7 | Dr. A. H. Bhat | Performance Evaluation of a Three-Phase Improved Power Quality Converter under Unbalanced Mains Conditions (Journal) | | International Journal of Scientific and Technical Advancements, 2015, pp. 17-21 | 2015 | |
| 8 | Dr. A. H. Bhat | Performance Evaluation of Fuzzy Logic Controlled Voltage Source Inverter Based Unified Power Quality Conditioner for Mitigation of Voltage and Current Harmonics (Conference) | | ICACCI IEEE conference | Sep. 21-24 2016 Jaipur India | |
| 9 | Dr. A. H. Bhat | Multilevel Inverter Based STATCOM For Simultaneous Compensation of Reactive Power And Active Power (Conference) | | IEEE International conference (EEECOS)-2016, | 1-2 june, 2016. | |
| 10 | Dr. A. H. Bhat | Power Quality Improvement and Reactive Power Compensation in a Grid Connected System for Non-Linear Loads Using STATCOM. (Conference) | | IEEE International conference (EEECOS)-2016, | 1-2 june, 2016. | |
| 11 | Dr. A. H. Bhat | Generalised Weighted Least Square Based Modified Space Vector Pulse Width Modulation for AC/DC Converter under Supply Perturbation (Conference) | | IEEE International conference (ICPEICES 2016) at DTU, | 4-6 July, 2016 | |
| 12 | Dr. A. H. Bhat | Reactive power compensation using static synchronous compensator (STATCOM) with conventional control connected with 33kV grid (Conference) | | 2015 2nd International Conference on Recent Advances in Engineering & Computational Sciences (RAECS) Pages: 1 5, | Year: 2015 | |
| 13 | Dr. A. H. Bhat | Performance evaluation of a three phase shunt active power filter for power quality improvement (Conference)  Recent Developments in Control, Automation and Power Engineering (RDCAPE), 2015 | | International Conference on Year: 2015Pages: 214 219, | 2015 | |
| 14 | Dr. A. H. Bhat | | Comparative Analysis of Pulse Width Modulated Voltage Source Inverter Fed Induction Motor Drive with Matrix Converter Fed Induction Motor Drive (Conference) | IEEE International conference (ICPEICES 2016) at DTU, | | 4-6 July, 2016 |
| 15 | Dr. A. H. Bhat | | Fuzzy Logic Controlled Three-Phase Improved Power Quality Converter For Disturbed AC Mains (Conference)  National conference and Exhibition on Emerging and Innovative Trends in Engineering Technology (NCEEITET, 16) | GCET Jammu | | 11-12 Nov. 2016. |
| 16 | Dr. A. H. Bhat | | Modified Space Vector Control Approach for Improved Power Quality Converter Under Supply and Load Perturbation | 3rd International conference on Recent Trends and Advancements in Engineering & Technology (ICRTAET),.(Conference) | | 17-18 Nov. 2016. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.  No | Name of Staff Member | Title of the Paper | Conference / Journal etc where published | Date of Publishing |
| 1 | **Dr. S.J. Iqbal** | Supervisory Adaptive Predictive Control Scheme for Super Capacitor Energy Storage System, | IEEE System Journal, Vol.9, No.3 | September 2015 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.  No | Name of Staff Member | Title of the Paper | Conference / Journal etc where published | Date of Publishing |
| 1 | Dr. M. A. Bazaz | Sensorless control of permanent magnet synchronous motor drive using unscented Kalman filter | International Journal of Industrial Electronics and Drives | June 2015 |
| 2 | Dr. M. A. Bazaz | Sensorless control of PMSM drive using extended Kalman filter and fuzzy logic controller | International Journal of Industrial Electronics and Drives | June 2015 |
| 3 | Dr. M. A. Bazaz | Direct Torque Control of Induction Motor Drive with Flux Optimization | International Conference on Advances in Computing, Communications and Informatics, ICACCI-2015 | August 2015 |
| 4 | Dr. M. A. Bazaz | Neural Network Modulation for a Direct Torque Controlled Induction Motor Drive | IEEE SCOReD, Malaysia | December 2015 |
| 5 | Dr. M. A. Bazaz | Neural Network Observer Design for Sensorless Control of Induction Motor Drive | ACODS 2016 | February 2016 |
| 6 | Dr. M. A. Bazaz | Comparative Analysis of Speed Control Strategies for Vector Controlled PMSM Drive | IEEE conference on ICCCA | April, 2016 |
| 7 | Dr. M. A. Bazaz | Sensorless Control of PMSM Drive using Neural Network Observer | IEEE conference on PEICES | July 2016 |
| 8 | Dr. M. A. Bazaz | Sensorless Control of PMSM Drive with Neural  Network Observer using a Modified SVPWM strategy | Advances in Intelligent Systems and Computing Series | August 2016 |
| 9 | Dr. M. A. Bazaz | ANFIS Based Speed Controller for a Direct Torque Controlled Induction Motor Drive | Advances in Intelligent Systems and Computing Series | August 2016 |
| 10 | Dr. M. A. Bazaz | Implementation of Hybrid Fuzzy Sliding Mode Controller for Power System Stability | IEEE international conference on ICEPES | December 2016 |

II. Programmes Conducted ( Conferences / Courses / Trainings) from 01-04-2015 to 31-03-2016: NIL

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No | Name of the Programme | Date when conducted | Name of Coordinator(s) | No & background of participants |
| 1 | Modelling & Simulation of Large Scale Systems | April 3-8 2015 | Dr. M. A Bazaz | 40  Faculty members and Research Scholars of the country. |

III. Purchases Made from 01-04-2015 to 31-03-2016

|  |  |  |  |
| --- | --- | --- | --- |
| S.No | Name of Equipment | Date of Purchase | Amount of Purchase  (amount in Rs.) |
| 1 | MiPower-Power System Analysis and Simulation Software Package | 20-05-2015 | Rs.5,89,300/- |
| 2 | One Phase Current Range 2.5/5A Low Power Factor 150/300/600 V (Watt Meters) 5 Nos  One phase Current Range 5/10A HPF 150/300/600 5 Nos.  Three Phase Element Watt. Meters Range 5/A, 10/ A, 250 / 500 V 04 Nos. | 12-05-2015 | Rs.60,112/- |

**4.1.4. DEPARTMENT OF ELECTRONICS & COMMUNICATIONENGINEERING**

**Head: Prof. G. M. Rather**

**Introduction**

The Department of Electronics & Communication Engineering was established in the year 1984.The department conducts a four (04) years under-graduate academic programme leading to the award of **B.Tech.** **Degree** in Electronics & Communication Engineering. In addition, the department started **M. Tech** **programme** in Communication & Information Technology in the year 2004.

Opportunity to do project work over a span of two semesters is provided to the students of B.Tech. to utilize their knowledge in several areas of Electronics, Communication and Computer Engineering. The students work either on design & fabrication of equipments of innovative nature or on other specific and relevant research topics as decided in consultation with the project advisor.

**Faculty:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Name** | **Designation** | **Qualification** | **Area of specialization** |
| 1 | Dr. A. H. Mir | Professor | Ph. D | Image Processing, Biomedical Engg |
| 2 | Dr. G. M. Rather | Professor & HOD | Ph. D | Digital Communication & Networking |
| 3 | Dr. Najeeb-u-Din | Professor | Ph. D | Silicon-on-Insulator (SOI) MOS devices |
| 4 | Mrs.Usha Razdan | Assc. Professor | M. Tech | Computer Science |
| 5 | Mr. A. A. Mir | Assc. Professor | M. Tech | Computer Technology |
| 6 | Mrs. Farida Khurshid | Assc.Professor | M. Tech | Image Processing & Pattern recognition |
| 7 | Mrs. Gausia Qazi | Assc. Professor | M. Tech | Optical Fiber Comm. |
| 8 | Mr. A. G. Mir | Assc. Professor | M. Tech | Comm & I. T. |
| 9 | Mr. G. R. Beigh | Assistant Professor | M. Tech | Communication Systems |
|  | **Number of Faculty Members engaged on Contractual basis = -** | | | |

**R&D Work**

**I.. Papers published (Prof.A.H.Mir)**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Title of the Paper** | **Conference/Journal etc. where published** | **Date of Publish** |
| 1 | Personal Verification using dual fusion scheme based on ear and iris biometrics | *International Journal of computing and digital systems (IJCDS)* | March-2016 |
| 2 | Reduction of Out of Band Radiation using Modified Constellation Expansion in OFDM based cognitive Radios | *International Journal of Computing &Network Technology (IJCNT)* | July-2016 |
| 3 | Advanced prediction based mobiligy in 6 LowPan WSN | *Internatiuonal Journal of Information Technology & Computer Science* | October-2016 |
| 4 | OFDM for Cognitive Radios: An overview Present Solutions and Future Directions | *International Journal of Computing and Digital Systems* | October-2015 |
| 5 | Comparative study of Time Series model based techniques for personnel veriﬁcation using ear biometrics | *International Journal of information processing (IJIP)* | August-2015 |
| 6 | A comparative study on Left and Right Endocardium Segmentation using Gradient Vector Field and Adaptive Diffusion Flow Algorithms | *International Journal of Advanced Science and Technology, Volume 82*. | August-2015 |
| 7 | Survey of Header Compression Techniques over Multiprotocol Label Switching (MPLS) | *International Journal of Computing and Network Technology, Volume 4* | April-2015 |
| 8 | Texture and morphology based MRI brain image segmentation of pituitary gland | Elixir Digital Processing 79 | March-2015 |
| 9 | Performance Analysis of Payload Header suppression (PHS) for transmission of VOIP over MTNS based IPv4/IPv6 Networks. | 2nd International Conference on Networks and information to be held in New York USA. | April-2016 |
| 10 | EMS: Enhanced mobility scheme for controlled and lossy networks | International Conference: ICGCIoT held from 8 – 10 October 2015 | Ocober-2015 |

Besides above:

Under the Visvesvaraya Ph.D scheme of Govt. of India. The two Ph.D Research Scholars were enrolled. The Research Scholar will work towards the design of 2 integrated circuits. The design of the integrated circuits is being carried out under the Project “SMDP-C2S” of MoCIT of India.

II. **Purchases Made from 01-04-2015 to 31-03-2016:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No** | **Name of the Equipment** | **Cost per unite** | **Purchase Date** | **Quantity** |
| 1 | VSWR meter | Rs. 13,904/= | 14-04-2015 | One |
| 2 | Wireless Access Point | Rs. 12,442/= | 24-04-2015 | Two |
| 3 | 4 GB DDR3 RAM | Rs. 14,400/= | 09-05-2015 | Two |
| 4 | Software Silva co TCAD | Rs. 14,77,000/= | 25-05-2015 | Complete Set |
| 5 | Laptop battery, Hard Disk and RAM 1 GB | Rs. 11,200/= | 03-06-2015 | One each |
| 6 | Stalled Line section, Tunable Probe | Rs. 11,917/= | 17-06-2015 | One each |
| 7 | VSWR meter, Pin Modulator, Slotted Section, E Plan Section, H. Plan Section, Pyramidal horn, Klystron mount. | Rs. 74,594/= | 17-06-15 | Two No’s  each |
| 8 | Storage Media 500 GB, Storage media 1 TB | Rs. 35,437/= | 17-06-2015 | Three No’s each |
| 9 | Ink Jet MFP Printer | Rs. 14,500/= | 25-06-2015 | One No |
| 10 | GPS technology trainer,  Blue tooth trainer,  Rader trainer. | Rs. 2,80,799/= | 09-07-2015 | Two No each |
| 11 | Function Generator 3 MGHZ | Rs. 1,21,540/= | 09-07-2015 | 20 Nos |
| 12 | Single Power supply | Rs. 96,040/= | 09-07-2015 | 20 No |
| 13 | Function Generators 2 MHz | Rs. 60,770/= | 09-07-2015 | 10 No |
| 14 | Analog Oscilloscope 30 MHz | Rs. 1,65,110/= | 09-07-2015 | 10 No |
| 15 | Dual Power Supply | Rs. 1,61,360/= | 09-07-2015 | 20.No |
| 16 | Digital Component Trainer Kit | Rs. 1,07,350/= | 09-07-2015 | 10.No |
| 17 | PIN Modulator, Pyramid cam | Rs. 10,158/= | 20-07-2015 | 01 each |
| 18 | Forensic Duplicator Kit | Rs. 2,60,000/= | 31-07-2015 | 01.No |
| 19 | Signal Sampling Trainer, FSK Kit, WD Muliplaxer | Rs. 89.290/= | 06-08-2015 | 01 each |
| 20 | Satellite Comm Trainer, PAM, PCM, ASK, PSK,FSK,QPSK,DQPSK,DPCM,ADPCM,Function Generator,ect | Rs. 14,39,873/= | 18-08-2015 | 63 items |
| 21 | Computer workstation Dell | Rs. 5,37,138/= | 05-09-2015 | 04.No |
| 22 | Oscilloscope | Rs. 7,77,630/= | 05-09-2015 | 46.No |
| 23 | Signal Analyzer | Rs. 22,01,593/- | 05/09/2015 | 01 No. |
| 24 | LCR meter model | Rs. 10,40,266/- | 21/09/2015 | 01 No |
| 25 | LCR meter model | Rs. 2,05,3651/- | 21/09/2015 | 01 No |
| 26 | Universal software peripheral radio, MIMO cables, Antenna USRP, Lab view | Rs. 19,00,290/- | 23/09/2015 | 29 items |
| 27 | Precision source measure unit, Power meter, CW power sensor, Std option CW power sensor | Rs. 14,67,188/- | 23/09/2015 | 08 No |
| 28 | Vaccum coating BC 300, Multifilament torret, Flash evaporation assembly | Rs. 22,59,085/- | 05/10/2015 | 01 No each |
| 29 | Analog Comm. Training system | Rs. 51,660/= | 28/10/2015 | 03 No |
| 30 | Embedded design and Testing software and hardware boards, training solution moboile zigbee line bus | Rs. 15,52,418/- | 30/10/2015 | 01 No each |
| 31 | Crewel curtains | Rs. 94,848/= | 08-11-2015 | 76. No |
| 32 | Multimeters | Rs. 20,30,148/= | 18-11-2015 | 40. No |
| 33 | Matlab Software | Rs. 1,32,827/= | 18-11-2015 | 1.No  Complete Bundal. |
| 34 | LED Display 18.5”  Spike Buster  Mouse Logitech | Rs. 7,250/=  Rs. 750/=  Rs. 550/= | 19-11-2015 | 1.No  Each |
| 35 | Signal Generator  SMBV-B 106 9KHz to 6GHz  SMBV-B10 Baseband Generator  SMBV-B92 HARD Disc.  SMBV-K22 Pulse Modulator  SMBV-K23 Pluse Generator | Rs. 13,32,450/= | 09-12-2015 | 1.No  Each |

**4.1.5. DEPARTMENT OF CHEMICAL ENGINEERING**

**Head: Dr. F.Q.Mir**

**Introduction**

The Department of Chemical Engineering was started in 1963 with a five year degree programme (B.E.) in Chemical Engineering. The Department presently offers instructions at undergraduate level leading to 4 year B.Tech. Degree in chemical Engineering.

Department has produced more than 1500 Chemical Engineering graduates, majority of them belonging to different parts of the Country and some belonging foreign countries like, Iran, Libya, Jordan, Palestine, Saudi Arabia and Sudan. The Department has been maintaining a high standard of teaching and professional training to enable the students to compete in the national and international job markets. Department has been maintaining close liaison with various Institutes and industries.

**FACULTY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Name** | **Designation** | **Qualification** | **Area of specialization** |
| 01 | Dr. Md N.S.Khan | Professor and HOD | PHD | Bio Chemical Engineering |
| 02 | Mr. F.Q.Mir | Assistant Professor | M-Tech | Membrane Science and Technology |
| 03 | Mr. T.R.Dar | Assistant Professor | BE | Chemical Engineering |
| 04 | Mr. M.A.Rather | Assistant Professor | M-Tech | Nano photocatalysis,  Environment. |
| 05 | Mr. M.P.Ahmad | Assistant Professor | BE | Chemical Engineering |
|  | **Number of Faculty Members engaged on Contractual basis = 04** | | | |

**4.1.6 . DEPARTMENT OF METALLURGY AND MATERIALS ENGINEERING**

**Head: Dr. D. M. A. Khan**

**Introduction**

The department of **“Metallurgical & Materials Engineering”** formerly known as the “Department of Metallurgical Engineering” was established in our Institute in the year 1963. The department conducts a four (04) years under-graduate academic programme leading to the award of **B.Tech.** **Degree** in engineering.

A two semester “Project Work” is provided to the students to synthesize their knowledge in several areas of metallurgical & materials engineering.

The objective of the department is to produce technocrats who possess besides necessary technical knowledge, human and social values, leadership qualities and a high degree of confidence & technical creativity.

The department through interactions with academia and industries at national levels intends to excel in metallurgical and materials engineering and in the allied areas by up-dating its academic curriculum and R & D activities so as to meet the requirements of the academia, industries and R & D centres.

**Faculty:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No** | **Name** | **Designation** | **Qualifications** | **Area of Specialization** |
| 1. | Dr. R. Ambardar | Professor | Ph.D | Metal Casting, NDT & E, Materials Technology |
| 2. | Dr. D. M. A. Khan | Professor & HOD | Ph. D | Composite Materials,  Process Metallurgy |
| 3. | Er.Yashwant Mehta | Asstt. Prof. | M. Tech. | Corrosion Engineering  Joining of Materials |
| 4. | Dr. Atiqur Rehman | Asstt.Prof | Ph. D. | Nano-Structured Coatings, High temperature Coatings, |
|  | **Number of Faculty Members engaged on Contractual basis = 04** | | | |

**R&D Work:**

I. Papers published:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No. | Name of the Staff Member | Title of the Paper | Conference/Journal etc. where published | Date of Publication. |
| 1. | Mr.Yashwant Mehta  Asstt. Prof | “Metallography of Fe-P-C and Fe-P-C-N Alloys” | Metallography, Microstructure and Analysis 4 pp-488 | 2015 |
| “Physical Simulation of Hot Deformation and Mocrostructural Evolution of Fe-0.05C-0.13P” | Journal of Materials Engineering and Performance,25  pp 1376. | 2016 |
| 2. | Dr. AtikurRahman,  Asstt Prof. | “Synthesis, Characterization and Photocatalytic Studies of   La, Dy - doped ZnO nanoparticles, | Transactions of the Indian Institute of Metals | 29th April, 2016 |
| “ Study of nanostructured CeO2  Coatings on Superalloy, | Surface Engineering , **Vol.26(10)2016,771-778** | 2016 |
| “ Study of nanostructured Co and Al co-doped ZnO films fabricated by electroless technique” | Surface Engineering , **Vol.32(5),2016,372-377** | 2016 |
| “ Study of nanostructured Co and Al co-doped ZnO films fabricated by electroless technique” | Surface Engineering **Vol.32(5),2016,372-377** | 2016 |
| “Al doped ZnO nanostructured thin films: density functional theory and experiment” | International Journal of Nanoscience | **Accepted & Published online on 13 April-2015,** |

II. Programmes attended by staff (Conferences/ Courses/ Trainings)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No. | Name of the Staff Member | Name of the Programme attended | Institute where attended | Date. |
| 1. | Prof. Dr. D.M.A. Khan | STC on Bio Materials | IIT Kanpur | 7-11 Dec., 2015 |
| 2. | Dr. AtikurRahman,  Asstt Prof. | International Conference on Advances in Nanomaterials and Nanotechnologies  (ICAA-2016) | JamiaMilliaIslamia, New Delhi | 4-5th Nov. 2016 |
| International Conference on Recent Trends in Energy Technology  (ICRET-2016) | Haldia Institute of Technology, Haldia WB. | 21-23 January, 2016. |

III. Programmes conducted (conferences/Courses/Trainings)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No. | Name of the Programme | Date when conducted | Name of the Coordinator(s) | No. & Background of participants. |
| 1. | Prof. Dr. D.M.A. Khan  “Advanced Materials and Materials Processing “  (AMMP-15) | May 22-23,2015  At NIT Srinagar | Dr. AtikurRahman  Asstt. Prof. | 30 Participants from BARC, Kashmir University, IIT Kanpur and the Indian Institute of Metals Kolkata etc .  Prof. Indronil Manna, Director, IIT was the Guest of Honor |
| 2. | TEQIP Workshop on Metallurgical and Materials Curriculum in collaboration with IIT Kanpur. | 8-9 Oct., 2015 at NIT Srinagar. | Dr. AtikurRahmanAsstt. Prof. | 30 Participants from IIM,IITs, ITSE, NITs, PEC Chandigarh. |

IV. Any other activity/ achievement with detail:

1. Conducted NMD (National Metallurgist Day) on 12th Nov. 2015 by organizing Expert Lectures and Seminars.

2. Invited Prof. Abinandan (IISc, Bangalore), Prof. U.K. Chatterjee (The IIM), Prof.AsishGarg(IIT, Kanpur) Prof. Rajeev Shekhar (IIT KANPUR) for delivering expert lectures to the students and research scholars of the department.

V. Purchases Made:

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Name of the Equipment/Item | Date of Purchase | Amount of Purchase |
| 1. | High Energy Ball Mill | 30-03-2016 | Rs. 7,45,916.52 |
| 2. | Hot Air Ovens (03) Nos | 14-03-2016 | Rs. 4,22,962.50 |
| 3. | Tube Furnace | 04-01-2016 | Rs. 3,50,600 |

**4.1.7 . DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**Head:** M. Ahsan Chishti

**Introduction**

The Department of Computer Science & Engineering was started in the year 2007, offering four year undergraduate courses, wherein undergraduate students are imparted knowledge in multitude of specialties, including: computer Architecture, Network, Operating System, Data Structure and Algorithm, Theory of Computation, Numerical analysis, Compiler design, Graphics, Artificial intelligence, Database Management System, Data mining, Software Engineering, Human computer interaction, etc.

The Department of Computer Science and Engineering embodies the Institute's tradition of excellence as a world-class leader in computer science and engineering education and research. CSE is in a period of exciting growth and opportunity. In the current ever evolving industrial scenario contents delivered to the students are regularly updated by the faculty members who have themselves been at the helm of path breaking researches and innovations.

In addition to academic work, the CSE department also has computer science research programmes (for a full listing of specialties visit Research Areas) supported through government and industry funding. Faculty research helps define and expand the current and future use of technology.

During the year the students passed out from the department got placed in various National and Multinational companies with 100% placement.

**Faculty:**

The department has qualified faculty and the major areas of expertise available includes disciplines viz., Computer & Network Security, System Design, , Image Processing, Computer Networks, Design and analysis of Algorithms etc.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Name** | **Designation** | **Qualification** | **Area of specialization** |
| 1 | Dr. Roohie Naaz Mir | Professor | Ph. D. | Network Security, System Design |
| 2. | M. Ahsan Chishti | Assistant Professor | M. S. | Computer Networks, IPV6. |
| 3. | Shaima Qureshi | Assistant Professor | M. S. | Mobile IP, Algorithms |
|  | **Number of Faculty Members engaged on Contractual basis = 07** | | | |

**Laboratories**:

The department has well equipped laboratories which include OOPs lab, Graphics Lab, Network Security lab etc.

**R&D Work**

I. **Papers published:**

**Patents:**

|  |  |  |
| --- | --- | --- |
| **Name of Inventor** | **Title** | **Patent No.** |
| Mohammad Ahsan Chishti | Agent Based Secure Routing System for Complete Privacy | Indian Application Number: 1848/DEL/2015 A  Dated: 22/06/2015  Publication Date (U/S 11a): 17/07/2015 |
| Mohammad Ahsan Chishti | A method for robust header compression (ROHC) over Multiprotocol Label Switching (MPLS) | Indian Application Number: 2435/DEL/2015  Dated: 07/08/2015 |
| Mohammad Ahsan Chishti and Shaima Qureshi | Wireless Mobile Charge Sharing | Indian Application Number: 4201/DEL/2015  Dated: 21/12/2015 |

**Papers:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Title of paper** | **Conf/Journal** | **Date** |
| Roohie Naaz Mir | Technology Optimized Fixed-point bit-parallel  Multiplier for LUT-based FPGAs | Int. J. High Performance Systems Architecture | Vol. 6, No. 1, 2016  pp 28-35. |
| Roohie Naaz Mir | High Efficiency generalized Parallel counters for Look-Up Table Based FPGAs | International Journal of Reconfigurable Computing | Oct 2015  DOI: 10.1155/2015/518272 |
| Roohie Naaz Mir | Achieving Performance Speed-up in FPGA Based Bit-Parallel Multipliers using Embedded Primitive and Macro support | International Journal of Advances in Telecommunications, Electrotechnics, Signals and Systems | Vol. 4, No. 2 (2015)  DOI: 10.11601/ijates.v4i2.115 |
| Roohie Naaz Mir | Cost Effective Implementation of Fixed Point Adders for LUT based FPGAs using Technology Dependent Optimizations | International Journal of ELECTRONICS | VOL. 19, NO. 1, JUNE 2015. |
| Roohie Naaz Mir | Quality of Service in WSN – A Review | International Journal of Computer Applications  **ISBN** : 973-93-80885-65-5 | Volume 113 - Number 18  Year of Publication: 2015   |  |  | | --- | --- | | DOI: | 10.5120/19929-2072 | |
| Roohie Naaz Mir | A Constant Word-length Bit-Parallel Coordinate Rotation Digital Computer based Multiplier for Fixed-Point Digital Signal Processing Operations | International Journal of Information Technology and Electrical Engineering | Volume 4, Issue 1 February 2015  ISSN: - 2306-708X |
| Roohie Naaz Mir | High Efficiency Generalized Parallel Counters for Xilinx FPGAs | 2015 IEEE 22nd International Conference on High Performance Computing | DOI 10.1109/HiPC.2015.41  pp 40-46 |
| Roohie Naaz Mir | Technology Optimized Fixed-Point Bit-Parallel Multiplier for LUT Based FPGAs | IEEE SPONSORED 2nd INTERNATIONAL CONFERENCE ON ELECTRONICS AND COMMUNICATION SYSTEMS (ICECS 06/2015) | 978-1-4788-7225-8/15 ©2015 IEEE |
| Roohie Naaz Mir | Optimizing FPGA based Fixed-point Multiplier using Embedded Primitive and Macro-support | International Conference on Advances in Computers, Communication and Electronic Engineering | March 16-18, 2015, J&K, India.  DOI: 10.13140/RG.2.1.2568.0727 |
| Roohie Naaz Mir | FPGA Evaluation of Wave Front Allocator for crossbar based on-chip switches | International Conference on Advances in Computers, Communication and Electronic Engineering | March 16-18, 2015, J&K, India.  ISBN: 978-93-82288-54-1  DOI: 10.13140/RG.2.1.3170.1843 |
| Roohie Naaz Mir | A Cost Optimal Implementation of CORDIC Algorithm on Virtex-4 FPGAs using Technology Dependent Optimizations | 2nd International Conference on “Computing for Sustainable Global Development”,  (BVICAM), New Delhi (INDIA) | 11th – 13th March, 2015  DOI: 10.13140/RG.2.1.4927.3688 |
| Roohie Naaz Mir | Performance Evaluation of Different Allocation Algorithms using FPGA Platforms | IEEE Sponsored 2nd International Conference on Electronics and Communication Systems (ICECS 06/2015) | Coimbatore;  DOI: 10.1109/ECS.2015.7125020 |
| Mohammad Ahsan Chishti | Survey of Header Compression Techniques over Multiprotocol Label Switching (MPLS) | International Journal of Computing and Network Technology | Volume 4, No.2 (Apr-2015). ISSN: 2210-142X |
| Mohammad Ahsan Chishti | Hybrid Wireless Mesh Protocol in static IEEE 802.11s Networks | International Conference on Advances in Computers, Communication, and Electronic Engineering (COMMUNE 2015) | March 16-18, 2015 at university of Kashmir, Srinagar. ISBN 978-93-82288-54-1 |
| Mohammad Ahsan Chishti | Performance Analysis of Traffic Engineering (TE) in IPv6 with IPv4 over Multi Protocol Label Switching (MPLS) | International Journal of Computing and Network Technology | Volume 3, No. 1, Jan. 2015. ISSN: 2210-1519 |
| Mohammad Ahsan Chishti | Survey of Traffic Engineering mechanism with IPv6 over Multi Protocol label Switching (MPLS) | IEEE International Conference on Computing and Communications technologies (ICCCT’15) | Feb 26-27, 2015, Chennai |
| Mohammad Ahsan Chishti | Performance Analysis of Internet Protocol version 4 (IPv4) and Internet Protocol version 6 (IPv6) over MPLS | International Journal of Computing Network Technology (IJCNT) | issue 3, Vo l. 2, Sept, 2014. |
| Mohammad Ahsan Chishti | DiffServ-Aware Multi Protocol Switching based Quality of Service in Next Generation Networks | 4th IEEE International Advanced Computing Conference (IACC 2014) | Feb 21-22, 2014 at ITM University Gurgaon. |
| Mohammad Ahsan Chishti | Seamless Handoff in WiFi & WiMax Wireless Heterogenous Networks | 4th IEEE International Advanced Computing Conference (IACC 2014) | Feb 21-22, 2014 at ITM University Gurgaon. |

**II. Programmes conducted by staff:**

1. Techkriti – Network & Cyber Security Championship 2016 IIT Kanpur & NIT Srinagar, 18-20th March 2016
2. Intellectual Property Rights and career opportunities by Arshid Ahmad Sheikh, Patent Attorney, Condo Roccia Koptiw, USA, 10-08-2015 at 12:00 noon.

3. MOU between NIT Srinagar and IEEE (USA) on 14th September 2015 at National Institute of Technology Srinagar. In this regard the signing ceremony was held in the CSE High Tech room on 14th September 2015 (Monday).

**III. Any other activity/achievement:**

Dr. Mohammad Ahsan Chishti, Assistant Professor & Head, Department of Computer Science & Engineering, National Institute of Technology Srinagar, Kashmir has been awarded the prestigious "**IEI Young Engineers Award 2015-2016**" in Computer Engineering Discipline by The Institution of Engineers (India) (IEI) in recognition of the contributions made by him in the field of computer engineering. The award consists of a certificate and plaque. The award was given for his remarkable contribution with more than 50 research publications to his credit and 8 patents with two granted International Patents.

IV. **Purchases made:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No** | **Bill No** | **Name of Items** | **Total** | **Amount** |
| 1. | 180/29-4-2015 | Microprocessor Kits | 08.Nos | Through CPU |
| 2. | 3548/24-6-15 | Vaccum Cleaner | 01.Nos | Rs.11236.50/= |
| 3. | 245/23-7-15 | USB Mouse | 14.Nos | Rs.4,592/= |
| 4. | 024/15-7-2015 | Wireless Access Point | 01.No | Rs.12,075/= |
| 5. | Nil (CPU) | Photostat Machine | 01.No | Rs.1,85,000/= |
| 6. | Nil (CPU) | Computers | 50.Nos | Rs.25,70,050/= |
| 7 | Nil (CPU) | Information Kisok | 02.Nos | Rs.2,49,000/= |

**4.1.8 . DEPARTMENT OF INFORMATION TECHNOLOGY**

**Head: Mr.** Shabir Ahmad Sofi

**Introduction**

The Department of Information Technology was established in 2007, offering four year undergraduate programme (B.Tech) in Information Technology. This undergraduate programme is of 4 years duration with the first year spread over two semesters which is common to all the branches. The intake capacity of the department was 40 in 2007 and then subsequently increased to 60 in 2011. The Department offers a broad curriculum including: Database Management, Software Engineering, Management of Information Systems, Data mining, Computer Graphics, Advanced Internet Technology, Computer Networks, Operating System, Data Structures and Algorithms as the main courses and other courses in collaboration with the other departments of the Institute at the undergraduate level.

The Department of Information Technology embodies the Institute's tradition of excellence as a world-class leader in IT education and research. IT sector is in a period of bloom in terms of growth and opportunity. In the current ever evolving industrial scenario contents delivered to the students are regularly updated by the faculty members who have themselves are well acquainted with path breaking research and innovations in the present technology-oriented world.

During the year the students passed out from the department got placed in various National and Multinational companies with 100% placement.

**Faculty:**

The department has qualified faculty and the major areas of expertise available includes disciplines viz. Computer and Communication Networks, Computer & Network Security, Wireless and Mobile Communication, Wireless Sensor Networks, Image Processing etc.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Name** | **Designation** | **Qualification** | **Area of specialization** |
| 1 | Shabir Ahmad Sofi | Assistant Professor | M. Tech. | Wireless Sensor Networks, Computer & Communication Networks |
| 2 | Arooj Nissar | Assistant Professor | M. Tech. | Image Processing |
|  | **Number of Faculty Members engaged on Contractual basis = 07** | | | |

**R&D Work:**

Paper published:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S No.** | **Name of the Staff Member** | **Title of the Paper** | **Conference/ Journals where Published** | **Date of Publishment** |
| 1 | Shabir Ahmad Sofi | "Data Compression in Wireless Visual Sensor Networks using Wavelets" | WiSPNET-2016 | 23 March, 2016 |
| 2 | Shabir Ahmad Sofi | Bio Inspired Energy efficient adaptive clustering hirarchy algorithm for wireless sensor networks. | ICEECE- 2016 | 23 March 2016 |
| 3 | Shabir Ahmad Sofi | Pollution monitoring of water bodies by Remote Sensing vs WSN | National Seminar on World Environmental Day (Kashmir University) | 5 June 2015 |
| 4 | Insha Altaf | An Effective Harmony Search Algorithm for solving optimization problems. | ICIIECS-2016 | 18, March,2016 |
| 5 | Insha Altaf | Intrusion detection for Mobile Adhoc Networks | ICIIECS-2016 | 18, March,2016 |
| 6 | Insha Altaf | Robust and efficient communication for decentralized  and distraction tolerent networks. | ICIIECS-2015 | 18 April,2015 |
| 8 | Insha Altaf | EMO Voice-Real time Emotion Recognition from Speech. | IJREST | 27,Feb,2016 |
| 9 | Insha Altaf | Comparison of modulation schemes for optimistic  transmission and reception in dvb-s2 link. | International  conference on sustainible development and technological innovation | 23, Dec,2015 |
| 10 | Insha Altaf | Design and analysis of modified playfair square cipher algorithm using 10 by 9 matrix with ‘n’ iteration followed by ‘n’ substitutions. | International Journal of Universal Science and  Technology | Dec,2015 |
| 11 | Insha Altaf | Vulnerability Assessment& Patching Management. | ICSCTI-2015 | 09, Oct, 2015 |
| 12 | Insha Altaf | Survey on Parameter Estimation in Software Reliability | ICSCTI-015 | 09, Oct 2015 |
| 13 | Insha Altaf | Survey on Selenium Tool in Software Testing. | ICGCIOT-2015 | 09,Oct,2015 |
| 14 | Insha Altaf | Soil moisture content monitoring system. | IJIRST | Oct,2015 |
| 15 | Saniya Zahoor | Uniqueness in user behavior while using the web | ICICT,2015 | 09,Oct,2015 |
| 16 | Saniya Zahoor | A framework to infer webpage relevancy for a user | ICTIS,2015 | 28, Nov, 2015 |
| 17 | Saniya Zahoor | Petelcods–personalized television content delivery system : a leap into the set-top box revolution | ICTIS,2015 | 29 Nov,2015 |
| 18 | Saniya Zahoor | Zone specific weather monitoring system using crowdsourcing and telecom infrastructure | ICIP,2015 | 16 Dec,2015 |
| 19 | Saniya Zahoor | Personalization in user profiling – security and privacy issues | IOTA,2016 | 22 Jan, 2016 |
| 20 | Neelam Khan | Efficient multi keyword synonym based Fuzzy ranked search over out sourced encrypted cloud data | ICACCT-2015 | 27 Nov. 2015 |
| 21 | Insha Majeed | Intrusion detection for Mobile Adhoc Networks | ICIIECS-2016 | 18, March,2016 |
| 22 | Insha Majeed | An Effective Harmony Search Algorithm for solving optimization problems. | ICIIECS-2016 | 18, March,2016 |
| 23 | Jehangir Ali | Pollution monitoring of water bodies by Remote Sensing vs WSN | National Seminar on World Environmental Day (Kashmir University) | 5 June, 2015 |

**II. Programmes Attended by Staff (Conferences/Courses/ Trainings):**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S No.** | **Name of the Staff Member** | **Name of the Programme Attended** | **Institute Where Attended** | **Date** |
| 1 | Shabir Ahmad Sofi | CSCAN- 2016 | NIT Calicut | 20/21 Feb, 2016 |
| 2 | Ms. Saniya Zahoor | ICTIS,2015 | Venus College, Ahmedabad, Gujrat | 28/29 Nov, 2015 |
| 3 | Ms. Saniya Zahoor | ICIP,2015 | PCCOE College,Pune | 16/19 Dec, 2015 |
| 4 | Ms. Saniya Zahoor | IOTA,2016 | MIT, Pune | 21/22 Jan, 2016 |
| 5 | Mr. Jahangir | National Seminar on Environmental Pollution | University of Kashmir | 4-5 June,2016 |
| 6 | Mr. Kalimullah | Open Source Technologies through ICT | NIT Srinagar | 04-08 Jan, 2016 |
| 7 | Mr. Aijaz | Open Source Technologies through ICT | NIT Srinagar | 04-08 Jan, 2016 |
| 8 | Ms. Insha Altaf | Open Source Technologies through ICT | NIT Srinagar | 04-08 Jan, 2016 |
| 9 | Ms. Insha Majeed | Open Source Technologies through ICT | NIT Srinagar | 04-08 Jan, 2016 |
| 10 | Ms. Farhana | Open Source Technologies through ICT | NIT Srinagar | 04-08 Jan, 2016 |
| 11. | Ms. Saniya Zahoor | ICICT,2015 | Singhad College, Pune | 09/10 Oct, 2015 |

**III. Programmes Conducted (Conferences/ Courses/ Trainings):**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S No.** | **Name of the Programme** | **Date when Conducted** | **Name of the Coordinators(s)** | **No. and Background of Participants** |
| 1 | Open Source Technologies in collaboration with NITTTR Chandigarh | 4-8 jan, 2016 | Shabir Ahmad Sofi, Jehangir Ali, Kalimullah Lone | 60 Participants which include Faculty members and Research Scholars. |

**IV. Purchases Made:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S No.** | **Name of the Equipment** | **Date of Purchase** | **Amount of Purchase** |
| 1 | HP Desktop Systems (60 PC’s) | 25/09/2015 | 3238263.00 |
| 2 | Computer Components | 05/10/2015 | 4000.00 |
| 3 | ExHDD(2 tb), pen drive, connectors | 23/03/2016 | 14749.00 |
| 4 | Switch (8 Port), Extention Card, Vaccum Cleaner, Cable, Hooks | 23/03/2016 | 14726.00 |
| 5 | Switch, CAT 6 UTP | 23/02/2016 | 14992.00 |
| 6 | Ex HDD (2 tb) , Connectors, Switch (8 Port) | 23/03/2016 | 14301.00 |
| 7 | A C | 14/03/2016 | 45440.00 |
| 8 | IBM Blade Server | 24/03/2016 | 429472.00 |
| 9 | Laptops, an UTP Tester, Wireless LAN Cards, Multimeter | 30/11/2015 | 150110.00 |

**4.1.9. DEPARTMENT OF MATHEMATICS**

**Head: Dr. Tanweer Jalal**

**Introduction**

The Department of Mathematics, National Institute of Technology, Srinagar started its functioning in the year 1960. During past 52 years many mathematicians of International repute like Prof. Q. I. Rehman (presently working in Canada), Prof. M .A .Ansari (Bretlee - Ansari’s test), Prof. S. I. Hussain (Coordinator of NCERT Books), Prof. A. H. Siddiqui (Ex – Pro Chancellor Aligarh Muslim University) and many worked in the Department. The faculty members of this department are actively engaged in research and have published around 60 research papers in last five years in National and International journals.

**Faculty**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Name** | **Designation** | **Qualification** |
| 01 | Dr. Abdul Liman | Associate Prof. & Head | Ph.D |
| 02. | Dr. Zamrooda Jabeen | Assistant Professor | Ph.D |
| 03. | Dr.Tanweer Jalal | Assistant Professor | Ph.D |
| 04. | Dr. Neyaz Ahmad Sheikh | Assistant Professor | Ph.D |
|  | **Number of Faculty Members engaged on Contractual basis = 04** | | |

* **The Department also engages the Mathematics and other relevant Courses at B.Tech and M.Tech. levels of all branches of Engineering in the Institute.**

**R&D Work:**

I. **PAPERS PUBLISHED:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Dr. Ab. Liman** | | | | | | | |
| S. No | Name of the staff member | | Title of the paper | Conference/Journal where published | | Date of publication | |
|  |  | |  |  | |  | |
| 1. | Dr.Ab. Liman, W.M. Shah & S.L.Wali | | Inequalities Concerning  B-Operators | Probl. Anal. Issues Anal., | | 5 (23), No. 1 55–72,  (2016). | |
| 2. | Dr.Ab. Liman,  & S.L.Wali | | An operator preserving inequalities between polynomials | Non. Func. Anal. Appl., | | 20(3), 441-451 (2015) | |
| **Dr. Tanweer Jalal** | | | | | | | |
| 1. | Dr.Tanweer Jalal | Some Matrix Transformations of  into the spaces of Invariant Means | | | Int. J.M.M.Sc., | | 13 (4), 285-391 , 2015.  (Florida, USA) |
| 2. | Dr.Tanweer Jalal , N. A. Sheikh & A.H. Ganie | Matrix transformations of some sequences over Non- Arch median fields | | | J. Appld. Computat. Math., | | 4(3) , 2015. |
| 3. | Dr. Tanweer Jalal | On some new sequence spaces of invariant means with respect to modulus functions, | | | Int.J.M.M.Sc., | | 13(3), 206-210, 2015.  (Florida, USA) |
| 4. | Dr. Tanweer Jalal | Some new sequence spaces defined by Museilak-Orlicz functions on a Real n-normed space Gen. Math | | | Gen. Math. Notes | | 27 (2) , 47-58, 2015. |
| 5. | Dr. Tanweer Jalal | Some new sequence spaces in multiple normed spaces through Lacunary sequences Using Sequence of Modulus  Fucntions in n-Normed Spaces, | | | Int. Bull. Math. Research | | 2(1), 173-179, 2015. |
| **Dr. Neyaz Ahmed** | | | | | | | |
| 1. | Dr. Neyaz Ahmed, T. Jalal & Ab.Hamid | | Some new type of difference sequence spaces defined by modulus function | Journal of Nonlinear Functional Analysis | | Accepted | |
| 2. | Dr. Neyaz Ahmed, & Ab. Hamid | | Infinite matrices and almost convergence | Filomat, | | 29(6), 2014), 1183-1188 (2015) | |
| 3. | Dr. Neyaz,  D Kumar & MobinA. Sayed | | Infinite Matrix Operators, Spline Wavelet Coefficients & Frames | British Journal of  Mathematics &  Computer Science, | | 8 (2), 159-169, 2015. | |
| 4. | Dr. Neyaz Ahmed & Ishtiaq Ahmad | | Some Study on Uncertainty principle | Int. J. M. M. Sc., | | 13 (3), 198-209,(2015) (Florida, USA) | |
| 5. | Dr. Neyaz Ahmed, Seid M Teum & Mobin A. Sayed | | Convolution Inequality and Cos Theorem, | IJSEAS, | | 1 (9), 1-9, (2015) | |

**II. PROGRAMMES ATTETNDED (CONFERENCES/COURSES/TRAININGS):**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S. No | Name of the staff member | Name of the program me attended | Institute where attended | Date |
| 1. | Dr. Tanweer Jalal | International Conference on Function Spaces and Inequalities | South Asain University Delhi | 08-12 Dec. 2015 |
| 2. | Dr. Tanweer Jalal | International Conference on Analysis and Applications | AMU, Aligarh | 19-21 Dec. 2015 |
| 3. | Dr. Tanweer Jalal | International Conference On Modern Mathematical Methods and High Performance Computing in Science and Technology (M3HPCST-2015) | Raj Kumar Goel Institute of Technology Ghaziabad | 27-29 Dec. 2015 |
| 4. | Dr. Tanweer Jalal | International Conference on Recent Trends in Engineering and Materials Science (ICEMS-2016) | Jaipur National University, Jaipur | 17-19,March 2016 |

**III. PROGRAMMES CONDUCTED (CONFERENCES/COURSES/TRAININGS):**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S. No | Name of the Program me | Date when conducted | Name of Coordinators | No. and Background of participants |
| 1 | Conference on Complex Analysis and Applications | 17/03/2016 | Dr. Tanweer Jalal  Dr. Abdul Liman  Dr. Neyaz Ahmad | 25  Faculty members From Kashmir University, Degree Colleges & Research Scholars |

IV. PURCHASES MADE:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S. No | Name of the Equipment/Item | Quantity | Date of Purchase | Amount of Purchase |
| 1. | Basic Digital Photocopier SMCS:30 (DGS&D) | 01 | 28/09/2015 | Rs 126275/= |

**Other Activities**:

(1) Two Ph.D Scholars completed their Ph.D degrees during 2015-2016.

1. Mr. Farooq Ahmad Lala (Supervisor Dr. Neyaz Ahmad Sheikh)

2. Mr. Irshad Ahmad (Supervisor Dr. Abdul Liman)

**4.1.10. DEPARTMENT OF PHYSICS**

**Head: Prof. M.F. Wani**

**Introduction**

The Department of Physics was established in 1960 and since then it remained actively engaged in imparting the instructions at U.G. level in addition of achieving higher standards in the field of research by guiding M.Phil/Ph.D programs and other sponsored research projects.

It offers two semester compulsory course of basic physics so necessary for engineering students. Besides, the Department offers Electromagnetic Fields and waves, Electronic Devices to the 5th semester (Electronics and Communication) students and Electromagnetic Field and Waves to the 3rd semester (Electrical) students. Besides, the Department has the expertise for giving elective courses, for students of the Civil, Electrical , Mechanical and Metallurgical Engineering Departments.

The Institute acquired the status of National Institute of Technology in August 2003. Since then, the Department of Physics remained very active in research and other academic activities. Till date more than 45 scholars have been awarded the degree of M. Phil/Ph. D. More than 500 research publications in the national and International Journals of repute have been published. Many research projects have been successfully completed and many are running in the Department. The Department is presently very active in research in different fields like Studies of Ionospheric and Magnetospheric Plasma, Material Science, Nuclear Physics, Solid State Physics, Photonics, Renewable sources of energy and Nano-science and Technology. At present 8 research scholars are working in various fields for their M. Phil and Ph. D Degree

**Faculty**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Name** | **Designation** | **Qualification** | **Area of specialization** |
| 01 | Dr. M. M. Ahmad | Professor | Ph.D | Space Plasma/Nano |
| 02 | Dr. G. R. Khan | Associate Professor & Head | Ph.D | Nanotechnology/Fiber optics/Quantum Theory |
| 03. | Dr. P.A. Ganai | Associate Professor | Ph.D | Nuclear Physics |
| 04. | Dr. M. Ikram | Associate Professor | Ph.D | Solid State Physics |
| 05. | Dr. S. Rubab | Associate Professor | Ph.D | Renewable energy Source |
| 06. | Dr. M.A. Shah | Assistant Professor | Ph.D | Material Science |
|  | **Number of Faculty Members engaged on Contractual basis = 02** | | | |

**The Department also engages the Physics and other relevant Courses at B.Tech level of all branches of Engineering in the Institute.**

**.**

**R & D Work**

1. ***PAPERS PUBLISHED:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S. NO | NAME OF THE SAFF MEMBER | TITLE OF THE PAPER | CONFERRENCE/ JOURALS ETC. WHERE PUBLISHED | DATE OF PUBLISHEMENT |
| 1. | **Dr. Mohd Ikram** | Structural Analysis and Dielectric Properties of HoFe1-xNixO3¬ (0.0≤x≤0.5). | Journal of Electronic Materials, Vol. 44, No. 4, (2015**) [I.F= 1.798 ].** | 2015 |
| “Structural, Magnetic and Electronic Structure Studies of PrFe1-xMnxO3 (x=0.0, 0.1, 0.3, 0.5)Thin Films Grown on Si (100) | Journal of Alloy and Compound **628** 151–157 (2015) **[I.F=2.999].** | 2015 |
| An investigation of Electrical, Magnetic and Optical,Properties of La1-xCaxMnO3 (x= 0.0, 0.3, 0.5 and 0.7) system” | Adv.Mat. Lett. **6(7),** (2015) **[I.F= 1.99].** | 2015 |
| Electrical and magnetic properties of the pulsed laser deposited Ca doped LaMnO3 thin films Si(100) and their electronic structures” | RSC Adv., **5**, 69075 (2015) **[I.F= 3.840].** | 2015 |
|  | Effect of Mn doping on Structural, Morphological and Dielectric properties of EuFeO3ceramics” | RSC Adv., **5**, 93867(2015) **[I.F= 3.840].** | 2015 |
| Correlative exploration of Structural, Optical and electronic properties of colossal Dielectric Ni doped Sm orthoferrites” | Adv.Mat. Lett. **6(12),** 1081-1097 (2015) **[I.F= 1.99].** | 2015 |
| Effect of 200 MeV Ag12+ ion irradiations on  structural, morphological and magnetic properties of HoFe1-xNixO3  (x = 0.0, 0.1, 0.3 and 0.5) thin  films grown on Si (100) substrates” | accepted in Journal of Materials Science: Materials in Electronics (2016) DOI 10.1007/s10854-015-4195-5**[I.F= 1.569].** | 2016 |
| Influence of B-site Ni Substitution for Fe3+ Ion on Morphological, Optical and Magnetic Properties of HoFeO3 Ceramics” | accepted in Applied Physics A(2016) **[I.F= 1.704].** | 2016 |
| An investigation of Electrical, Magnetic and Optical, Properties of La1-xCaxMnO3 (x= 0.0, 0.3, 0.5 and 0.7) system. | Adv. Mat. Lett. | 2015 |
|  |  | Ion-beam-induced ferromagnetism in Mn-doped PrFeO3 thin films grown on Si (100). | Applied Physics A, **44**  (2016) **[I.F= 1.704].** | 2016 |
| 3. | **Dr. S Rubab** | Oxidative etching  Modified Sol-Gel Synthesis of ZnO Nanorods. | Advanced Science Letters, Vol 22, No 1  Pp212-215, DOI:10.1166/  asl.2016.6775 | Jan, 2016 |
| 4. | **Dr. M.A. Shah** | 1. Akhoon, S. A., Sofi, A. H., Rubab, S., & **Shah, M. A**. Enhanced Structural and Electrochemical Properties of LiMn2O4 Nanocubes. *Journal of Electronic Materials*, (2016) 1-7. Springer. 2. Sofi, A. H., Abubakr, B., & **Shah, M. A**. (2016). Enhancement of figure of merit of thermoelectric materials: a new theoretical approach. *Thermophysics and Aeromechanics*, *23*(2), 255-260. Springer. 3. Maini, A., Sofi, A. H., & **Shah, M. A.** (2016). Agglomerated Copper Oxide (CuO) Nanostructures and Their Growth Mechanism. *Advanced Science Letters*, *22*(4), 1042-1044. 4. Kaleem Ahmad Najar, Nazir Ahmad Sheikh1, Sajad Husain Din and **M. A. Shah.** Effect of Boron-doping on the Tribological & Mechanical Properties of Multilayered CVD diamond Coatings: Behaviour of Load dependent Friction (Accepted for Publication in Advanced Materials Letters 2016). VBR Press. 5. Nanotechnology: An Insight, A. H. Sofi & **M.A. Shah**, LAP Lambert Academic Publishing, Germany (2016). ISBN: 978-3-659-84978-7. 6. Sajad Hussain Din, **M. A. Shah**, N. A. Sheikh, K. A. Najar, K. Ramasubramanian, S. Balaji, M. S. Ramachandra Rao. Influence of boron doping on mechanical and tribological properties in multilayer CVD diamond coating system. Bulletin of Material science, Springer (Accepted for Pulication in July 2016). 7. Kaleem Ahmad Najar, Nazir Ahmad Sheikh, Sajad Din& **Mohammad Ashraf Shah**. Effect of CVD-diamond coatings on the tribological performance of cemented tungsten carbide substrates. Jurnal Tribologi, 9 (2016) 1-17 (DOI: 10.13140/RG.2.1.3610.5840). 8. K. A. Najar, **M. A. Shah** and N. A. Sheikh. Integrity of CVD-Diamond Coatings on Cemented Tungsten Carbide Substrate: Mathematical Analysis carried out for Calculating the Force of De-lamination and Load Bearing Capacity of Coating-substrate System. Elixir Nanotechnology 90 (2016)37463-3746 |  |  |

1. ***PROGRAMME ATTENDED (CONFREENCES/COURSES/TRAINING):***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S. NO. | NAME OF THE SAFF MEMBER | NAME OF THE PROGRAME ATENDED | INSTITUTE WHERE ATENDED | DATE |
| 1. | **Dr. Mohd.**  **Ikram** | **National Conference on “Microscopy & Advances in Material Science (NCMAMS-2015).** | **Department of Physics & Electronics University Of Jammu.** | **March 2-4 , 2015.** |
| **UGC Sponsored National Seminar on Electronic Devices, Systems and Information Security (SEEDS-2015).** | **Department of Electronics & Instrumentation Technology University of Kashmir, Srinagar.** | **March 16-17 , 2015.** |
| **2015 International Conference on Advances in Computers, Commutation and Electronics Engineering (COMMUNE-2015).** | **Department of Electronics & Instrumentation Technology University of Kashmir, Srinagar.** | **March 16-18, 2015.** |
| **5th International Conference On “Recent Trends in Applied Physical, Chemical Sciences, Mathematical/Statistical and Environmental Dynamics” (PCME-2015).** | **Krishi Sanskriti” Jawaharlal Nehru University, New Delhi.** | **May, 2-3 2015.** |
| **National Conference On “Solid State Chemistry and Allied Areas”(ISCAS-2015).** | **Bhaskaracharya College of Applied Scien ces University of Delhi Delhi-110007.** | **May 8-10, 2015.** |
| **National ConferenceOn “Advances in Materials and materials Processing (AMMP-15).** | **Department of Metallurgy and Materials Engineering, NIT Srinagar.** | **May 22-23, 2015.** |
| **National Interdisciplinary Science Conference-2015 on “Recent Research Trends in Chemical & Environmental Science (NISCON-2015).** | **Sri Pratap College University of Kashmir, Srinagar.** | **August 18-19, 2015.** |
| **International Conference on Multifunctional Materials for future Applications (ICMFA 2015).** | **Department of Chemistry, IIT (Banaras Hindu University) Varanasi.** | **Oct.27 – 29, 2015.** |
|  |  | **Second International Conference on Materials Science and Technology (ICMST2016** | **Department of Physics, St. Thomas College Pala, Kerala.** | **June 5 – 8 , 2016.** |
| 2. | Dr. S. Rubab | 1. **Attended two days TEQUIP WORKSHOP on Metallurgical & Materials Engineering** 2. **Attended a 16 days Refresher Course on Materials preparation and characterization.** | **NIT Srinagar organised by NIT Srinagar and IIT Kanpur.**  **Organised jointly by Indian Academy of Science, Bengaluru, National Academy of Science of India, Allahabad, Indian National Science Academy Delhi and at IASc, Jalahalli, Bengaluru.** | **Oct 8-9, 2016**  **Feb 9-24, 2016** |
| 3. | Dr. M.A. Shah | 1. GIAN programme 2. **Int. Conf. in D.U.** 3. **Visited NPL** | **IIT Hyderabad**  **Delhi Univ.**  **Delhi** | **28/8/2016 to 4/9/2016**  **7 to 11 Nov, 2016**  **14-18 Nov 2016** |

III***. PROGRAMME CONDUCTED (CONFREENCES/COURSES/TRAININGS):***

**Dr. M.A. Shah:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.NO. | NAME OF THE PROGRAMME | DATE WHEN CONDUCTED | NAME OF COORDINATOR(S) | NO. &  BACKGROUND OF PARTICIPANTS |
| **1.** | **a) INSPIRE Programme**  **b) Int Conf on Nana tech for Better Living organized in collaboration with IIT Kanpur.** | **21-25 Nov 2015**  **25-29 May, 2016.** | **Dr. M.A. Shah** |  |

***IV. ANY OTHER ACTIVITIES/ ACHIEVEMENTS WITH DEATALS:***

1. **Dr. M. Ikram**

**Research Project:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **UGC-DAE- Consortium for Scientific Research Indore.** | Effect of Synchrotron Radiation on the Photoemission Spectroscopy (PES) Studies of Double Perovskite. | **Rs. 7.80 lacs** | **2015-2018** | **Approved for 3 years.** |

1. **Dr. S Rubab**
2. Delivered a lecture as resource person in 68th General Orientation Course at UGC-HRDC, Kashmir University on 'Light and Light Based Technologies' on 18.5.2015
3. Delivered a lecture as resource person in Refresher Course in ‘Gender Studies’ at UGC-HRDC,   Kashmir University on ' Technological needs of women' on 22.5.2015
4. Delivered a lecture as resource person in 69th General Orientation Course at UGC-HRDC, Kashmir University on 'Importance of Light In our Life' on 27.7.2015
5. Delivered a lecture on ' Developing Hands on Maths Laboratory' as resource person in short term training cum workshop in Mathematics for Govt School Teachers of Kashmir Province on 31.7.2015 at Government college of Education, MA Road.
6. Delivered a lecture on ' Developing Hands on Science culture in schools' as resource person in  training Program in Sciences for Govt School Science Teachers of Kashmir Province on 3.8.2015 at Government college of Education, MA Road.
7. Delivered a lecture on 'Developing Mathematics Activity Centres in Schools' as resource person in  awareness program organized by DIET, Anantnag for  Govt School Teachers of Mathematics of Anantnag district at Ranibagh higher secondary school Anatnag on 5.9.2015.
8. Delivered a lecture on ' Educational opportunities for Physics graduates with special reference to JAM' as resource person in awareness program organized by Department of Physics, Degree College for Boys, Khannabal, Anantnag  on 19.9.2015.
9. Conducted session on 'Developing mathematics activity centres at schools' in 3 days hands on Science workshop organized by science teachers assoc. of Kashmir at EDI Pampore catalyzed by Vigyan Prasar from 5-7 Oct 2015.
10. Evaluated Science Exhibits under INSPIRE Award scheme 2015 at DIET Srinagar on 13.10.2015
11. Delivered a lecture as resource person in 70th General Orientation Course at UGC-HRDC, Kashmir University on 'Contribution of Ibn al Haytham to Science and Scientific Methods' on 6.11.2015
12. Conducted  a session as Mentor in sixth Inspire camp on   'Fun activities in Mathematics' on 15.11.2015 at NIT Srinagar
13. Delivered a lecture "Developing Mathematics Activity Centres for Creative Learning"  on 26.11.2015 at Jammu Kashmir Institute of Mathematical Sciences, Srinagar
14. Conducted  a session   on ' Teaching Geometry with Geoboard' as resource person in  Three day teacher training programme/ workshop -'Teaching and Learning Mathematics at School Level' at Jammu & Kashmir Institute of Mathematical Sciences, Srinagar on 8 Dec 2015
15. Conducted  a session   on 'Verification of Pythagoras theorem by dissection' as resource person in  Three day teacher training programme/ workshop -'Teaching and Learning Mathematics at School Level' at Jammu & Kashmir Institute of Mathematical Sciences, Srinagar on 9 Dec 2015
16. Conducted  a session   on ' The purpose of Mathematics Laboratory' as resource person in  Three day teacher training programme/ workshop -'Teaching and Learning Mathematics at School Level' at Jammu & Kashmir Institute of Mathematical Sciences, Srinagar on 10 Dec 2015
17. Delivered a talk on 'Beti bachao- Beti Padhao' at Government Degree College, Anantnag on 8.3.2016
18. Delivered an invited talk on 'Education opportunities in nano science and nanotechnologies' at Government Degree College for Women Anantnag on 19.3.2016

**V. PURCHASE MADE:**

|  |  |  |  |
| --- | --- | --- | --- |
| S. NO. | NAME OF THE EQUIPMENT/ITEM | DATE OF PURCHASE | AMOUNT OF PURCHSE  (In Rupees) |
| 1. | UV-Visible-NIR Spectrometer with accessories | Order has been placed on 01.07.2016 | Rs.8,54786/= |
| 2. | Ultrasonic Bath (Sonicator) with required accessories. | 01.07.2016 | Rs. 41,786/= |

**4.1.11. DEPARTMENT OF CHEMISTRY**

**Head: Dr. Shakeel Ahmad Shah**

**Introduction**

The Department of Chemistry was established in 1960 and has been headed by the renowned personalities like Prof. R. P. Jeerath,, Dr. Ram Murthi, Dr. Shakti Rais Ahmad, and Dr. A. K. Choudhry. About fifteen Ph. Ds and 30 M. Phils have been produced by the Department till date. The faculty members of the Department have published many scientific papers and reviews in National and International journals of repute. Research, in the areas of Physical, Organic, Inorganic and Environmental Chemistry, are being carried out in the Department.

**Faculty**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.No.** | **Name** | **Designation** | **Qualification** | **Area of specialization** |
| 01. | Dr. S. A. Shah | Associate Professor & HOD | Ph.D | Inorganic Chemistry |
| 02. | Dr. Tabassum Ara | Associate Professor | Ph.D | Organic Chemistry |
| 03 | Dr. Kowsar Majid | Associate Professor | Ph.D | Physical Chemistry |
| 04. | Dr. J. A. Banaday | Assistant Professor | Ph.D | Organic Chemistry |
| 05. | Dr. HamidaChisti | Assistant Professor | Ph.D | Inorganic Chemistry |
|  | **Number of Faculty Members engaged on Contractual basis =** | | | |

**The Department engages the Chemistry subjects and other relevant Courses at B.Tech. level of all branches of Engineering of the Institute, in addition to Research.**

**R & D Work**

**I. Papers Published:-**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No**. | **Name of the Staff member** | **Title of the Paper** | **Conference/ Journal, etc. where Published** | **Date of Publishment** |
| 01. | Dr. S. A. Shah (Assoc. Prof) | * “Genicunolide-A, B and C: three new triterpenoids from *Euphorbia geniculata*.” * “Structural and optical studies of 7-methoxy-8-(3-metrhylbut-2-enyl)-2-chromenone (osthol), a plantbased coumarin.” * "In Vitro Screening for Anticancer Activity of Petroleum Ether and Ethyl Acetate Extracts of *Conyza canedensis* growing in Kashmir Region." | *Beilstein Journal of Organic Chemistry*  *OPTIK- International Journal for Light and Electron Optics (Elsevier)*  *Advances in Biomedicine and Pharmacy* | **2015,** *11,* 2707–2712. doi:10.3762/bjoc.11.291  **2016**, *127*, 2802–2805. http://dx.doi.org/10.1016/  j.ijleo.2015.11.224  **2015**, 2(2), 82-85 |
| 02. | Dr. Tabassum Ara (H.O.D) | * Triacetic acid lactone : A Versatile Molecule ” * “ synthesis and Biological evaluation of novel triazoles of steroidal sapogenin-Diosgenin ”, * Reactions of Indandione with DMSO-Aacetic anhydride ’ in the two day”      * Synthesis of some Barbituric acid derivatives’ in collaboration with J&K State council for Science and Technology and DST, Govt. of India. * “Synthesis of Novel 16-dehydroepiandrosterone Analogs as potent cytotoxic agents’ * Synthesis and characterization of PPY/K[Fe(CN)3(OH)(en)] nanocomposite: Study of photocatalytic, sorption, electrical, and thermal properties * .Isolation of Daphnetin 8-methyl ether from *Daphne oleoides* and its Anti-bacterial Activity * Isolation of Daphnetin from *Daphne oleoides*and its HPLC Finger Printing * Stereoselective synthesis and antimicrobial activity of novel triazolyl derivatives of sreroidal sapogenin -diosgenin " * Synthesis and characterization of PTP/K[Fe(CN)3(OH)(en)] nanocomposite: study of thermal, electrical and photocatalytic properties, | 4th National Symposium on “Recent Trends In Analytical Sciences And Applications  4th National Symposium on “Recent Trends In Analytical Sciences And Applications  National Inter-Disciplinary Science conference on “Recent Research Trends in Chemical and  Environmental Sciences  in the 11th J&K  Science Congress ,University of  Kashmir  in the 11th J&K  Science Congress ,University of  Kashmir  Journal of applied polymer science.  Journal of Phytopharmacology  *Elixir Org. Chem*  National Research scholars' Conclave National Institute of Technology , Srinagar.  [Journal of Materials Science: Materials in Electronics](http://link.springer.com/journal/10854) | 9th and 10th February **2015** in Jamia Hamdard ,New Delhi in and Abstract Book cum Souvenir page 44.  9th and 10th February **2015** in Jamia Hamdard ,New Delhi in and Abstract Book cum Souvenir page 44 and 45.  August 18 and 19th **2015 in** Sri PratapCollege Srinagar in Souvenir and Abstracts  Souvenir and Abstracts page 11,12.  12th to 14th October **2015** in Souvenir and Abstracts page 380.  12th to 14th October **2015** in Souvenir and Abstracts page 382.  February 2016  july-august, 2015; 4(4): 224-226.  february, (2016) 37992-  37994  2nd to 3rd April 2016 in the Souvenir and Abstracts page 34. |
| 03. | Dr. Kowsar Majid (Assoc. Prof) | * *Synthesis and characterization of nanocomposite of polythiophene with Na2[Fe(CN)3(OH)(NO)C6H12N4] H2O: a potent material for EMI shielding applications.* * *Removal of copper from aqueous solution using polyaniline and polyaniline/ferricyanide composite.* * *Synthesis and characterization of Li0.5Fe2.5-xGdxO4 .ferrite nano-particles as a potential candidate for microwave device applications* * *Enhanced photocatalytic activity exhibited by PTh/[Fe(CN)3(NO)(bpy)] 4H2O nanocomposite fibers via a synergistic approach.* * *Synthesis, characterization, photophysical, thermal and electrical properties of composite of polyaniline with zinc bis(8-hydroxyquinolate): a potent composite for electronic and optoelectronic use.* * *Investigation of the Transport Properties of PPy/[Co(EDTA)NH3Cl] H2O Nanocomposite Prepared by Chemical Oxidation Method* * *Synthesis and characterization of PPY/K[Fe(CN)3(OH)(en)] nanocomposite: Study of photocatalytic, sorption, electrical, and thermal properties.* | *Journal of Materials Science: Materials in Electronics*  *Journal of Environmental Chemical Engineering*  *Materials and Design*  *RSC Advances*  *RSC Advances*  *RSC Advances*  *J. of Applied Polymer Science* | *11 June 2015*  *21 September  2015*  *31 October  2015*  *11 December 2015*  *17 February 2016*  *22 February 2016*  *25 March 2016* |
| 04. | Dr. J. A. Banday (Assist. Prof) | * “Genicunolide-A, B and C: three new triterpenoids from *Euphorbia geniculata*.” * “Structural and optical studies of 7-methoxy-8-(3-metrhylbut-2-enyl)-2-chromenone (osthol), a plantbased coumarin.” * "In Vitro Screening for Anticancer Activity of Petroleum Ether and Ethyl Acetate Extracts of *Conyza canedensis* growing in Kashmir Region." | *Beilstein Journal of Organic Chemistry*  *OPTIK- International Journal for Light and Electron Optics (Elsevier)*  *Advances in Biomedicine and Pharmacy* | **2015,** *11,* 2707–2712. doi:10.3762/bjoc.11.291  **2016**, *127*, 2802–2805. http://dx.doi.org/10.1016/  j.ijleo.2015.11.224  **2015**, 2(2), 82-85 |
| 05. | Dr. Hamida Chishti (Assist. Prof) | * Quantitative analysis of the essential oil of Origanum vulgare (L) growing in the Kashmir valley | **International Journal of Applied Research** | 2016 |

**II- Programmes Attended (Conferences/ Courses/ Trainings):**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No**. | **Name of the Staff member** | **Name of the Programme Attended** | **Institute Where Attended** | **Date** |
| 01. | Dr. Hamida Chishti (Assist. Prof) | * Two Days Workshop on Analytical laboratory Techniques: Applications and future Prospects | Department of Chemistry, Islamia College of Science and Commerce | February 16-17, 2016 |

**III. Any Other Activity/Achievement with details**

|  |  |  |
| --- | --- | --- |
| **S. No**. | **Name of the Staff member** | **Activity / Achievement** |
| 01. | Dr. Sakeel Ahmad Shah (Assoc. Prof) | - |
| 02. | Dr. Tabassum Ara (H.O.D) | - |
| 03. | Dr. Kowsar Majid (Assoc. Prof) | - |
| 04. | Dr. Javid Ah. Banday (Assist. Prof) | * Acted as Vice Chancellor's Nominee in Board of Studies (BOS) for revising the Under Graduate Courses in the subject of Chemistry at Islamia College of Science and Commerce Srinagar. * acted as a Member in Board of Studies (BOS) for revising the Under Graduate Courses in the subject of Industrial Chemistry at University of Kashmir Srinagar. |
| 05. | Dr. Hamida Chishti (Assist. Prof) | - |

**4.1.12. DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES**

**Head: Mir Mukhtar Ahmad**

**Introduction**

**INTRODUCTION**

**1.0. Education System**

The Department of Humanities and Social Sciences, which is one of the oldest departments of the institute, is contributing to the academics by offering various courses in English, Management, Economics and Entrepreneurship at B.Tech level and Research Methodology and Communication Skills at M.Tech level. The students of B. Tech & M. Tech are introduced to the basic concepts and advanced studies in the above mentioned subjects. As these courses equip the engineering students with the professional skills, the department makes every effort to keep these courses updated. It tries to amalgamate the field of engineering and the field of management by equipping students with the technical expertise and leadership skills as are required to advance their career in the fast-paced world of competition.

The subjects like Management and Economics play an excellent role in developing the managerial and professional capabilities of the students who have a potential market both in public and private companies of India and foreign countries. The courses are intended to enhance their employment opportunities in the growing corporate sector and  bring together the technological problem-solving savvy of engineering and the organizational, administrative, and planning abilities of management in order to oversee complex enterprises from conception to completion. Apart from it, the Department has many programs of higher learning in mind but the non availability of staff is the main impediment. For some professional courses like MBA and Diploma in Entrepreneurship, the department is making efforts both in terms of staff and infrastructure. The department is also planning to arrange some guest lecturers for the personality development of the students as per their demand. The department aims to promote student success in the Core Curriculum through advisement, support, and enrichment programs.

The Department has already submitted a proposal for the establishment of a Language and a Management Lab for improving the linguistic proficiency and the managerial skills of the students in general and academically weak, SC/ST & backward students in particular. Due to the continuing problem of space, the development of Language and Management lab could not be taken up. However, forty computers have been provided by the institute for the same which shall be installed once the infrastructure for the lab is ready.

**2.0 STAFF**

Due to retirement of senior staff, department is left with very limited faculty. Additional requirement of teachers is being met by contractual appointment presently and efforts are on to recruit permanent faculty at the earliest.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.N** | **Name of staff member** | **Designation** | **Qualification** | **Specialization** |
| 1. | Dr Mohammad Farooq Lala | Professor | B.Sc  MBA  Ph.D | Finance & Marketing |
| 2. | Mr. Mir Mukhtar Ahmad | Associate Professor | B.Com  M.Com  L.L.B | Marketing &  Economics |
| 3 | Prof. Khursheed Mahajan | Guest Faculty  (Spring Semester) | M.Com | Finance &  Accounting |
| 4 | Dr. Tasleem Warr | Guest Faculty  (Spring Semester) | MA  Ph.D | English |
| 5 | Dr. Suheela Nazir | Contractual Lecturer  (Autumn Spring) | MA  M.Phil | English |
| 6 | Mr. Rafiq Ahmad Guroo | Contractual Lecturer  (Autumn Spring) | MA  M.Phil | English |

**3.0. TEACHING PROGRAMMES**

**Courses offered**

The Department is offering courses to all branches of B.Tech students and one course to M.Tech students. Various subjects taught along with LTP is given hereunder.

|  |  |  |  |
| --- | --- | --- | --- |
| **Semester** | **Name of the Subject** | **LTP**  **Th/Pract.** | **Exam Hrs Per week** |
| Ist Semester  All Branches | Communication Skills & Oral Presentation | 4 0 0 | 4 Periods  Per Section |
| 2nd Semester | Introduction to Social Sciences | 3 0 0 | 3 Periods  Per Section |
| 3rd (Civil) | Industrial Economics & Management | 3 0 0 | 3 Periods  Per Section |
| 3rd (Electronics) | Communication Skills & Functional English | 3 0 0 | 3 Periods  Per Section |
| 4th (Chemical) | Industrial Organization & Management | 3 0 0 | 3 Periods  Per Section |
| 4th (Metallurgy) | Industrial Economics & Management | 3 0 0 | 3 Periods  Per Section |
| 6th (Mechanical) | Industrial Economics & Management | 3 0 0 | 3 Periods  Per Section |
| 7th (Mechanical) | Entrepreneurship | 3 0 0 | 3 Periods  Per Section |
| 8th (Electronics) | Industrial Organization & Management | 3 0 0 | 3 Periods  Per Section |
| 8th (Electrical) | Industrial Organization & Management | 3 0 0 | 3 Periods  Per Section |
| 8th (Metallurgy) | Entrepreneurship Development Programme | 3 0 0 | 3 Periods  Per Section |
| M. Tech  (2nd Semester) | Communication Skills & Research Methodology | 2 0 0 | 2 Periods  Per Section |

**4.0. Research Activity**

Research has been recognized as a core activity of our department and in this regard the department offers the doctoral research programme, in which presently two scholars are enrolled and are working under the supervision of Prof. M.F. Lala.

**5.0. Remedial Coaching Classes**

These classes are signed to assist students in order to achieve expected competencies in academic and communication skills and raise their level of comprehension of basic subjects to provide a stronger foundation for further academic work, where quantitative and qualitative techniques and laboratory activities are involved and the medium of instruction is English. This is particularly being provided to the academically weak, backward, ST/SC students who come from Hindi and Urdu medium and are not able to understand English. It also aims to provide the necessary guidance and training that may enable the students to come up to the level necessary for pursuing higher studies efficiently and prepare for competitive exams.

**4.2. CENTRES**

**4.2.1. WATER RESOURCES MANAGEMENT CENTRE**

**Head of the Centre: Prof. M. A. LONE**

**1. Introduction**

WRMC was established by the Ministry of Education, Govt .of India in 1983 under new plan scheme for creation of infrastructure in the areas of emerging technology. The objectives of the Center are:

i. To undertake work on specific technological problems of relevance and importance in Water Resources Management and to make fundamental contribution to the advancement of technology.

ii. To undertake Research and Development work of a high order by mobilizing inter- disciplinary and inter- institutional collaboration.

iii. To act as a resource center for the creation of knowledge and for the collection and dissemination of Information on the subject .

iv. To undertake research works in the field of Water Resources Engineering to meet the requirements of industry, Research and Development establishments, irrigation and other water resources management agencies.

1. **Facilities Available:**

**i) Library Facilities:**

Fair amount of literature on topics related to Water Resources Engineering and other related topics is available in the main library of the Institute. Besides that a good collection of books, joumals ard reports is available in the library of Water Resources Management Centre.

**ii) Computational facilities:**

The Centre has also a Mini-computer Centre with necessary computational facilities.

1. **Laboratory Facilities:**

*Hydraulics/Fluid Mechanics Lab.*

Hydraulics /Fluid Mechanics laboratory which has been brought up to the higher standards of research and development is not only catering the requirements of the Centre but also meets the requirements of departments of Civil Engineering and Mechanical Engineering. It has got almost all necessary equipment and is being modernised with the latest equipments/instruments.

*Hydrobiology lab:*

This Lab. is being set up under the approval of the MHRD and is at the verge of its completion. The lab. after its completion will be fully equipped with the latest water and sewage testing equipments.

*Hydrometeorological Observatory:*

This observatory has also been set –up under one more scheme of MHRD and has a facility of recording all the important Hydro-meteorological parameters.

**Research And Development Activities**

A Chair Professor in Water Resources , entitled, Sheikhul Alam Sheikh Nuruddin Chair for Water Resources , has been established by the Ministry of Water Resources (MoWR) in the Centre under an agreement between the MoWR and the Institute, in 2008.

The main objective of the Chair is to carry out studies on water resources with special emphasis on assessment of effect of climate change on it and adaptation strategies in respect of planning, design and management of water resources systems of particularly Indus Basin. An important activity related to the Chair is the transfer of technology to CWC and other organizations of MOWR/GOI. Appointment of the Chair Professor was advertised but the selected person did not join and has been re-advertised.

**Future Plans**

The Centre has been nominated to act as Nodal Centre for Basin-wise studies with respect to impact of climate change on Water Resources by the MoWR , and is planning to activity participate in the study with other leading Institutes.

The Centre is planning to upgrade its Hydro-meteorological Observatory with the latest available equipments and instrumentation so that the data collection is more authentic and accurate.

**4.2.2. MAINTENANCE ENGINEERING CENTRE**

**Head of the Centre: Prof. I.K. Pandita**

**Introduction**

Maintenance Engineering Centre was originally set up during the years 1988 and 1989 in the former Regional Engineering College, Srinagar, (now National Institute of Technology, Srinagar) under Indo – Italian Friendship Program.

1. **Technical fields covered**

Existing equipment was purchased according to a survey performed in the mid ‘80ies, which considered modernization of the industrial and tourist infrastructure.

In particular, reference activities concerned: production of ironmongery parts, automation and packaging of fruit and vegetable products, automation of canning and bottling in the food-farming industry, maintenance of ropeways and ski-lifts for ski resorts, maintenance and improvement of silk looms, woodworking machinery, brick production machinery, general road transportation. Moreover, general mechanical maintenance capabilities were to be improved, with reference to local needs in mechanical construction: this put forward consideration of welding technologies and non-destructive testing. The following fields were selected for development:

1. Wear and Lubrication
2. Noise and Vibration
3. Non – destructive Testing
4. Welding and Plasma coating
5. Data acquisition and elaboration
6. **Facilities Presently Available:**

Keeping in view the above selected fields, following facilities are presently available in the centre:

1. CP30D Programmable Logic Controller.
2. MIG welding equipment - one set.
3. TIG welding equipment - one set.
4. Arc welding equipment – 2 sets.
5. Ultrasonic (Gildran MG12) flaw detector with automatic monitor.
6. Wear testing machine pin ring.
7. Wear testing machine pin disk.
8. Automatic Hardness meter.
9. Pneumatic control model fitted with electrical control.
10. Pneumatic control with double acting cylinders..
11. Pneumatic control fitted with sel1, sel2 and sel3.
12. H128D Water/ Oil Multi Pumps Test Bench.

These facilities are ready for imparting training to students and field engineers as well as doing consultancy, research and development work.

1. **Activities during the reporting year**

In view of the shortage of the staff the activities of the Centre remained limited to the Dissertation work of the M.Tech Students. However efforts are being made to make the staff available for taking the full advantage of the facilities developed.

**4.2.3. COMPUTER SERVICES CENTRE**

**Head of the Centre: Dr. Roohi Naaz Mir**

The institution has long back absorbed itself into the Computer culture and its effects can be well perceived in all over the campus. The Computer Services Centre developed under the scheme of Centre of Excellence aims to provide centralized computer/Inter-net work facilities to the teaching community, students including scholars, administrative staff and others. It has been providing latest and sophisticated computer service to all the departments and the sections.

All the Institute departments, sections and hostels are connected vide a campus wide network which covers almost all the Institute. At present Institute has two links one is 512 Kbps provided by Ernet India and other by BSNL (1Gbps internet connectivity).

The Centre has extended the facilities of internet to hostels including girls hostels through WiFi systems.

The Centre also manages the Website of the Institute under the NITSRI, URL address [www.nitsri.ac.in](http://www.nitsri.ac.in). The Centre during the period under report augmented the Computer Centre by purchase of 50 Desktops of latest configuration and other equipments for around Rs. 28.00 lacs for use of the students.

**4.2.4 Central Research Facilities Centre**

**Head of the Centre: Prof. M. F. Wani, Professor, Mechanical Engg. Dept.**

This Centre has been established with a vision to provide high end state of the art equipments like SEM, XRD, EDX etc. at the centralized place and to cater to research requirement of multi disciplinary nature. The centre has already made the SEM apparatus functional for use by the faculty and the research scholars. The purchase of equipments like XRD, EDX are in final stage of procurement. The Centre is run under the supervision of faculty group derived from different departments of the institute.

**4.2.5 Innovation, Incubation and Entrepreneurship Development Centre :**

**Head of the Centre: Er. Saad Pervaiz, Associate Professor, Dept. of Mechanical Engineeirng**

The Institute had since long established an Industry Institute Interaction Cell and Entrepreneurship Cell. The main object of these Cells was to share its experience with the Industry and to utilize the human resources and all other resources available at the Institute effectively with the assistance of participating Industries.

In view of the prevailing scenario for encouraging innovation and enterprise, it was decided to establish a centre where activities related to innovation, incubation and entrepreneurship could be undertaken in a coordinated manner on modern approaches. Accordinlgy these two cells were merged and renamed centre under the title “ Innovation, Incubation and Entrepreneurship Development Centre” was established due approval of the Competent Authority.The Centre has already started extending its technical support to young Innovators and has held number of interactions with the local industrialists. The Centre is in the process of preparation of a DPR for establishing a major innovation centre for the benefit of the region.

An advisory committee has been constituted having an Interdisciplinary representation to guide the activities of the Centre.

**5.0. STUDENT WELFARE**

* 1. **Concessions provided to students**

The SC/ST students are provided concessions in tuition fee as per Government of India Guidelines.

**5.2 Scholarships**

The Institute has been providing all sorts of financial assistance in terms of scholarships and aids to the deserving admitted students. Students admitted under reserved categories having the good academic record are eligible for post matric scholarship. Physically handicapped Students are eligible for national Scholarship on the basis of their academic performance.

The Institute offers merit scholarship to about 25% of the students based on the performance of their 1st semester examination.

Besides above MOMA scholarships are also available for the meritorious students. The Institute also provides aid from students welfare fund to those of the students who are economically in adverse condition and not covered by other scholarships.

Various scholarships availed by the students of the institute are as under:

|  |  |
| --- | --- |
| 1 | Ph.D. Scholarships |
| 2. | M. Tech (GATE) Scholarship |
| 3. | Aid from Students Welfare Fund |
| 4. | Post Matric Scholarship |
| 5. | H & W Scholarship |
| 6. | Merit/Merit-cum means Scholarship (MOMA) |
| 7. | S.T. Scholarships |
| 8. | S.C. Scholarship |
| 9. | Scholarships of Social Welfare Departments of different states and other agencies |
| 10 | Directorate of Technical Education, Chattisgarh scholarship |
| 11 | Labour Commissioner J&K scholarships |

**5.3 Welfare Schemes for staff :**

I) Benevolent Fund : 62 staff members from non-teaching staff of the institute benefited from this fund who had suffered due to the devastating floods of September 2014 and some on account of chronic diseases.

II) Staff welfare fund : 12 staff members from non-teaching staff of the Institute were provided loan free of interest out of this fund to meet some special situations limited to an amount of Rs. 10,000/-per head, recoverable in 20 installments.

The funds under these two schemes are based on contributions made by the Institute staff towards these funds as well as some contribution out of the revenue generated through consultancies. The two funds are managed by duly constituted governing body and committee as per well laid down bylaws.

**6.0. CENTRALIZED SERVICES**

The Institute has a number of Centralised Services which facilitate the carrying out of various activities of the students and the staff effectively. A brief description of these facilities is given below**:**

**6.1. TRAINING AND PLACEMENTS**

The industrial training and placement are the two important issues of the students which are being taken care of by a well established ‘Training and Placement’ (T &P) Department of the Institute. The T & P Department is usually headed by a Senior faculty member and assisted by some administrative staff and the student representatives from the different departments.

The students have to essentially undergo a practical training period of six to eight weeks at 5th/7th semester level in projects and industry within or outside the state in Jan-Feb each year, when the Institute observes winter vacations. This training plays a vital role in exposing the students to actual industrial environment and in broadening their professional outlook. Thus, this training increases the employability opportunities of the students.

The T & P Department is making every effort to introduce the Institute to more and more companies and organisations concerned for better placement of the students. The Institute has been able to attract a good number of relevant reputed companies and organisations for on campus selection of the students. Mock tests, counselling and seminars are carried out for the students to train them for better performance in their interviews for placements. The endeavour of the T&P Department is to attain cent percent placement. Students from different departments are also involved in various relevant activities of the Training and Placement like quizs, mock tests ,mock group discussions etc.

The details of the students of the institute placed in different organizations during the year are given in the following table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name Of Student Placed** | **Company Name** | **Date Of Selection** | **Package(CTC)** | **Mode Of Placement** |
| AADESH SRIVASTAVA | Greyb | 10/9/2015 | 4.36 LPA\* | Campus |
| AADIL HUSSAIN TELI | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| AAKASH | Alstom Transport | 21/9/2015 | 5.00 LPA | Campus |
| AAKASH | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| AAQIB AHMAD SOFI | Infogain | 21/8/2015 | 4.20 LPA | Campus |
| ABHAY KUMAR | Alstom Transport | 21/9/2015 | 5.00 LPA | Campus |
| ABHAY KUMAR | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ABHAY SHARMA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| ABHIJEET SINGH | ABB | 3/11/2015 | 5.00 LPA | Campus |
| ABHIMANYU KAKKAR | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| ABHIMANYU KAKKAR | Valforma | 2/8/2015 | 2.95 LPA | Campus |
| ABHINAV DIXIT | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| ABHINAV GUPTA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| ABHINAV GUPTA | SKF | 28/10/2015 | 4.25 LPA | Campus |
| ABHISHEK LAWANIA | Pompeii Connect | 27/4/2016 | 3.05 LPA | Campus |
| ABHISHEK SONKAR | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ADEEL MASOODI | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| ADITYA GUPTA | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ADITYA MAHAJAN | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| AISHWARYA | Alstom Transport | 21/9/2015 | 5.00 LPA | Campus |
| AISHWARYA DATT | Valforma | 2/8/2015 | 2.95 LPA | Campus |
| AISHWARYUMESH | Infogain | 21/8/2015 | 4.20 LPA | Campus |
| AJAY UPADHYAY | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| AKASH TALREJA | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| AKHILESHWAR SAMBYAL | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| AKSHAY DWIVEDI | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| AKSHAY KUMAR | Yodlee | 1/10/2015 | 8.75 LPA | Pool Campus |
| AKSHIT KOUL | Intellect Design Arena | 26/8/2015 | 5.00 LPA | Campus |
| AKSHIT KOUL | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ALAF AZAM KHAN | Infogain | 21/8/2015 | 4.20 LPA | Campus |
| ALAF AZAM KHAN | Yodlee | 1/10/2015 | 8.75 LPA | Pool Campus |
| AMAN GUPTA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| AMAN SHARMA | Pompeii Connect | 27/4/2016 | 3.05 LPA | Campus |
| AMANJOT SINGH | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| AMAR AGRAHARI | Infogain | 21/8/2015 | 4.20 LPA | Campus |
| AMIT RANJAN | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| ANAMIKA CHAKRABARTY | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ANAMIKA CHAKRABARTY | BLUE STAR | 6/3/2016 | 4.50 LPA | Campus |
| ANAV GUPTA | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ANISH CHOUDHARY | Infogain | 21/8/2015 | 4.20 LPA | Campus |
| ANKIT KUMAR | Tata Motors | 16/9/2015 | 6.15 LPA | Campus |
| ANKIT SRIVASTAV | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ANKIT SRIVASTAV | ABB | 4/11/2015 | 5.00 pa | Campus |
| ANSHU JAIN | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| ANUBHAV RAI | Intellect Design Arena | 26/8/2015 | 5.00 LPA | Campus |
| ANUBHAV RAI | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ANUJ GUPTA | FCS-Teksystem | 17/8/2015 | 6.00 LPA | Pool Campus |
| ANUJ GUPTA | Valforma | 2/8/2015 | 2.95 LPA | Campus |
| ANUJ GUPTA | Yodlee | 1/10/2015 | 8.75 LPA | Pool Campus |
| ANUVESH KOTHARI | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| APARAJITA TIWARI | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| APARNA RAI | Intellect Design Arena | 26/8/2015 | 5.00 LPA | Campus |
| APARNA RAI | Valforma | 2/8/2015 | 2.95 LPA | Campus |
| ARCHIT DUBEY | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ARGHO JYOTI DAS | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| ARPIT KUMAR NARULA | Maruti | 29/9/2015 | 6.00 LPA | Campus |
| ARVIND YADAV | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| ARVVIND CHAUHAN | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| ASHISH | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| ASHISH CHANDER | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| ASHUTOSH SINGH | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| ASTEEK CHAUHAN | Maruti | 29/9/2015 | 6.00 LPA | Campus |
| ASTEEK CHAUHAN | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| AVICHAL GUPTA | Maruti | 28/9/2015 | 6.00 LPA | Campus |
| AVINASH NEGI | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| AVINASH NEGI | BLUE STAR | 4/3/2016 | 4.50 LPA | Campus |
| AVNI SINGH | DESL | 1/3/2016 | 3.80 LPA | Campus |
| AYUSH GOYAL | AAKASH INSTITUTE | 6/1/2016 | 5.60 LPA | OffCampus |
| AYUSH KARNA | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| AYUSH KUMAR | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| AYUSHMAAN SHARMA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| BRIJ BHUSAN KHAJURIA | Infogain | 21/8/2015 | 4.20 LPA | Campus |
| BRIJ BHUSAN KHAJURIA | Samsung R&D | 30/4/2016 | 10.0 LPA | OffCampus |
| CHANDRA KANT CHAUHAN | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| CHIRAG GUPTA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| DEVESH KAHI | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| DHARMENDRA SINGH | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| DINESH SAINI | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| FAROOQ AH WANI | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| FAYAZ AHMAD | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| GAJANAND GUPTA | Pompeii Connect | 27/4/2016 | 3.05 LPA | Campus |
| GAURAV SAINGER | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| GAURAV SHALOTRA | SKF | 28/10/2015 | 4.25 LPA | Campus |
| GIRISH KUMAR | AAKASH INSTITUTE | 5/1/2016 | 5.60 LPA | OffCampus |
| GOPENDRA MOHAN | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| GULSHAN KUMAR | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| GULSHAN KUMAR | SAP labs | 8/11/2015 | 9.00 LPA | Pool Campus |
| HARSH DEEP SINGH JASROTIYA | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| HARSH PRASAD | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| HARSH PRASAD | STERLITE | 11/30/2015 | 4.50 LPA | Campus |
| HEMANSHI SARANGAL | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| HIMANI RAINA | SEGACIOUS RESEARCH | 15/5/2016 | 4.80 LPA | Campus |
| HIMANSHU GUPTA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| HITESH KUMAR MEENA | Pompeii Connect | 27/4/2016 | 3.05 LPA | Campus |
| HRISHABH GOKHRU | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| IDREES AMAD WANI | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| IESHITA CHOUDHARY | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ISHFAQ AHMAD NAJAR | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| JASWINDER SINGH | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| KAJAL CHAUCHAN | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| KANISH JAIN | Valforma | 2/8/2015 | 2.95 LPA | Campus |
| KANISHKA DHAR | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| KETAN KUMAR | Intellect Design Arena | 26/8/2015 | 5.00 LPA | Campus |
| KIRTY BHUSHAN | Infogain | 21/8/2015 | 4.20 LPA | Campus |
| KULJINDER PAL SINGH | Alstom Transport | 21/9/2015 | 5.00 LPA | Campus |
| KUNAL RAI | Intellect Design Arena | 26/8/2015 | 5.00 LPA | Campus |
| LALIT KUMAR | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| LOKESH KUMAR BAIRWA | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| MANAN BHATT | Alstom Transport | 21/9/2015 | 5.00 LPA | Campus |
| MANOJ CHOROTIYA | Pompeii Connect | 27/4/2016 | 3.05 LPA | Campus |
| MARTAND PRATAP SINGH | STERLITE | 11/30/2015 | 4.5 LPA | Campus |
| MAYANK SHARMA | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| MAYANK SHARMA | BLUE STAR | 3/3/2016 | 4.50 LPA | Campus |
| MAYUR AGARWAL | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| MEENU | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| MEHREEN JABEEN | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| MEHWISH SHAH | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| MIR ATIF | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| MOHAMMAD BHAT | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| MOHAMMAD YUNUS | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| MOHIT | Maruti | 28/9/2015 | 6.00 LPA | Campus |
| MOHIT BHAT | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| MOHIT KUMAR | Pompeii Connect | 27/4/2016 | 3.05 LPA | Campus |
| MOHIT SAHARAN | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| MOHIT SAXENA | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| MUDITA SINGH | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| MURLI KRISHAN BAIRAGI | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| NAJMMU SHORA | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| NASIR BASHIR | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| NEERAJ BAPORIYA | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| NEETU SINGH | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| NEHA KUMARI | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| NIKHIL GUPTA | Tata Motors | 16/9/2015 | 6.15 LPA | Campus |
| NIRBHAY SINGH SHEKHAWAT | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| NIVRANSHU HANS | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| OMAIS SHAFI PANDITH | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| OMKAR WAGHMARE | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| OMKAR WAGHMARE | Tata Motors | 16/9/2015 | 6.15 LPA | Campus |
| PARMENDER CHAHAL | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| POBAN KUMAR NEWAR | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| PRABHAT DAYAL | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| PRADEEP KUMAR MISHRA | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| PRANTIK BISWAS | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| PRASHANT KUMAR | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| PRASHANT LAVANIA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| PRATEEK PAGARIA | Intellect Design Arena | 26/8/2015 | 5.00 LPA | Campus |
| PRATIBHU PRASHAR | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| PRATIK SINHA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| PRAVEEN SAH | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| PRITHVI PATIL | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| RAGHAV KHAJURIA | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| RAHUL BHARDWAJ | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| RAHUL GUPTA | Tata Motors | 16/9/2015 | 6.15 LPA | Campus |
| RAHUL JIJ | Infogain | 21/8/2015 | 4.20 LPA | Campus |
| RAHUL KUMAR | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| RAHUL PANDEY | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| RAHUL PANWAR | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| RAHULGOEL | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| RAJAT BHARADWAJ | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| RAJAT SHARMA | Tata Motors | 16/9/2015 | 6.15 LPA | Campus |
| RAJAT SRIVASTAVA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| RAJU ANDOTRA | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| RAKESH KUMAR | BCloud | 9/9/2015 | 6.25 LPA | OffCampus |
| RAKESH KUMAR | Yodlee | 1/10/2015 | 5.75 LPA | Pool Campus |
| RAMESH KUMAR | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| RAMKARAN YADAV | Infogain | 21/8/2015 | 4.20 LPA | Campus |
| RANJEET SINGH | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| RASHIQ MALIK | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| RATNESH OJHA | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| RAVI KUMAR | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| RAVI KUMAR | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| RIDHANSH PRASHER | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| RISHABH GARG | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| RISHABH TIKOO | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| RITVIK TIWARI | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ROHAN DUSSA | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ROHIT MANHAS | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| ROHIT RANJAN VERMA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| ROHIT RANJAN VERMA | Yodlee | 1/10/2015 | 5.75 LPA | Pool Campus |
| ROHIT RAVI | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ROHITAS KUMAR | Maruti | 28/9/2015 | 6.00 LPA | Campus |
| RUDHAN SHARMA | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| SACHIN VERMA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| SAMEER JHA | BLUE STAR | 5/3/2016 | 4.50 LPA | Campus |
| SAMEER KUMAR | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| SAMEER KUMAR JHA | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| SAMPADHA | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| SANA MAHAJAN | Intellect Design Arena | 26/8/2015 | 5.00 LPA | Campus |
| SANA MAHAJAN | Valforma | 2/8/2015 | 2.95 LPA | Campus |
| SANA MAHAJAN | Yodlee | 1/10/2015 | 5.70 LPA | Pool Campus |
| SANDEEP KUMAR | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| SANDEEP KUMAR SINGH | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| SANJEEV KUMAR | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| SARTHAK AGARWAL | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| SARVESH LANGER | Alstom Transport | 21/9/2015 | 5.00 LPA | Campus |
| SARVESH LANGER | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| SATYAJEET OMKAR | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| SATYAM SHARMA | Alstom Transport | 21/9/2015 | 5.00 LPA | Campus |
| SAUMYA SHARMA | Valforma | 2/8/2015 | 2.95 LPA | Campus |
| SAURABH SINGH | AAKASH INSTITUTE | 15/12/2015 | 5.60 LPA | OffCampus |
| SHADAB AHMAD GHANI | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| SHADAB AHMAD GHANI | Tata Motors | 16/9/2015 | 6.15 LPA | Campus |
| SHAIPHALI MAHAJAN | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| SHARAZ AHMAD MALIK | Alstom Transport | 21/9/2015 | 5.00 LPA | Campus |
| SHIVAM SHEKHAVAT | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| SHIVANI KUMARI | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| SHIVENDRA SINGH | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| SHOAIB BAZAZ | Maruti | 28/9/2015 | 6.00 LPA | Campus |
| SHREYA GUPTA | Intellect Design Arena | 26/8/2015 | 5.00 LPA | Campus |
| SHUBHAM CHOUDHARY | Tata Motors | 16/9/2015 | 6.15 LPA | Campus |
| SHUBHAM DWIVEDI | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| SHUBHAM GOYAL | Infogain | 21/8/2015 | 4.20 LPA | Campus |
| SHUBHAM GOYAL | Yodlee | 1/10/2015 | 5.75 LPA | Pool Campus |
| SHUBHAM MITTAL | Alstom Transport | 21/9/2015 | 5.00 LPA | Campus |
| SHUBHANG SHARMA | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| SIBGAT ALLAH BHAT | Infogain | 21/8/2015 | 4.20 LPA | Campus |
| SIDDHARTH VYAS | Maruti | 29/9/2015 | 6.00 LPA | Campus |
| SIDDHARTH VYAS | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| SONALI PARGAL | Alstom Transport | 21/9/2015 | 5.00 LPA | Campus |
| SUBHODEEP SINGH GAHLOT | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| SUCHINDER SINGH | Fiat Chrysler Automobiles | 26/11/2015 | 4.25 LPA | OffCampus |
| SUDHEER KUMAR RANA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| SUKHNEEK SINGH | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| SUNNY KOUNDAL | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| SURAJ MISHRA | Alstom Transport | 21/9/2015 | 5.00 LPA | Campus |
| SURBHI PARGAL | Alstom Transport | 21/9/2015 | 5.00 LPA | Campus |
| SWYAM GUPTA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| SYED KASHIF | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| SYED MUJADID MUZAMIL | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| TAKSH JYOTI | Greyb | 10/9/2015 | 4.36 LPA | Campus |
| TANUSHREE | Intellect Design Arena | 26/8/2015 | 5.00 LPA | Campus |
| TANUSHREE | Yodlee | 1/10/2015 | 5.75 LPA | Pool Campus |
| TANVEER AHMAD | Tata Motors | 16/9/2015 | 6.15 LPA | Campus |
| TARIQ BASHIR | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| TARUN KUMAR DUBEY | FCS-Teksystem | 17/8/2015 | 6.00 LPA | Pool Campus |
| TARUN KUMAR SINGH | Maruti | 29/9/2015 | 6.00 LPA | Campus |
| TARUN KUMAR SINGH | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| TARUNPAL SINGH | Maruti | 29/9/2015 | 6.00 LPA | Campus |
| TARUNPAL SINGH | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| TEJENDER SINGH SISODIYA | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| TINU RAJA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| UMANG AGARWAL | Intellect Design Arena | 26/8/2015 | 5.00 LPA | Campus |
| UMANG BHATIA | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| UMAR MANZOOR | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| UMESH KESARI | ASIAN PAINTS | 30/10/2015 | 4.50 LPA | OffCampus |
| VAIBHAV SINGH | FCS-Teksystem | 17/8/2015 | 6.00 LPA | Pool Campus |
| VAISHALI KASHYAP | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| VARUN DHIMAN | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| VARUN DHIMAN | Valforma | 2/8/2015 | 2.95 LPA | Campus |
| VIDIT VAIBHAV | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| VIKAS KUMAR SINGH | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| VIKRAM CHAUHAN | AFCONS INFRA | 15/3/2016 | 4.80 LPA | Pool Campus |
| VIMAL SINGH | AFCONS INFRA | 14/3/2016 | 4.80 LPA | Pool Campus |
| VINAYAK WAZIR | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| VIRAG JAIN | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| VISHAL CHAUDHARY | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| VISHAL GUPTA | Intellect Design Arena | 26/8/2015 | 5.00 LPA | Campus |
| VISHAL SHARMA | Tata Motors | 16/9/2015 | 6.15 LPA | Campus |
| VISHAL SINGH | Maruti | 29/9/2015 | 6.00 LPA | Campus |
| VISHWAJEET SINGH | Infogain | 21/8/2015 | 4.20 LPA | Campus |
| VIVEK VIKRAM SINGH | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| WASEEM AKRAM | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| WASEEM ANJUM | Pompeii Connect | 4/27/2016 | 3.05 LPA | Campus |
| WASEEM BASHIR SHAH | Alstom Transport | 21/9/2015 | 5.00 LPA | Campus |
| WASEEM BASHIR SHAH | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| YASH ANAND | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| YASH ANAND | Valforma | 2/8/2015 | 2.95 LPA | Campus |
| YASH ANAND | STERLITE | 12/1/2015 | 4.50 LPA | Campus |
| YOGESH KUMAR | Infosys | 12/10/2015 | 3.25 LPA | Campus |
| ZAHID BHAT | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ZARQA NAQUIB | MuSigma | 10/9/2015 | 7.00 LPA | Campus |
| ZEESHAN ALI | Tata Consultancy Services | 23/8/2015 | 3.33 LPA | Campus |
| ZULKIFIL | STERLITE | 12/2/2015 | 4.50 LPA | Campus |

\*Rs. Lacs per annum

**6.2. CENTRAL LIBRARY**

The Institute has a Central Library named Library & information Resources Centre to cater to the needs of students, ,faculty, supporting staff and research scholars. The Central library has a separate section for SC/ST students with a stock of about 9898 books issued to them for study in a full semester.

**Resources.** The library which had suffered huge losses due to September 2014 floods took number of steps for making up the losses and books worth around 30 lacs were purchased and a massive renovation is going on.

At present the readers have access to library OPAC and circular section is computerized. Following e-resourcers through INDEST consortium are available online through the Library for the benefit of community in the campus;

**Electronic Resources** **URL**

**ASCE Journals online** [**www.pubs.asce.org/journals/jrns.html**](http://www.pubs.asce.org/journals/jrns.html)

**ASME Journals online** [**www.asme.org/pubs/journals**](http://www.asme.org/pubs/journals)

**IEL online http/ieeexplore.ieee.org**

**India standards internet version**

**Nature** [**www.nature.com**](http://www.nature.com)

**Pro quest science http/www.il.proquest.com/pqdauto**

**Springer verlag** [**www.springlerlink.com**](http://www.springlerlink.com)

**JCCC http/jccc.indest.informindia.co.in**

The library is also connected to IGNOU Educational Programmers through Dish antenna. The students are making use of these educational programmes.

**In addition the library offers the following services:-**

1. **Video view facility**
2. **CAS & SDI services**
3. **Reprographic services**.

**Library Timing.**

9.00 a.m. to 9.00 p.m ( During Summer)

9.00 a.m. to 8.00 p.m (During Winter)

**Services to SC/ST students.**

The library has got good collection of some ten thousand books separately meant for SC/ST students. Separate section is maintained for acquisition and processing their material. The books ate issued to the students for one semester. The aim is to help this weaker section of the society.

**6.3 Planning & Development Wing**

The Planning & Development Wing of this Institute is responsible for executing the maintenance works up to tune of Rs.60.00 Lacs & rest major works are being executed CPWD. The following listed works have been executed by P & D Wing during 2015-2016

|  |  |  |
| --- | --- | --- |
| S.No. | Name of work | Total Expenditure |
| 1 | Electrification of Heat Transfer Lab of Mechanical Engg. Lab. | Rs. 2,79,636/- |
| 2. | Electrification of Refrigeration and Air Conditioning Lab. Of Mechanical Engg. | Rs. 2,93,790/- |
| 3. | Renovation of Director’s office and committee Room | Rs.23.67,251/- |
| 4. | Renovation of Mechanical Engineering Lab. | Rs. 7,54,106/- |
| 5. | Improvement of damaged road by way of laying GCB, Metalling, 50mm thick macadam | Rs. 36,45,674/- |
| 6. | Renovation of Academic section by fabrication of cupboards & computer tables. | Rs.  3,83,735 |
| 7. | Electrification of seminar Room of computer science Engineering Deptt.(I.T.) | Rs.3,69,144/- |
| 8. | Renovation of Gypsy Shed for use of Foundary section. (Electrical Part) | Rs.1,38,625/- |
| 9. | Renovation of Soil lab of civil Engineering Deptt. | RS. 1,94,360/- |
| 10. | Renottion of transportation and traffic lab. | Rs. 2,91.742/- |
| 11 | Renovation of Electrification of Geology lab. Of Civil Engg. | Rs. 2,10,408/- |
| 12 | Renovation of EPD Cell | Rs. 4,58,604/- |
| 13 | Renovation of Seminar Hall of WRMC Department | Rs. 2,89,910/- |
| 14 | P/F of False ceiling to the corridors of Computer Center Building | Rs. 2,58,953/- |
| 15 | Renovation of ceiling of Chemical Engineering Dept. | Rs. 6,91,199/- |
| 16 | Providing & fixing of glow sign boards | Rs. 5,49,720/- |
| 17 | Renovation of Maintenance and repair of D.G shed. | Rs. 13,39,433/- |
| 18 | Renovation of Staff Club near guest house.  (Electrical Part) | Rs. 2,75,952/- |
| 19 | Renovation of concrete lab. of Civil Engineering Department | Rs. 3,59,654/- |
| 20 | Renovation of Transportation Lab  (Civil Part) | Rs. 6,27,452/- |
| 21 | Renovation of Academic section by fabrication of cup-boards & computer tables (Electric Part) | Rs. 1,60,570/- |
| 22 | Semidense coart to all roads of NIT campus | Rs. 54,14,423/- |
| 23 | Reniovation of Solar house | Rs. 8,16,691/- |
| 24 | Renovation of Activity centre. | Rs. 8,43,344/- |
| 25 | Upgradiation of Badminton courts for 4 No’s 10x20 m. | Rs. 4,07,354/- |
| 26 | Repair & Renovation of Medical unit | Rs.2,78,015.00 |
| 27 | Construction of Pathways | Rs. 12,25,639/- |
| 28 | Fencing of different parks size 4’x0” | Rs. 15,55,958/- |
| 29 | Renovation of Seminar Hall of Civil Engg. Deptt. | Rs. 78,848/- |
| 30 | Painting etc. of EM&R, Power Station, PG Hostel Block, Humanities Block, Hostel Office, Staff club & Academic Block (Flood damaged). | Rs.4,32,238/- |
| 31 | Face lifting of some Institute buildings | Rs. 18,35,067/- |
| 32 | Renovation of Jhelum,C- Block and Dal Hostel(Flood Damaged) | Rs.12,39,336/- |
| 33 | Renovation of S-Quarters | Rs.12,53,458/- |

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| --- | --- | --- |
| Works Executed Under Civil Stage | | |
| 1 | Paneling of T&P office room. | Rs. 1,58,387/- |
| 2 | P/F Floor tiles, wash basins etc at common hall. | Rs. 1,95,489/- |
| 3 | Painting & distempering of I/C Engine, Heat transformer, Steam Engine Lab.& foundry section | Rs. 2,41,532/- |
| 4 | Repair/Renovation of Ground floor of Activity Centre and its face lifting | Rs. 1.34 lacs |
| 5 | Construction of Platform for Electrical Panels in DG Shed | Rs.82,654.00 |
| 6 | Renovation of Tin shed near Jhelum extension | Rs. 4,98,401/- |
| 7 | Minor Renovation of Electrical Deptt. | Rs. 2,38,035/- |
| 8 | Sanitary repair of Dal Hostel | Rs. 5,00,808/- |
| 9 | Repair of Footpath outside the main gate | Rs. 1,06,333/- |
| 10 | Renovation & Repair of EDP cell | Rs. 92,000/- |
| 11 | Fabrication of Ply Wood Working Table Along The Walls in Physics Lab. | Rs1,13,032 |
| 12 | Demolition of Kitchen Counter of S quarter. | *Rs.*  *65,877/-* |
| 13 | Renovation of EM&R Bathroom. | *Rs. 59,965/-* |
| 14 | Providing & fixing of tiles and replacement of damaged door, window shutters of Staff Club. | *Rs. 2,03,211/-* |
| 15 | Construction of Compound walling for Basket Ball Court near Girls Hostel. | *Rs. 1,06,790/-* |
| 16 | Repair /Renovation of Security Office and Security toilet block at Main Gate. | *Rs. 41,724/-* |
| 17 | Replacement of damaged rolling shutters of Estates store and Fluid Mechanics Lab. | *Rs. 21,171/-* |
| 18 | Renovation of Room No. 117 of Civil Engineering Department. | *Rs. 46,122/-* |
| 19 | Const. of gable swell in WRMC. | Rs. 1,76,783/- |
| 20 | Demolishing of kitchen counter of S quarter | Rs. 65,877/- |
| 21 | Renovation of Bath room near newly converted PG Hostel. | Rs. 3,28,357/- |
| 22 | Renovation of Fluid mechanics lab. | Rs. 2,29,787/- |
| 23 | Repair and Renovation of Civil Engineering Attic. | Rs. 1,19,125/- |
| 24 | Construction of Desilting chamber, Septic tank, Man holes in various Hostels. | Rs. 1,63,766/- |
| 25 | Construction of wash room and toilet block of common hall | Rs, 2,96,369/- |
| 26 | Renovation of T & P office. (CIVIL PART) | Rs 3,15,461/- |
| 27 | Painting and distempering P2 & P3 Qtrs. | Rs. 2,85,425/- |
| 28 | Painting and distempering of institute library. | Rs. 2,65,009/- |
| 29 | Construction of security booth including drop gate near main gate. | Rs. 4,23,348/- |
| 30 | P/F of Fencing & Gate for Tawi Hostel/C- Block at NIT Srinagar | Rs. 1,51,777/- |
| 31 | Renovation of Civil stage | Rs. 3,11,647/- |
| 32 | Repair of Indus and Chenab Mess | Rs. 94,466/- |
| 33 | Sanitary fittings for Toilet Block of Common hall. | Rs. 1,25,238/- |
| 34 | Renovation of T&P office. (sanitary part) | Rs. 1,17,325/- |
| 35 | Renovation of Footpath of Common Hall by way of P/F of Kota stone | RS. 1,32,414/- |
| 36 | Fabrication of Almirah’s in soil lab and chemistry lab | Rs. 4,79,706/- |

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| Works under Electric Stage | | |
| 1 | Renovation of Electrification of Tribology Lab Mech. Engg.Deptt. | Rs. 1,73,273/- |
| 2 | Electrification of new Washrooms in Common-hall and new M. tech hostel block. | Rs. 97,385/- |
| 3 | Renovation of Electrification of I.T Engg. Deptt of Institute | Rs. 1,80,500/- |
| 4 | P/F of A/C to Directors Lodge with minor renovation of Electrification | Rs. 1,28,173/- |
| 5 | P/F of Projectors to Attic Class - Rooms of Institute | Rs. 3,63,555/- |
| 6 | Electrification of Solar House | Rs. 1,00,893/- |
| 7 | P/F of Air conditioners to server rooms of computer service centre and Tribology Lab. of Mechanical Engg. Deptt. | Rs. 2,62,238/- |
| 8 | Renovation of electrification of chemical Engg. Lab. | Rs. 2,94,573/- |
| 9 | Electrification of 6 No’s Attics of Jhelum Hostel. | Rs. 2,18,373/- |
| 10 | Renovation of Main Supply and Distribution Board of Dal Hostel | Rs.2,71,221/- |
| 11 | Renovation of Electrification of old $No. of Buildings of Dal Hostel | Rs.3,63,871/- |
| 12 | Electrification of Concrete Lab of Civil Engineering Deptt. | Rs. 2,58,669/- |
| 13 | Replacement of main distribution board of power system of electrical engineering Deptt. | Rs. 84,546/- |

***List of Equipments/Items Purchased during 2015-2016***

|  |  |  |  |
| --- | --- | --- | --- |
| ***S. No.*** | ***Name of the equipment/Item*** | ***Date of Purchase*** | ***Amount of Purchase*** |
|  | *Flooring* | *4/2015* | *Rs. 80,488/-* |
|  | *Flooring* | *4/2015* | *Rs. 80,488/-* |
|  | *Bedding items* | *16-04-2015* | *Rs. 45,222/-* |
|  | *Stabilizers* | *16-04-2015* | *Rs. 7,800/-* |
|  | *Furnishing* | *21-04-2015* | *Rs. 26,520/-* |
|  | *Geysers* | *18-05-2015* | *Rs. 96,000/-* |
|  | *Officers revolving Chair* | *01-05-2015* | *Rs. 6,500/-* |
|  | *Furnishing* | *19-05-2015* | *Rs. 82,400/-* |
|  | *Revolving Chair* | *08-06-2015* | *Rs. 5,675/-* |
|  | *Revolving Chair* | *08-06-2015* | *Rs. 3,519/-* |
|  | *Seater Bench* | *08-06-2015* | *Rs. 12,485/-* |
|  | *Seater Bench* | *08-06-2015* | *Rs. 6,243/-* |
|  | *Crewel Curtains* | *08-07-2015* | *Rs. 13,800/-* |
|  | *Programmable display outdoor Screen* | *13-06-2015* | *Rs. 99,500/-* |
|  | *Revolving Chair* | *28-07-2015* | *Rs. 3,940/-* |
|  | *Revolving Chair* | *28-07-2015* | *Rs. 3,940/-* |
|  | *Bicycle* | *21-08-2015* | *Rs. 9,000/-* |
|  | *Carpet* | *24-07-2015* | *Rs. 14,607/-* |
|  | *Carpet* | *24-07-2015* | *Rs. 14,881/-* |
|  | *Board with stand (Poster display board)* | *18-08-2015* | *Rs. 15,000/-* |
|  | *Board with stand (Poster display board)* | *21-08-2015* | *Rs. 10,000/-* |
|  | *Carpet* | *07-08-2015* | *Rs. 14,823/-* |
|  | *Carpet* | *08-08-2015* | *Rs. 13,455/-* |
|  | *Locks* | *30-07-2015* | *Rs. 12,643/-* |
|  | *Wall panel* | *20-10-2015* | *Rs. 12,500/-* |
|  | *Geysers* | *06-01-1026* | *Rs. 85,400/-* |
|  | *Programmable display outdoor Screen* | *18-01-2016* | *Rs. 99,800/-* |
|  | *Sofa Sets* | *18-01-2016* | *Rs. 95,800/-* |
|  | *Curtains cloth* | *25-01-2016* | *Rs. 83,200/-* |
|  | *Bed & Dressing table* | *25-01-2016* | *Rs. 98,801/-* |
|  | *Flooring* | *29-01-2016* | *Rs. 20,200/-* |
|  | *Sofa Set, Refrigerator, Washing Machine* | *03-02-2016* | *Rs. 99,499/-* |
|  | *Curtain plain* | *08-02-2016* | *Rs. 18,200/-* |
|  | *Geysers* | *10-02-2016* | *Rs. 67,350/-* |
|  | *Curtain cloth* | *16-02-2016* | *Rs. 85,500/-* |
|  | *Bedding items* | *16-02-2016* | *Rs. 84,400/-* |
|  | *Geysers* | *12-02-2016* | *Rs. 67,350/-* |
|  | *Cloth Stand (drying)* | *16-02-2016* | *Rs. 1,00,000/-* |
|  | *Curtains/flags* | *17-02-2016* | *Rs. 76,370/-* |
|  | *Furniture items/Refrigerator* | *23-02-2016* | *Rs. 98,318/-* |
|  | *Hospital beds* | *02-03-2016* | *Rs. 85,100/-* |
|  | *Officers Revolving Chair* | *23-03-2016* | *Rs. 6,900/-* |
|  | *Flooring* | *31-03-2016* | *Rs. 86,950/-* |
|  | *Flooring* | *31-03-2016* | *Rs. 40,698/-* |
|  | *Executive table & Chair* | *31-03-2016* | *Rs. 98,500/-* |
|  | *Furniture items* | *31-03-2016* | *Rs. 35,866/-* |
|  | *Double beds* | *28-04-2016* | *Rs. 72,028/-* |
|  | *Flooring* | *31-03-2016* | *Rs. 15,000/-* |
|  | *Furniture items* | *24-04-2016* | *Rs. 48,300/-* |
|  | *Water Purifier System* | *29-04-2016* | *Rs. 90,600/-* |
|  | *Officers Revolving Chair* | *04-05-2016* | *Rs. 9,600/-* |
|  | *Officers Revolving Chair* | *04-05-2016* | *Rs. 5,500/-* |
|  | *Crewel Curtains* | *19-05-2016* | *Rs. 99,750/-* |
|  | *Vertical blind* | *30-05-2016* | *Rs. 16,320/-* |
|  | *Officers Chair* | *01-06-2016* | *Rs. 7,200/-* |
|  | *Kulron Mattress* | *31-05-2016* | *Rs. 13,000/-* |
|  | *Flags (Silk)* | *06-06-2016* | *Rs, 14,400/-* |

**6.4 CENTRAL WORKSHOP**

**Senior Technical Officer : Er. S.I.A. Qadri**

**Technical Officers: 1. Mr. A. H. Khan,**

**2. Mr. G. N. Lollpuri**

**Introduction**

The field of engineering continues to grow rapidly, transcending disciplines and driving economic growth. Workshop practice have become more significant in the industrial environment to manufacture products for the service of the mankind. Workshop Practice is a core subject and is highly essential for all engineers and technocrats for formalizing themselves with the latest techniques and concepts of manufacturing. The basic requirement is to impart instructions and practical knowledge of workshop technology to all the engineering students. In addition to introduction to various tools, processes and materials, live practical demonstration has been prepared for various trades in the workshop.

A well equipped workshop forms the most important centre in all the Engineering institutions for training of students of all the branches and trades. The students are trained to acquire basic knowledge and skills about engineering materials, manufacturing practices, equipment, tools and safety precautions to be observed during manufacturing of different products. The students carry out manual operations using mostly hand tools and elementary machines in the carpentry, pattern making, bench work and fitting, welding, sheet metal, black smithy and forging, machining, foundry and casting trades etc.. These trades are relevant and common to most of the industries manufacturing and repairing mechanical, electrical, computers, and electronics, instrument and control products.

The student has to acquire practical knowledge and skills of using machines and equipment, various cutting, measuring and marking tools, performing main operations through simple exercises.

The Central Workshop provides facilities in various trades of fabrication and manufacturing.

The workshop is a Central facility and provides full assistance to the students of all departments to under take the classes of Workshop Practice and provides practical training in all its nine engineering streams and also looks after the transport section with an aim to provide the transport to the students for technical tours and other related functions.

The primary objective of the Central Workshop is to impart the workshop practice to the engineering students and carry out the fabrication of project work of B. Tech and M. Tech students besides it plays pivotal role in maintenance and repair work of Institute.

Central workshop carried out the various activities in academics and fabricates 59 numbers of different jobs and engineering projects of students during the 2015-2016 which is given as under: -

Students Project work

Central Workshop has undertaken fabrication of various jobs and projects of the final year students of B. Tech and M. Tech. during the perid2015-2016.

**6.5. CAD LABORATORIES**

The Institute has two well established CAD laboratories in civil and mechanical engineering departments as centralised facilities. Sufficient number of systems and software’s are available for the use of staff and the students.

**6.6 IGNOU PROGRAMME STUDY CENTER**

The Institute also functions as A Programme Study Canter for two UG and two diploma programmes of the Indra Ghandi National Open University (IGNOU), New Delhi. The programmes include B.Tech. in Water Resource Engineering and Construction Management. Diploma programmes include Diploma in Civil Engineering and Advanced diploma in Mechanical Engineering.

**6.7 PHYSICAL EDUCATION**

**In-Charge- Dr. S. K. Bukhari**

The primary objective of the department is to provide sporting and recreational facilities to the students keeping in mind the famous quotation “sound mind carries sound body”. In this direction the department of physical Education is providing various sporting and recreational facilities to the students in the main ground and in the in- door Common Hall. From last few years the department is excelling in all the sports activities like Cricket, Football, Volleyball, Chess, Carom, Badminton, Athletics etc. The main ground of the Institute was made fully operational and capable to hold almost all sporting events.

**Sporting and recreational facilities available to:**

1. **Boy students:**
2. Common Indoor Hall and TV Hall
3. Gymnasium
4. Basket ball court
5. Playground
6. Volleyball court
7. Badminton Court
8. Lawn tennis court
9. Football ground
10. Cricket ground

10- Indoor games**:** Table Tennis, Carom, Chess

1. **Girl Students:**
2. Table tennis
3. Carom
4. Chess
5. Volleyball
6. Badminton
7. Treadmill
8. Mini Gymnasium
9. Kho Kho,
10. Recreational facility: TV facility is provided to the students in hostel of their residence.

**Activities undertaken:**

1. **INTER SEMESTER TOURNAMENT 2015 SPRING**

Inter Semester Tournament in all major outdoor and indoor games was conducted for students during month of April 2015.

1. A FRIENDLY FOOTBALL MATCH BETWEEN NIT SRINAGAR Vs GOVERNMENT MEDICAL COLLEGE SRINAGAR WAS ORGANISED BY THE DEPARTMENT OF PHYSICAL EDUCATION, NATIONAL INSTITUTE OF TECHNOLOGY SRINAGAR.

VENUE: NIT SRINAGAR DATED: 11- 06- 2015

Result:- Match Won by NIT Srinagar by 6:0 goals.

1. “CELEBRATION OF INTERNATIONAL YOGA DAY”

As per the directions of Ministry of Human Resources Development, Government of India, New Delhi, the National Institute Technology Srinagar conducted “International Yoga Day on 21/06/2015. The students (boys/Girls) and Staff participated in the event.

1. A FRIENDLY BASKETBALL MATCH BETWEEN NIT SRINAGAR AND SSM COLLEGE OF ENGINEERING & TECHNOLOGY WAS ORGANISED BY SSM COLLEGE OF ENGINEERING & TECHNOLOGY.

VENUE: SSM COLLEGE Date: 22nd of August 2015

Match Won by SSM College

1. A FRIENDLY CRICKET TOURNAMENT BETWEEN NIT SRINAGAR AND SSM COLLEGE OF ENGINEERING & TECHNOLOGY WAS ORGANISED BY SSM COLLEGE OF ENGINEERING & TECHNOLOGY.

VENUE: SSM COLLEGE 21/09/2015—30/09/2015

Series Won by NIT-Srinagar

6. Tournament Organized by Jammu and Kashmir Football Association.

MATCH 1st DATED:- 22- 07- 2015

NIT Srinagar Vs KhanKha Memorial Football Club.

Result:- Match Draw 1:1 Goal

MATCH 2nd DATED:- 27- 07- 2015

NIT Srinagar Vs Nishat Football Club

Result:- Match Won by NIT Srinagar by 2- 1 Goals.

Match 3rd DATED:- 5- 08- 2015

NIT Srinagar Vs Celtic Football Club Lalbazar

Result:- Match Won by NIT Srinagar by 2- 0 Goals.

1. A CRICKET TOURNAMENT WAS ORGANISED BY SSB (47th Battalion) SOURA AT NIT CAMPUS IN IST WEEK OF SEPTEMBER.

VENUS: NIT SRINAGAR

NIT Srinagar Lost Match. (Knock-out)

8. INTER SEMESTER TOURNAMENTS 2015 AUTUMN

Inter Semester Tournament in all major outdoor and indoor games was conducted for students during month of October 2015.

9. “Events on Sardar Patals Birth Anniversary Day” On 31st October 2015.

9.1 “Morning Event Boys/Girls”

Cross Country Run around NIT Campus.

9.2 “Evening Events Boys/Girls”

Badminton matches between Girls.

Volley ball match between Ist Semester and 3rd Semester

Foot ball match between 5th Semester and 7th Semester

10. “PARTICIPATION IN INTER- NIT TOURNAMENTS”

NIT-Srinagar Participated in INTER NIT Football (Boys) and Kho-kho (Boys-Girls) organized by O- INSA at NIT ROURKELA from 12- 02- 2016 to 14- 02- 2016.

**Football**

1.NIT-Srinagar lost against NIT-Agartala. (Quarter final)

**Kho-Kho (Boys)**

1. NIT-Srinagar Won against NIT-Uthrakhand.

2. NIT-Srinagar lost against NIT-Rourkela.

**Kho-kho (Girls)**

1.NIT-Srinagar lost against NIT-Rourkela. (Quarter final)

NIT-Srinagar Participated in INTER NIT ATHLETICS (Boys-Girls) organized by O- INSA at MNIT JAIPUR from 26- 02- 2016 to 28- 02- 2016

Won Silver Medal and Bronze Medal in Long Jump and Triple Jump

NIT-Srinagar Participated in INTER NIT CRICKET TOURNAMENT organized by O-INSA at NIT - Calicut from 26- 03- 2016 to 29- 03- 20-16

**Cricket**

1. NIT-Srinagar Won against NIT-Agartala.
2. NIT-Srinagar lost against NIT-Silchar.

**Basketball**

1. NIT-Srinagar Won against NIT-Bhopal

2. NIT-Srinagar Won against NIT-Krukshetra

3. NIT-Srinagar Won against NIT-Agartala

4. NIT-Srinagar Lost against NIT-Surathkal. (Quarter Final)

**6.8 STUDENTS’ RESIDENTIAL FACILITIES**

The Institute has six boys Hostels named after famous riveres of our state. These are Chenab, Indus, Jhelum, Dal, Tawi, Jehlum Extension and two girls Hostels which provide accommodation to about 2000 students at present . The residential capacity of each hostel is as under;

**S.No. Name of the Hostel No. of boarders**

**1. Jhelum / Dal Hostel 546 students**

**2. Indus Hostel 536 students (against 380 capacity)**

**3. Chenab Hostel 455 students (against 294 capacity)**

**4. Tawi Hostel: 407 students (against 200 capacity)**

**5. Girls Hostel (02 No’s) 197 students.**

Dr. Abdul Liman is Dean Students Welfare and Dr. Niyaz Ahamd is the Associate Dean Students Welfare.

Hostel / Mess wise list of wardens cum Mess Advisors is as under:

S.No Name Department Hostel assigned

1. Dr. Niyaz Ahmad Mathematics Jehlum

2. Dr. Atiqui Rehman Met.&Met. Engg. Dal & Tawi

3. Dr. Kausar Majid Chemistry Deptt. Girls

4. Er Tanveer Rasool Dar Chemical Engg Deptt. Indus

5 Dr. A. H. Bhat Electrical Engg. Day Scholar

**Purchases made:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Name Of The Equipment/Items** | **Quantity** | **Date of Purchase** | **Amount of Purchase** |
| **01.** | Electric Tri Cycles | 02 | 20-08-2015 | 1,69,764  **(Purchased through C.P.U)** |
| **02.** | Lawn Mover | 01 | 22-05-2015 | Rs 51,000/- |
| **03.** | Water Purifiers with Water Tanks | 05 | 22-02-2016 | 98,500/- |
| **04** | Dustbins | 200 | 24-02-2016 | Rs 69,000/- |
| **05** | Hangers | 500 | 24-02-2016 | Rs 14,750/- |
| **06** | Water Pumps | 03 | 08-03-2016 | Rs 14,685/- |
| **07** | Gardening Tools | - | 08-03-2016 | Rs 14,836/- |
| **08** | Dewatering Pump with canvas pipes | 01 | 31-03-2016 | Rs 39,350/- |

**ACTIVITIES**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Name of the Programme** | **Date when Conducted** | **Conducted by which Club** |
| **01.** | Do you uphold the verdict in the Salman Khan’s hit & run case | 9th May | Quiz & Debate |
| **02.** | Swachh Bharat Abhiyaan | 2nd October | Social Initiative |
| **03.** | Vigilance Awarenes Week | 27th October | Quiz & Debate Club |
| **04.** | Kavi Samelan | 1st November | Poetry Club |

**6.9. RESIDENTIAL AND SHOPPING FACILITIES**

The Institute being a residential Institute therefore campus provides residential facilities to some of its employees comprising of the faculty, administrative staff and the other supporting staff .

In addition to dedicated lodge for the Director and a well furnished guest house located on the bank of the world famous Dal Lake, the residential campus has the following staff quarters:

1. Directors lodge : 01
2. P-type Quarters : 08
3. A-type Quarters : 24
4. L-type Quarters : 42

The Institute also has facilities of day to day needs, like food commodities, stationery, tailoring facilities and STD facilities etc. for the students and the staff. There are number of shops within the campus to cater to the daily needs of the residents and non-resident employees and the students of the Institute, details given as follows:

1. General Provision & Stationery Stores : 024
2. Barber Shop : 01
3. Tailor Shop : 01
4. Tea Stall / Restaurants : 03
5. STD Stall : 03
6. Cafeteria : 01

**6.10. MEDICAL UNIT**

The Medical Unit of the Institute is headed by a qualified and experienced Medical Officer and manned by trained Lab. and other paramedical staff. A lady doctor is available daily on part time basis. The Medical Unit has a two storied separate building spread over an area of 303 sq.mtr. with a solar ward for providing indoor facilities to the staff and the students. Apart from providing facilities for consultations and investigations, medicines are issued to the students and staff free of any cost. The Unit has two Ambulances available to cater to emergencies round the clock. Both Doctors are on call. In the recent past the hospital has been modernized and has been equipped with the latest diagnostic tools like the Haematological and Biomedical equipment and a fully automatic ECG unit. The Medical Unit also ensures hygienic in the students messes and restaurants / tea stalls by advisories and inspections.

Annual statement for the year 2015-16:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Total number of Patient’s examined** | | **Dressing and minor surgical interventions** | | **Patient’s referred to various Hospitals** | | **Total Lab. Investigations undertaken** | | **Patients counseled by Counselor** | | **Total Patient admitted** | |
| Students | Staff | Students | Staff | Students | Staff | Students | Staff | Students | Staff | Students | Staff |
| 11000 | 4500 | 1600 | 600 | 80 | 20 | 1038 | 598 | 60 | 12 | 90 | 15 |
| 15,500 | | 2200 | | 100 | | 1636 | | 72/excluding F/U | | 105 | |

Total number of patients attended ----19,541 persons.

**Purchases made during the year 2015-16:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.NO. | Name of item | Qantity | Rate in Rs | Date of purchase |
| 1 | Litman,s stethoscope | 01 | 7,429.00 | 25/8/15 |
| 2 | Microtone stethosepe | 03 | 858.00 | Do |
| 3 | Digital thermometer | 04 | 248.00 | Do |
| 4 | B. P. Apparatus (Diamond) | 01 | 2191.00 | Do |
| 5 | Scissors-6” | 03 | 200.00 | 03/09/15 |
| 6 | Tissue cutting scissors | 03 | 253.00 | Do |
| 7 | Sutur cutting scissor | 03 | 467.00 | Do |
| 8 | Artry Forcep (Medium) | 04 | 362.00 | Do |
| 9 | Allice Forcep tissue | 03 | 358.00 | Do |
| 10 | Tissue Holding Forcep | 03 | 267.00 | Do |
| 11 | Mosq uito Forcep | 03 | 324.00 | Do |
| 12 | Sponge Holding Forcep | 03 | 420.00 | Do |
| 13 | Printer Canon (3 in one) | 01 | 7619.00 | 20/11/15 |
| 14 | UPS (Intex) | 02 | 1923.00 | 20/11/15 |
| 15 | Crash-cart | 01 | 25,199.00 | 30/12/15 |
| 16 | I/V Rod (Drip stand) | 04 | 3172.00 | Do |
| 17 | Patient stool | 02 | 2467.00&4934.00 | Do |
| 18 | Surgeon stool | 01 | 6036.00 | Do |
| 19 | X-View Box | 01 | 2978.00 | Do |
| 20 | Examination table | 01 | 11,719.00 | Do |
| 21 | Strecher with trolly | 01 | 8723.00 | Do |
| 22 | Mobile operating light | 01 | 9604.00 | Do |

**6.11. BANK**

A fully computerized branch of J&K bank is functioning within the Institute premises having net worked ATM. The bank has installed internet banking / phone banking/mobile banking in the branch. The bank also extends swift facility of house building loans, consumer’s loans and many other small loans to the staff and educations loans to the students. One more ATM by SBI has been installed during the year.

**6.12. TELEPHONE EXCHANGE**

Our Institute has a fully automated telephone exchange providing internal and external phone connectivity**.**

**6.13 Transport Unit**

The institute has a fleet of vehicles comprising 03 cars, 02 ambulances, and a mini truck and mini Bus. Prompt attention was given to repair and maintenance of the Institute vehicles. Transport facilities were provided the various experts and other Institute guests invited for placement of students and other academic activities. The transport facilities were also provided to the students for conducting the various technical tours. In addition, Ambulance service has been provided to the Medical Unit of the Institute which facilitates the students in getting the proper medical care during emergency.

**6.14. POST OFFICE**

Though a Post and Telegraph office operates near the campus at Hazratbal, at one and a half kilometer distance, the Institute has taken step to get a Post Office established in the Campus itself for benefit of students.

**7.0 ACHIEVEMENTS & INITIATIVES**

The Institute continued its efforts during the year 2015-2016 towards evolving directions to further growth and dissemination of scientific and technological knowledge. Brief outline of the major achievements are presented at below***:***

1. **Research and Development (R&D) Activities:**

The various Departments and Centres continue to carry out the research and development work in their respective areas of specializations. During the year following remained the main contribution in the R&D field:

1. **Ph.D.**
2. Awarded 12
3. Pursuing 181
4. Admitted 92
5. **M. Phil**
6. Pursuing 07
7. Admitted -

1. **Sponsored Research and Industrial Consultancy:**

The various Departments and Centres of the Institute continue to work on sponsored research and industrial consultancy projects. During the year the work continued on 05 sponsored R &D projects amounting to about Rs.50.91 lacs.

A large number of consultancy assignments were also taken up during the year for an approximate amount of Rs.91.50 lacs.

1. **Acquisition of additional Campus:**

* The efforts for the acquisition of additional land were continued by the Institute and the matter is pending with the Government of J&K.

1. **Seminars, Workshops and other programmes conducted :**

* National Conferences ---- 02
* Short Courses / Workshops ---- 02
* INSPIRE Program ---- 01

1. **Placement:**

During the year under report the Department succeeded in involving many companies and other agencies in the process of placement/trainings of the students and in some departments. In addition some students were appointed through off-campus selections and good number of students has gone for higher studies.

1. **Convocation 2015:**

The Annual Convocation of the institute of the year 2015 was held 03-10-2015. The convocation of 2014 which could not be held due to devastating floods of September 2014 was also held along this.

1. **Inter NIT Technical Festival:**

The Annual technical festival named “Techwaganza 2015” was conducted by the Institute. Students from various Institutes of the Kashmir valley and some NITs in addition to large number of students of the Institute participated in the festival showcasing their technical talents. Some specialized expert lecturer were also arranged during the festival.

**8.0. THE COUNCIL, BOG AND OTHER COMMITTEES**

8.1. NIT COUNCIL:

|  |  |  |
| --- | --- | --- |
| (a) | Minister of Human Resource Development, Government of India. | Chairman |
| (b) | Secretary,  Department of Secondary & Higher Education,  Ministry of HRD, Government of India. | Member |
| (c) | Principal Adviser (Education),  Planning Commission. | Member |
| (d) | Secretary,  Department of Science & Technology, Government of India. | Member |
| (e) | Director General,  Council of Scientific & Industrial Research, Government of India. | Member |
| (f) | Secretary,  Department of Biotechnology, Government of India. | Member |
| (g) | Secretary,  Atomic Energy, Government of India. | Member |
| (h) | Secretary,  Department of Information Technology, Government of India. | Member |
| (i) | Secretary,  Department of Space, Government of India. | Member |
| (j) | Special Secretary / Addl. Secretary / Educational Adviser (T),  Department of Secondary & Higher Education,  Ministry of HRD, Government of India. | Member |
| (k) | Chairman,  University Grant Commission. | Member |
| (l) | Chairman,  All India Council of Technical Education. | Member |
| (m) | Two Chairmen, Board of Governors of National Institutes of Technology (by rotation). | Members |
| (n) | Four Directors of the National Institutes of Technology (by rotation). | Members |
| (o) | One Director of Indian Institute of Technology (by rotation). | Member |
| (p) | One Director of Indian Institute of Management (by rotation). | Member |
| (q) | Two Secretaries of Higher / Technical Education  from states where NITs are located (by rotation). | Members |
| (r) | Two persons from Industry nominated by the Central Government. | Members |
| (s) | Financial Adviser,  Ministry of Human Resource Development, Government of India. | Member |
| (t) | Joint Secretary, (Technical Education), Joint Educational Adviser (Technical Education), Ministry of Human Resource Development  Government of India. | Member-Secretary |

8.2. BOARD OF GOVERNORS:

|  |  |  |
| --- | --- | --- |
| ***Chairman*** | Nomination under Section 11 of NIT Act, 2007 (29 of 2007) Clause (a) | Dr. M. J. Zarabi  (Chairman, Board of Governors,  NIT Srinagar),  C/o. C-28, Pamposh Enclave, Greater Kailash Part-1,  New Delhi-110048 |
| ***Ex-Officio*** | (b) | Prof. Rajat Gupta  Director,  National Institute of Technology Srinagar, Hazratbal, Kashmir-190006 |
| *Two persons not below the rank of the Joint Secretary to the Government of India to be nominated by the Central Government from amongst persons dealing with technical education and finance* | (c) | Mr. S. P. Goyal,  Joint Secretary (NITs & DL),  Ministry of Human Resource Development,  Department of Secondary & Higher Education, Government of India, New Delhi |
| (c) | Smt. Darshana Momaya Dabral,  Joint Secretary & FA,  Ministry of Human Resource Development,  Department of Secondary & Higher, Government of India, New Delhi. |
| *Two persons to be nominated by the Government of the State in which the Institute is situated, from amongst persons, who, in the opinion of that Government, are technologists or industrialists of repute* | (d) | Commissioner Secretary,  Higher & Technical Education Dept.,  Government of Jammu and Kashmir,  Civil Secretariat, Srinagar / Jammu. |
| (d) |  |
| *Two persons, at least one of whom shall be a woman, having special knowledge or practical experience in respect of education, engineering or science to be nominated by the Council* | (e) |  |
| (e) |  |
| *One Professor and one Assistant Professor or a Lecturer of the Institute to be nominated by the Senate* | (f) | Prof. G. M. Rather,  Head,  Electronics & Communication Engg. Deptt.,  National Institute of Technology Srinagar. |
| (f) | Dr. J. M. Banday,  Associate Professor,  Physics Department,  National Institute of Technology Srinagar. |
| ***Member-Secretary*** | Section 18 Clause (2) | Prof. Fayaz Ahmad Mir,  Registrar I/C, NIT, Srinagar. |

8.3. FINANCE COMMITTEE:

|  |  |  |
| --- | --- | --- |
| ***Chairman*** |  | Dr. M. J. Zarabi,  (Chairman, Board of Governors,  NIT Srinagar),  C/o. C-28, Pamposh Enclave,  Greater Kailash Part-1,  New Delhi-110048 |
| ***Members:***  Two persons nominated by the Central Government | 1  2 | Mr. S. P. Goyal,  Joint Secretary (NITs & DL),  Ministry of Human Resource Development,  Department of Secondary & Higher Education, Government of India, New Delhi  Smt. Darshana Momaya Dabral,  Joint Secretary & FA,  Ministry of Human Resource Development,  Department of Secondary & Higher, Government of India, New Delhi. |
| Two persons nominated by the BOG from amongst its members | 1  2 | Prof. G. M. Rather,  Professor & Head,  Electronics & Comm. Engg. Deptt.,  National Institute of Technology Srinagar. |
| Director  (Ex-officio) |  | Prof. Rajat Gupta  Director,  National Institute of Technology,  Hazratbal, Srinagar-190006 |
| Member Secretary  (Ex-officio) |  | Prof. Fayaz Ahmad Mir,  Registrar I/C,  National Institute of Technology Srinagar. |

**8.4. SENATE:**

|  |  |  |
| --- | --- | --- |
| Chairman |  | Prof. Rajat Gupta,  Director, ex-officio  National Institute of Technology,  Hazratbal, Srinagar-190006. (J&K), |
| *Three persons, one of whom shall be a woman, not being employees of the Institute to be nominated by the Chairperson in consultation with the Director, from amongst educationists of repute, one each from the field of Science, Engineering and Humanities* | 1 | FIELD OF SCIENCE:  Prof. Veena Chowdhary,  Centre for Polymer Science,  Indian Institute of Technology,  Hauz Khas, New Delhi. |
| 2 | FIELD OF ENGINEERING:  Prof. P. D. Porey,  Director,  Sardar Vallabhbhai National Institute of Technology Surat,  Gujarat-395007 |
| 3 | FILED OF HUMANITIES:  Prof. Abdul Wahid,  Vice-Chancellor,  Central University of Kashmir,  Srinagar (J&K) |
|  |  | Mr. Rajesh Uppal,  Executive Director IT & CIO,  Information Technology Division,  Maruti Suzuki India Ltd., Palam Gurgaon Road,  Gurgaon-122015 (Haryana)  E mail: Rajesh.Uppal@maruti.co.in |
| ***The Professors appointed or recognized as such by the Institute for the purpose of imparting instructions in the Institute.*** | 1 | All Professors |
| **Such other members of the staff as may be laid down in the Statutes** | 1 | All Dean, HoDs, Associate Deans, Controller of Examination, Co-ordinator 1st & 2nd Semester, Chairman Library Committee, Librarian and DPE. |
| **Secretary** | Prof. Fayaz Ahmad Mir,  Registrar I/C,  NIT, Srinagar | |

8.5. BUILDING AND WORKS COMMITTEE

|  |  |  |
| --- | --- | --- |
| Chairman |  | Prof. Rajat Gupta  Director,  National Institute of Technology,  Hazratbal, Srinagar-190006 |
| ***Members:***  **Nominated by MHRD and IFD New Delhi** | 1  2 | Director OR  Deputy Secretary (NITs),  MHRD,  Department of Secondary & Higher Education,  Government of India, New Delhi – 110 001.  Representative of \*  Integrated Finance Division (IFD) |
| One person nominated by the Board of Governors |  | Syed Shuja Hussain,  Former Chief Engineer (Civil)  PWD J&K Government  R/o:Al-Manzir, Rajbagh, Srinagar |
| Dean,  Planning & Development |  | Prof. Javed Ahmad Bhat,  Civil Engineering Department,  NIT Srinagar |
| Nominee of the CPWD / State PWD | **1**  **2**  **3**  **4**  **5**  6 | Mr. Dhiraj Kumar, ,  Superintendent Engineer (Civil),  CPWD, Chandigarh.  Shri Prabhakar Kumar Verma,  Chief Architect,  CPWD,  Chandigarh  Prof. Javed Ahmad Bhat,  Associate Dean,  P&D, NIT Srinagar  Shri Rajiv Sao,  Superintendent Engineer,  CPWD Chandigarh  Executive Engineer (Civil),  CPWD, Srinagar.  Er. Aijaz Ahmad Khan,  Executive Engineer,  Electric Division 4th  Srinagar. |
| Secretary |  | Prof. Fayaz Ahmad Mir,  Registrar I/C,  NIT, Srinagar. |

The meetings of the above statutory committees were conducted as detailed below:

|  |  |
| --- | --- |
| Name of Statutory Committee | Date of the meeting |
| Senate | 1. 27-05-2015 2. 17-09-2015 |
| Building Works Committee | * + 1. 10-07-2015     2. 28-09-2015 |
| Finance Committee | * + - 1. 11-07-2015       2. 28-09-2015       3. 30-12-2015 |
| Board of Governors | 1. 11-07-2015 2. 28-09-2015 3. 30-12-2015 |