

# Annual Quality Assurance Report (AQAR) in Accredited Institutions

(2016-17)



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

*An Autonomous Institution of the University Grants Commission*

P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India

## The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

### Part – A

#### I. Details of the Institution

|                                      |  |
|--------------------------------------|--|
| 1.1 Name of the Institution          | Jaypee University of Information Technology                    |
| 1.2 Address Line 1                   | PO Wagnaght  |
| Address Line 2                       | Teh. Kandaghat   |
| City/Town                            | Distt Solan  |
| State                                | Himachal Pradesh   |
| Pin Code                             | 173234   |
| Institution e-mail address           | <a href="mailto:registrar@juit.ac.in">registrar@juit.ac.in</a> |
| Contact Nos.                         | 01792-245371   |
| Name of the Head of the Institution: | Prof Vinod Kumar   |
| Tel. No. with STD Code:              | 01792-239201   |
| Mobile:                              | 9412074172   |

Name of the IQAC Co-ordinator:

Prof Sunil Kumar Khah

Mobile:

9816975754

IQAC e-mail address:

juitiqac@mail.juit.ac.in

1.3 NAAC Track ID (For ex. MHC0GN 18879)

11898

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004.

This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)

EC/56/A7A/009 dated 16-09-2011

1.5 Website address:

www.Juit.ac.in

Web-link of the AQAR:

<http://www.juit.ac.in/IQAC/AQAR.php>

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

| Sl. No. | Cycle                 | Grade | CGPA | Year of Accreditation | Validity Period |
|---------|-----------------------|-------|------|-----------------------|-----------------|
| 1       | 1 <sup>st</sup> Cycle | B     | 2.64 | 2011                  | 2016            |
| 2       | 2 <sup>nd</sup> Cycle | B+    | 2.67 | 2017                  | 2022            |
| 3       | 3 <sup>rd</sup> Cycle |       |      |                       |                 |
| 4       | 4 <sup>th</sup> Cycle |       |      |                       |                 |

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

05/09/2016

1.8 AQAR for the year (for example 2010-11)

2016-17

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*for example AQAR 2010-11 submitted to NAAC on 12-10-2011*)

- i. AQAR 2015-16 (06/10/2016)
- ii. AQAR 2014-15 (08/07/2017)
- iii. AQAR 2013-14 (08/07/2017)
- iv. AQAR 2012-13 (08/07/2017)
- v. AQAR 2011-12 (08/07/2017)

1.10 Institutional Status

University State  Central  Deemed  Private

Affiliated College Yes  No

Constituent College Yes  No

Autonomous college of UGC Yes  No

Regulatory Agency approved Institution Yes  No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education  Men  Women

Urban  Rural  Tribal

Financial Status Grant-in-aid  UGC 2(f)  UGC 12B

Grant-in-aid + Self Financing  Totally Self-financing

1.11 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys Edu)

TEI (Edu)  Engineering  Health Science  Management

Others (Specify)

1.12 Name of the Affiliating University (*for the Colleges*)

NA

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence

UGC-CPE

DST Star Scheme

UGC-CE

UGC-Special Assistance Programme

DST-FIST

Department of  
Biotechnology

UGC-Innovative PG programmes

Any other (*Specify*)

UGC-COP Programmes

## **2. IQAC Composition and Activities**

2.1 No. of Teachers

7

2.2 No. of Administrative/Technical staff

2

2.3 No. of students

3

2.4 No. of Management representatives

1

2.5 No. of Alumni

3

2.6 No. of any other stakeholder and  
community representatives

0

2.7 No. of Employers/ Industrialists

1

2.8 No. of other External Experts

2.9 Total No. of members

17

2.10 No. of IQAC meetings held No

2.11 No. of meetings with various stakeholders: . Faculty

Non-Teaching Staff Students  Alumni  Others

2.12 Has IQAC received any funding from UGC during the year? Yes  No

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.  International  National  State  Institution Level

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year \*

| Plan of Action   | Achievements   |
|--|--|
| The meeting IQAC and its sub committees has discussed and deliberated on the feedback from different stakeholders and have made recommendations on the specific inputs | On the basis of recommendations, the following actions were recommended<br>1. To introduce CBCS from semester 5th of B.Tech<br>2. More stress on research proposals. |

\* Attach the Academic Calendar of the year as Annexure.

2.15 Whether the AQAR was placed in statutory body Yes  No

Management  Syndicate  Any other body

Provide the details of the action taken

On the basis of recommendations, the following actions were recommended  
 1. To introduce CBCS from semester 5<sup>th</sup> of B.Tech, which was placed in the Academic Council meeting held on and same was approved by Governing Council

## Part – B

### Criterion – I

#### I. Curricular Aspects

##### 1.1 Details about Academic Programmes

| Level of the Programme | Number of existing Programmes | Number of programmes added during the year | Number of self-financing programmes | Number of value added / Career Oriented programmes |
|------------------------|-------------------------------|--|-------------------------------------|--|
| PhD                    | 8                             | 0  | 8                                   | 0  |
| PG                     | 7                             | 0  | 7                                   | 0  |
| UG                     | 6                             | 0  | 6                                   | 0  |
| PG Diploma             |                               |  |                                     |  |
| Advanced Diploma       |                               |  |                                     |  |
| Diploma                |                               |  |                                     |  |
| Certificate            |                               |  |                                     |  |
| Others                 |                               |  |                                     |  |
| <b>Total</b>           | 21                            | 0  | 21                                  | 0  |
| Interdisciplinary      | 0                             | 0  | 0                                   | 0  |
| Innovative             | 0                             | 0  | 0                                   | 0  |

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

(ii) Pattern of programmes:

| Pattern   | Number of programmes |
|-----------|----------------------|
| Semester  | 21                   |
| Trimester | 0                    |
| Annual    | 0                    |

1.3 Feedback from stakeholders\* Alumni  Parents  Employers  Students   
*(On all aspects)*

Mode of feedback : Online  Manual  Co-operating schools (for PEI)

*\*Please provide an analysis of the feedback in the Annexure*

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Syllabus of different courses offered by the department are updated on regular basis. • New case-studies, video lectures have been included. • The University provides complete autonomy to the departments/faculties to • revise or update existing curricula to incorporate latest knowledge development. On an average regular curricula revision and up gradation takes place. Syllabus for Materials Science, Physics-I and Physics-II Courses offered to UG students has been revised. Academic Council has approved the revision of B.Tech Biotechnology structure in its meeting

1.5 Any new Department/Centre introduced during the year. If yes, give details.

Nil

## Criterion – II

### 2. Teaching, Learning and Evaluation

|                                    |       |                  |                      |            |        |
|------------------------------------|-------|------------------|----------------------|------------|--------|
| 2.1 Total No. of permanent faculty | Total | Asst. Professors | Associate Professors | Professors | Others |
|                                    | 106   | 80               | 17                   | 9          |        |

2.2 No. of permanent faculty with Ph.D. 74

|   |                  |   |                      |   |            |   |        |   |       |   |
|---|------------------|---|----------------------|---|------------|---|--------|---|-------|---|
| 2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year | Asst. Professors |   | Associate Professors |   | Professors |   | Others |   | Total |   |
|   | R                | V | R                    | V | R          | V | R      | V | R     | V |
|   | 23               |   |                      |   |            |   |        |   | 23    |   |

2.4 No. of Guest and Visiting faculty and Temporary faculty

2.5 Faculty participation in conferences and symposia:

| No. of Faculty   | International level | National level | State level |
|------------------|---------------------|----------------|-------------|
| Attended         | 36                  | 8              |             |
| Presented papers | 40                  | 11             |             |
| Resource Persons | 3                   | 12             |             |

2.6 Innovative processes adopted by the institution in Teaching and Learning:

Short course projects, assignments and presentations are the part of courses taught to the students, which may be core or elective.

Most of the lectures and tutorials are interactive in nature .

Research paper analysis is also conducted for the development of R&D activities.

2.7 Total No. of actual teaching days during this academic year 183

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions) Self Check by Students

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

|    |    |    |
|----|----|----|
| 44 | 29 | 14 |
|----|----|----|

2.10 Average percentage of attendance of students 80

2.11 Course/Programme wise distribution of pass percentage :

| Title of the Programme |     | Total no. of students appeared (Appeared/Pass) | Division      |     |      |       |        |
|------------------------|-----|--|---------------|-----|------|-------|--------|
|                        |     |  | Distinction % | I % | II % | III % | Pass % |
| B. Tech                | BI  | 25/23  |               |     |      |       | 92     |
| B. Tech                | BT  | 29/28  |               |     |      |       | 96.55  |
| B. Tech                | CE  | 114/107  |               |     |      |       | 93.86  |
| B. Tech                | CSE | 127/123  |               |     |      |       | 96.85  |
| B. Tech                | ECE | 99/94  |               |     |      |       | 94.95  |
| B. Tech                | IT  | 21/20  |               |     |      |       | 95.24  |
| M. Tech                | BT  | 4/4  |               |     |      |       | 100    |
| M. Tech                | CSE | 16/16  |               |     |      |       | 100    |
| M. Tech                | CE  | 14/14  |               |     |      |       | 100    |
| M. Tech                | ECE | 16/15  |               |     |      |       | 93.75  |
| M. Tech                | EM  | 10/9   |               |     |      |       | 90     |
| M. Tech                | SE  | 14/14  |               |     |      |       | 100    |

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

1. IQAC takes a regular feedback from all stakeholders in a structured way on all the aspects of teaching and learning

2. The feedbacks are evaluated timely and the recommendations are implemented.

### 2.13 Initiatives undertaken towards faculty development

| <i>Faculty / Staff Development Programmes</i>  | <i>Number of faculty benefitted</i> |
|--|-------------------------------------|
| Refresher courses                              | 34                                  |
| UGC – Faculty Improvement Programme            | 42                                  |
| HRD programmes                                 | 10                                  |
| Orientation programmes                         | 10                                  |
| Faculty exchange programme                     | 38                                  |
| Staff training conducted by the university     | 17                                  |
| Staff training conducted by other institutions | 39                                  |
| Summer / Winter schools, Workshops, etc.       | 14                                  |
| Others   |                                     |

### 2.14 Details of Administrative and Technical staff

| Category             | Number of Permanent Employees | Number of Vacant Positions | Number of permanent positions filled during the Year | Number of positions filled temporarily |
|----------------------|-------------------------------|----------------------------|--|--|
| Administrative Staff | 72                            |                            | 2  |  |
| Technical Staff      | 41                            |                            | 3  |  |

## Criterion – III

### 3. Research, Consultancy and Extension

#### 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

The faculty is encouraged and provided financial assistance to present their research work in national and international conferences.  
 In addition to this the university strongly promotes the participation of faculty in workshops, symposia to update their research  
 Faculty is encouraged to publish their work in international journals of repute  
 Partial financial support to PhD students working on projects.  
 Providing financial support to research projects in case of shortage of funds

#### 3.2 Details regarding major projects

|                     | Completed | Ongoing | Sanctioned | Submitted |
|---------------------|-----------|---------|------------|-----------|
| Number              | 10        | 15      |            | 11        |
| Outlay in Rs. Lakhs | 261.54    | 787.03  |            |           |

3.3 Details regarding minor projects

|                     | Completed | Ongoing | Sanctioned | Submitted |
|---------------------|-----------|---------|------------|-----------|
| Number              |           |         |            |           |
| Outlay in Rs. Lakhs |           |         |            |           |

3.4 Details on research publications

|                          | International | National | Others |
|--------------------------|---------------|----------|--------|
| Peer Review Journals     | 200           | 16       |        |
| Non-Peer Review Journals |               |          |        |
| e-Journals               |               |          |        |
| Conference proceedings   | 88            | 27       | 2      |

3.5 Details on Impact factor of publications:

Range  Average  Highest h-index  Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

| Nature of the Project  | Duration Year | Name of the funding Agency | Total grant sanctioned | Received |
|--|---------------|----------------------------|------------------------|----------|
| Major projects   | 2016-2017     | DST,DBT, DRDo, HIMCOSTE    | 787.03                 | 787.03   |
| Minor Projects   |               |                            |                        |          |
| Interdisciplinary Projects   |               |                            |                        |          |
| Industry sponsored   |               |                            |                        |          |
| Projects sponsored by the University/ College                                  |               |                            |                        |          |
| Students research projects<br><i>(other than compulsory by the University)</i> |               |                            |                        |          |
| Any other(Specify)   |               |                            |                        |          |
| Total  |               |                            |                        |          |

3.7 No. of books published i) With ISBN No.  Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP  CAS  DST-FIST   
DPE  DBT Scheme/funds

3.9 For colleges

Autonomy  CPE  DBT Star Scheme   
INSPIRE  CE  Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

| Level               | International        | National       | State | University | College |
|---------------------|----------------------|----------------|-------|------------|---------|
| Number              | 2                    | 2              |       |            |         |
| Sponsoring agencies | IEEE, DST, DRDO,JUIT | DST, DRDO,JUIT |       |            |         |

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International  National  Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency  From Management of University/College

Total

3.16 No. of patents received this year

| Type of Patent |         | Number |
|----------------|---------|--------|
| National       | Applied | 01     |
|                | Granted |        |
| International  | Applied |        |
|                | Granted |        |
| Commercialised | Applied |        |
|                | Granted |        |

3.17 No. of research awards/ recognitions received by faculty and research fellows Of the institute in the year

| Total | International | National | State | University | Dist | College |
|-------|---------------|----------|-------|------------|------|---------|
| 18    | 13            | 5        |       |            |      |         |

3.18 No. of faculty from the Institution who are Ph. D. Guides   
and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF  SRF  Project Fellows  Any other

3.21 No. of students Participated in NSS events:

University level  State level   
National level  International level

3.22 No. of students participated in NCC events:

University level  State level   
National level  International level

3.23 No. of Awards won in NSS:

University level  State level   
National level  International level

3.24 No. of Awards won in NCC:

University level  State level   
National level  International level

3.25 No. of Extension activities organized

University forum  College forum   
NCC  NSS  Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Installation of Biogas systems in the university and school in Domaher village by using waste from food and agricultural .
- Inviting schools students to the university from different areas of HP for the interactions with faculties, students and PhD scholars to appraise them about future avenues and research activities.
- Visit of faculties to different schools to conduct awareness drives about future perspectives in different streams of biological sciences and engineering.
- Visit of Different Gram Pradhans to JUIT

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

| Facilities  | Existing | Newly created | Source of Fund | Total   |
|---|----------|---------------|----------------|---------|
| Campus area   | 25       | 0             | JUIT           | 25      |
| Class rooms   | 8        | 0             | JUIT           | 8       |
| Laboratories  | 58       | 0             | JUIT           | 58      |
| Seminar Halls   | 3        | 0             | JUIT           | 3       |
| No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year. | 1        | 4             | JUIT           | 5       |
| Value of the equipment purchased during the year (Rs. in Lakhs)                   | 1610.87  | 406.71        | JUIT           | 2017.58 |
| Others  |          |               |                |         |

#### 4.2 Computerization of administration and library

Library services are fully computerized with –Library Management Software. The procurement of documents, issue return of documents, technical processing all are being done with the help of software.

The Whole administrative work is done by campus connect software

#### 4.3 Library services:

| Library Services           | Existing |          | Newly Added |         | Total |          |
|----------------------------|----------|----------|-------------|---------|-------|----------|
|                            | No.      | Value    | N.          | Value   | No.   | Value    |
| Text Books (2002-16)       | 18644    | 46347207 | 1321        | 612391  | 19965 | 47414661 |
| Reference Books Z(2002-16) | 12576    |          | 120         | 455063  | 12705 |          |
| E-Books                    | 372      | 533887   | -           | -       | 372   | 533887   |
| Journals*                  | 102      | 3205065  | 105         | 3223439 | 105   | 3223439  |
| e-Journals*                | 12078    | 2407385  | 9082**      | 3208646 | 9082  | 3208646  |
| Digital Database           | 5        |          | 7           |         | 7     |          |
| CD & Video                 |          |          |             |         |       |          |
| Other Z(Specify)           | 2935     |          | 113         |         | 2048  |          |

\*Journals,e-Journals, Database are accessible on year subscription based model, hence detail is not cumulated in total

\*\* 936 e-Journals + 8146 Conf. proceedings and symposia etc.

#### 4.4 Technology up gradation (overall)

|          | Total Computers                 | Computer Labs | Internet                          | Browsing Centres | Computer Centres | Office | Departments | Others |
|----------|---------------------------------|---------------|-----------------------------------|------------------|------------------|--------|-------------|--------|
| Existing | 912                             | 637           | 1GBPS (BSNL)<br>10 MBPS (Railtel) | 66               | 59               | 34     | 108         | 18     |
| Added    | 200                             | 107           | 5 MBPS (Railtel)                  | 0                | 0                | 0      | 0           | 0      |
| Total    | 1029 ( 83 discarded as e waste) | 744           | 1GBPS (BSNL)<br>15 MBPS (Railtel) | 66               | 59               | 34     | 108         | 18     |

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

All the staff and faculty members are provided with an individual computer with round the clock internet and intranet access. The workshops are organised from time to time for training of faculty, staff and students on different themes like vlab, cybercrime etc.

#### 4.6 Amount spent on maintenance in lakhs :

|  |                  |
|--|------------------|
| i) ICT                                   | 19.925           |
| ii) Campus Infrastructure and facilities | 7.26             |
| iii) Equipments                          | 110.59           |
| iv) Others                               | 21.48            |
| <b>Total :</b>                           | <b>159.24172</b> |

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- IQAC has invoked several suggestions to enhance student support services like, scholarships, grievance cell, anti-ragging, women's cell, health programmes, facility of canteen, transport, hostel, sports, library, and timely disbursing the fellowship *etc.*
- IQAC along with management and faculty conducts orientation programmes for newly enrolled students in all the B.Tech branches.
- IQAC encourages departments to organized workshops and events for skill development of students.
- IQAC has encourages faculties to nurture research outlook among students.

#### 5.2 Efforts made by the institution for tracking the progression

- To check the student's regular progression seminars, presentations, assignments, class tests and remedial tutorials are taken.
  - After the Test-I and Test-II result analysis  
Remedial classes are conducted after tracking the weakness of students.
  - Extra classes are arranged for the revision of course.
- The University has started to prepare the database concerning the progression of the students. Alumni feedback is one of the main part of it.
- Details of all students are being recorded and updated time to time and kept in the core departments/registry.
- Pass out students meeting are held regularly at the end of the year and an exit feedback is collected, analysed and results are accordingly advised to concerned departments.

#### 5.3 (a) Total Number of students

| UG   | PG  | Ph. D. | Others |
|------|-----|--------|--------|
| 1880 | 126 | 101    |        |

(b) No. of students outside the state

1809

(c) No. of international students

26

| No   | %    |
|------|------|
| 1483 | 70.4 |

Men

| No  | %    |
|-----|------|
| 624 | 29.6 |

Women

| Last Year (UG) |    |    |     |                       |       | This Year (UG) |    |    |     |                       |       |
|----------------|----|----|-----|-----------------------|-------|----------------|----|----|-----|-----------------------|-------|
| General        | SC | ST | OBC | Physically Challenged | Total | General        | SC | ST | OBC | Physically Challenged | Total |
| 1768           | 36 | 13 |     |                       | 1817  | 1831           | 40 | 9  |     |                       | 1880  |

Demand ratio UG: 15:1, P.G: 1.5:1 Dropout %

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

Jaypee University provides in house training in Communication skills and Personality Development, Aptitude Test Training on AMCAT pattern, Group Discussions and Personal Interview sessions .The orientation Program and webinars are conducted for the higher studies and competitions. Department also provides mentorship for the preparation of GATE,NET,GRE etc. JUIT Facilitates the professional organisations to conduct coaching for competitive exams like CAT,GATE by providing the infrastructure free of cost

No. of students beneficiaries

2000

5.5 No. of students qualified in these examinations

|             |    |           |    |      |    |        |    |
|-------------|----|-----------|----|------|----|--------|----|
| NET         | 02 | SET/SLET  | 00 | GATE | 45 | CAT    | 10 |
| IAS/IPS etc |    | State PSC |    | UPSC |    | Others | 45 |

5.6 Details of student counselling and career guidance

The Department provides career counselling to the students by the in-house faculties and by visiting experts in order to groom the students personality and persona to face the challenges of the commercial world. A counsellor regularly visits the campus to address any personal problems along with deputed faculty from the department to mentor and counsel the students for their academic and personal growth. Training and placement workshop conducted by the department – CV writing, Mock interviews and One to one counselling etc.

No. of students benefitted

460

5.7 Details of campus placement

| <i>On campus</i>                |                                 |                           | <i>Off Campus</i>         |
|---------------------------------|---------------------------------|---------------------------|---------------------------|
| Number of Organizations Visited | Number of Students Participated | Number of Students Placed | Number of Students Placed |
| 62                              | 267                             | 241                       | 10                        |

### 5.8 Details of gender sensitization programmes

There is no discrimination on the basis of gender in the university which is well advertised. The equal opportunity is given to students at all fronts of activities and the same is also applicable to faculty and staff. In case of any controversy, the university depute senior male and female faculty & staff members to look into the matter and solve it. JUIT has a gender sensitization committee as per MHRD guidelines

### 5.9 Students Activities

#### 5.9.1 No. of students participated in Sports, Games and other events

State/ University level  National level  International level

No. of students participated in cultural events

State/ University level  National level  International level

#### 5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level  National level  International level

Cultural: State/ University level  National level  International level

### 5.10 Scholarships and Financial Support

|  | Number of students | Amount      |
|--|--------------------|-------------|
| Financial support from institution                                   | 62                 | 70.96 Lakhs |
| Financial support from government                                    | 28                 | 51.86 Lakhs |
| Financial support from other sources                                 | 0                  | 0           |
| Number of students who received International/ National recognitions | 0                  | 0           |

### 5.11 Student organised / initiatives

Fairs : State/ University level  National level  International level

Exhibition: State/ University level  National level  International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed:

## **Criterion – VI**

### **6. Governance, Leadership and Management**

6.1 State the Vision and Mission of the institution

**Vision**

To become a Centre of Excellence in the field of IT and related emerging areas in education, training and research comparable to the best in the world for producing professionals who shall be leaders in innovation, entrepreneurship, creativity and management.

**Mission**

1. To develop as a benchmark University in emerging technologies;
2. To provide state of the art teaching-learning process and a stimulating R&D environment; and
3. To harness human capital for sustainable competitive edge and social relevance.

6.2 Does the Institution has a management Information System

Yes

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

The university has academic council and board of studies to monitor the academic curriculum of every department. Students groups have been prepared from each batch for taking feedback

6.3.2 Teaching and Learning

The students are assigned projects/presentations on the topics discussed in the class by the teachers. Most of the lectures and tutorials are interactive in nature.

Research paper analysis has also included in some core and elective courses to improve research acumen for the conceptualizing of BTech projects

6.3.3 Examination and Evaluation

There are three examinations T-1,T-2 and T-3 for 15,25 and 35 marks respectively for the theory classes. 25 marks are allotted to Internal assessment which can include attendance, quizzes and assignments.

6.3.4 Research and Development

The university counted research publications only in scopus and SCI indexed Journals for the accomplishment of PhD degree and for the API score of the faculty, whereas UGC approved journals and other publications are also contributing simultaneously.

### 6.3.5 Library, ICT and physical infrastructure / instrumentation

Each faculty member is provided with a computer with internet connectivity his/her office cabin. The computers are installed with the required softwares and IT tools for their use in teaching and research. Online resources of Library are accessible and subscribed.

### 6.3.6 Human Resource Management

We have Registrar to take care of nonteaching staff for their welfare and career progression. He has additional responsibility as a Student Welfare Officer and to look after all the matters associated with this concern. The director/ Dean (A&R) takes care of the faculty and ensuring the academic/ research progress. The VC, to look after all issues.

### 6.3.7 Faculty and Staff recruitment

The emphasis has been given while selecting faculty on academic excellence, Degrees of specializations received from IITs,/Best Institutes of the country or overseas ,research publications and projects granted from funding agencies. For the staff recruitment, technical experience and academic eligibility are the prerequisite. JUIT recruit faculty and staff regularly by advertising vacant positions in national News papers

### 6.3.8 Industry Interaction / Collaboration

Mock Interviews and pre-placement interaction with the industry professionals.  
Industrial visit and training after sixth semester during summer vacation.  
Sponsorship of technical projects for research and development.  
Consultancy services from the industry professionals.  
MoUs and collaboration with the industries like CSIR, CAIR, University of Florida etc

### 6.3.9 Admission of Students

All India JEE rank is required for the admission and for Biology background students seats in biotechnology/bioinformatics on the basis of 10+2 marks.

### 6.4 Welfare schemes for

|              |  |
|--------------|--|
| Teaching     | Medical Allowance ,<br>LTC, Accommodation,<br>Gratuity, EPF, Medical<br>services at University |
| Non teaching |  |
| Students     |  |

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done

Yes

No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

| Audit Type     | External |                          | Internal |           |
|----------------|----------|--------------------------|----------|-----------|
|                | Yes/No   | Agency                   | Yes/No   | Authority |
| Academic       | YES      | HP Regulatory Commission |          |           |
| Administrative | YES      | HP Regulatory Commission |          |           |

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes

Yes

No

For PG Programmes

Yes

No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

The examination structure is transparent and at the start of semester, students are informed about the schedule of examinations. The students are shown their answer scripts in every examinations, The students are also informed about the evaluation system for internal assessment

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

--NA--

6.11 Activities and support from the Alumni Association

Collaboration with Alumni Association and inputs from JUIT Alumni leads to visit by many companies for recruitment every year.

6.12 Activities and support from the Parent – Teacher Association

Though there is no formal Parent-Teacher Association; however, parents are regularly updated about the performance of their wards and they can access the information from the web kiosk.

6.13 Development programmes for support staff

Continuing education programmes for support staff was conducted in May-June 2017

#### 6.14 Initiatives taken by the institution to make the campus eco-friendly

No land filling of solid waste and disposal of household and laundry effluent through a state of the art Sewage Treatment Plant (STP). The treated water is used for gardening since the inception of the University. MSW and mess waste is sent outside the campus for treatment and disposal. Two biogas plants are installed at campus for demonstration of biogas production from biodegradable waste to sensitize the residents and students towards need of renewable energy. Composting machines (02 in number) are installed at campus. Vermicompost beds are also installed at Campus. Campus is a green campus with plenty of trees.

### Criterion – VII

#### 7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

The PhD scholars are advised for publications in indexed referred journals and for writing project proposals. The faculty and scholars are motivated for the protection of their intellectual property in any form of IPR. Regular student Counselling is carried out at faculty and administration level.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Regular monitoring was done for the academic performance of the students and teaching faculty. Outcome based work plan was designed for the accomplishment of all tasks.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

1. Curricular Aspects
2. Development of Infrastructure.

*\*Provide the details in annexure (annexure need to be numbered as i, ii,iii)*

7.4 Contribution to environmental awareness / protection

The university regularly monitor all the aspects of environment safety and cleanliness . University management and JYC environmental club hosts many drives for providing awareness and measures for this concern. The University is its own STP and rain water harvesting system. University has also a small biogas plant Regular cleaning drives are organised by university under swatch Bharat Abhiyaan There is proper waste management in University. E-waste and hazardous waste are disposed off by authorised agencies.

7.5 Whether environmental audit was conducted?

Yes

No

 N

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

The students are provided with very friendly environment and monitored for academic and personal well being for their overall development. Many sports and recreational events are organised and provide platform for interactions at all levels. They are encouraged for other social activities.

**8. Plans of institution for next year**

1. Increase in the strength of students and faculties.
2. Increase the research labs infrastructure.
3. Encouragement for industrial interactions for projects and research.
4. Planning for floating new PG courses

Name *Prof. Sunil Kumar Khah*

*Sunil*  
23/3/2018

Signature of the Coordinator, IQAC

Name *Prof. Vinod Kumar*

*Vinod*  
23/3/2018

Signature of the Chairperson, IQAC

\*\*\*



## ACADEMIC CALENDAR 2016 – 17

| SER. NO.                                     | EVENT   | ODD SEMESTER<br>(Jul-Dec 2016)                           | EVEN SEMESTER<br>(Jan-Jun 2017) |
|--|---|--|---------------------------------|
| <b>Registration</b>                          |   |  |                                 |
| 1.   | UG 2 <sup>nd</sup> Yr, UG 3 <sup>rd</sup> Yr & M. Tech 1 <sup>st</sup> Yr   | 25 Jul 2016  | 16 Jan 2017                     |
|  | UG 4th yr (Incl. DD), DD 5 <sup>th</sup> yr-2010 batch & M. Tech 2 <sup>nd</sup> Year, All Ph.D.  | 26 Jul 2016  | 17 Jan 2017                     |
|  | Registration for Supplementary Examination 2015   | 16 -25 Jul 2016  |                                 |
|  | UG 1 <sup>st</sup> Yr   | 27 Jul 2016 (Fresh Batch)                                | 18 Jan 2017                     |
|  | <b>Late Registration</b> - - Within one week from date of registration, after due approval and with late fee. No Concession on attendance. Late fee and late registration is not applicable for 1st year (New entrants) in Odd Semester only (1 <sup>st</sup> Sem). |  |                                 |
| <b>Orientation / Commencement of Classes</b> |   |  |                                 |
| 2.   | First year orientation (Fresh Batch)  | 28 Jul 2016  | --                              |
|  | Commencement of Classes for all batches.  | Next day of Registration                                 | Next day of Registration        |
|  | First year classes (new batch)  | 29 Jul 2016  |                                 |
| 3.   | <b>Supplementary Examination 2016</b>   | 27 Jul -1Aug 2016  |                                 |
| 4.   | Ph.D. DPMC Meeting (for new scholars)   | Latest By 10 days of enrollment (latest by 03 Aug. 2016) | Latest By 10 days of enrollment |
| 5.   | Diksha  | 28 Aug 2016  |                                 |
| 6.   | Summer Industrial Trg. Report Submission to Registry  | 01 Sept 2016   |                                 |
| 7.   | Attendance Review before T1 exam  | 04 Sep 2016  | 18 Feb 2017                     |
| <b>T1 Examination &amp; Results</b>          |   |  |                                 |
| 8.   | Examination Schedule  | 08 - 13 Sep 2016   | 20-25 Feb 2017                  |
|  | Showing of Evaluated Answer Sheets to students (Latest by)  | 20 Sep 2016  | 04 Mar 2017                     |
|  | Results Uploading on System (Latest by)   | 24 Sep 2016  | 06 Mar 2017                     |
|  | <b>Mid-Semester Viva/Test for Labs (incl. M. Tech) To be decided under Departmental Heads between T1 &amp; T2.</b>  | Result uploaded before T2                                | Result uploaded before T2       |
|  | <b>Mid-Term Viva for Major Projects (incl. M. Tech 3<sup>rd</sup> Sem. only) To be decided under Departmental Heads between T1 &amp; T2.</b>  | Result uploaded before 22 Nov 2016                       | Result uploaded before T2       |
| 9.   | Attendance Review before T2 exam  | 19 Oct 2016  | 29 March 2017                   |
| 10.  | Semester Break – Diwali (Odd) (Incl. Sundays) @   | 28 Oct - 05 Nov 2016                                     |                                 |
|  | Holi (Even) (Incl. Sundays) @   |  | 12-14 Mar 2017                  |
| <b>T2 Examination &amp; Results</b>          |   |  |                                 |
| 11.  | Examination Schedule  | 21 - 27 Oct 2016   | 31 Mar-04 Apr 2017              |
|  | Showing of Evaluated Answer Sheets to students (Latest by)  | 10 Nov 2016  | 10 Apr 2017                     |
|  | Parakram 2016 ( Sports meet)  | 12-13 Nov 2016   |                                 |
|  | Results Uploading on System (Latest by)   | 12 Nov 2016  | 12 Apr 2017                     |
|  | <b>End-Semester Seminar / Viva for Labs - to be decided under departmental heads.</b>   | Result uploaded before T3 Exam                           | Result uploaded before T3 Exam  |
| 12.  | <b>Le-Fiestus 2017</b>  |  | 28-29 April, 2017               |
| 13.  | <b>Make-up Examination (All)</b>  | 18 - 22 Nov 2016   | 20-24 April 2017                |
| <b>Project / Dissertation activity</b>       |   |  |                                 |
| 14.  | Submission of Project (B.Tech & M.Tech)   | 05 Dec 2016  | 01 May 2017                     |
| 15.  | Students' Feed Back Collection by   | 08 Dec 2016  | 08 May 2017                     |
| 16.  | Classes to be over  | 10 Dec 2016  | 17 May 2017                     |
| 17.  | Attendance Review Before T-3 Exam   | 12 Dec 2016  | 18 May 2017                     |

|  |   |                           |   |
|--|---|---------------------------|---|
| 18.                                      | Makeup day for disrupted classes  | 11 - 12 Dec 2016          | 19-20 May 2017                                  |
| <b>T-3 Examination</b>                   |   |                           |   |
| 19.                                      | Examination Schedule  | 15 - 24 Dec 2016          | 22 - 27 May 2017                                |
|  | Showing of Evaluated Answer Sheets to students  | Latest by 28 Dec 2016     | 02 Jun 2017                                     |
| <b>Project / Viva</b>                    |   |                           |   |
| 20.                                      | Final Project Viva (B.Tech & M. Tech)   | 24 Dec 2016 - 27 Dec 2016 | 03-08 May 2017                                  |
|  | End semester Ph.D seminars  | 26 Dec 2016 - 27 Dec 2016 | 29 May -03 Jun 2017                             |
| <b>Exam Results</b>                      |   |                           |   |
| 21.                                      | Deptt. Board of Examiners Meeting   | 29 Dec 2016               | 05 Jun 2017 (FN)                                |
|  | Meeting of University result Committee (for all courses)  | 29 Dec 2016               | 06 Jun 2017 (AN)                                |
|  | Freezing the grades/Submission of Final Grades to Registrar   | 30 Dec 2016 (FN)          | 07 Jun 2017 (FN)                                |
|  | Declaration of Results by Registrar   | 31 Dec 2016 (AN)          | 07 Jun 2017 (AN)                                |
| <b>Vacations &amp; Summer Internship</b> |   |                           |   |
| 22.                                      | Vacation - Except for Final year students   | 25 Dec 2016-15 Jan 2017*  | 28 May - 17 Jul 2017                            |
|  | Vacation for Final year students  | 28 Dec 2016-16 Jan 2017*  | 28 May - 17 Jul 2017                            |
|  | Summer Internship (Ind. Trg.) Period  | --                        | 29 May - 17 Jul 2017<br>(for 6 or more weeks)   |
| <b>Supplementary Examination</b>         |   |                           |   |
| 23.                                      | Registration for Supl Exam  | 01 Jan 2017 – 09 Jan 2017 | 09Jun - 08 July 2017                            |
|  | Supplementary Exam Schedule   | 19-22 Jan 2017            | 09 - 12 Jul 2017                                |
|  | Showing of Evaluated Answer Sheets to students (latest by)  | 24 Jan 2017               | 15 Jul 2017                                     |
|  | Submission of Suppl. Exam Grades by Faculty and Freezing  | 25 Jan 2017               | 16 Jul 2017                                     |
|  | University meeting for finalization Suppl. Results  | 27 Jan 2017(FN)           | 17 Jul 2017 (FN)                                |
|  | Decl. of Results of Suppl. Exam   | 27 Jan 2017(AN)           | 17 Jul 2017 (AN)                                |
| <b>Summer Semester – 2016</b>            |   |                           |   |
| 24.                                      | Registration for Summer Sem. for backlog students all years   | --                        | 09Jun 2017                                      |
|  | Summer Semester for Dual- Degree B.Tech-M.Tech (Addl Sem) and backlog students all years (Details separately) | --                        | 10 Jun - 11 Jul 2017                            |
| 25.                                      | Finalization of progression of 1sr yr students into 2nd yr. and their registration in relevant Sem.           | --                        | After declaration of Supplementary Exam results |
| 26.                                      | Next Semester Registration begins (Academics Session 2017-18)   | --                        | 18 Jul 2017 onwards                             |

\* The vacation ending date shall be one day prior to the date of registration for respective batches

@ No mid-semester breaks for Teaching Assistants, JRF's, MEMS Project staff & PhD Scholars.

# ACADEMIC YEAR 2016-17

## LIST OF HOLIDAYS

| ODD SEMESTER 2016              |                        | EVEN SEMESTER 2017 |                 |
|--------------------------------|------------------------|--------------------|-----------------|
| 1. Id-ul-Fitr*                 | 06 Jul 16 (Wed)        | 1. Republic Day    | 26 Jan 17 (Thu) |
| 2. Independence Day            | 15 Aug 16 (Mon)        | 2. Maha Shivratri  | 24 Feb 17 (Fri) |
| 3. Raksha Bandhan              | 18 Aug 16 (Thu)        | 3. Holi            | 13 Mar 17 (Mon) |
| 4. Janmashtmi                  | 25 Aug 16 (Thu)        | 4. Ram Navmi       | 05 Apr 17 (Wed) |
| 5. Gandhi Jayanti              | 02 Oct 16 (Sun)        | 5. Id-ul-Fitr *    | 26 Jun 17 (Mon) |
| 6. Dushehra                    | 11 Oct 16 (Tue)        |                    |                 |
| 7. Diwali                      | 29-30 Oct 16 (Sat-Sun) |                    |                 |
| 8. Govardhan Puja              | 31 Oct 16 (Mon)        |                    |                 |
| 9. Guru Nanak Jayanti          | 14 Nov 16 (Mon)        |                    |                 |
| 10. Christmas                  | 25 Dec 16 (Sun)        |                    |                 |
| *Subject to visibility of Moon |                        |                    |                 |

### Student Vacation (Odd Sem)

|                                       | From        | To           |
|---------------------------------------|-------------|--------------|
| Mid-semester break (Diwali)           | 28 Oct 2016 | 05 Nov 2016  |
| Vacation (except Final year students) | 25 Dec 2016 | 15 Jan 2017* |
| Vacation for Final year students      | 28 Dec 2016 | 16 Jan 2017* |

### Student Vacation (Even Sem)

|  |             |             |
|--|-------------|-------------|
| Mid-semester break (Holi)                    | 12 Mar 2017 | 14 Mar 2017 |
| Summer Vacation (except Final year students) | 28 May 2017 | 17 Jul 2017 |
| Summer Vacation (Final year students)        | 28 May 2017 | 17 Jul 2017 |

\* The vacation ending date shall be one day prior to the date of registration for respective batches

### Faculty Vacation

| Faculty Vacations(max 60 days) | From         | To           |
|--------------------------------|--------------|--------------|
| Faculty Vacations (Diwali)     | 28 Oct 2016  | 05 Nov 2016  |
| Faculty Vacations (Winter)     | 1 Jan 2017   | 14 Jan 2017* |
| Faculty Vacations (Holi)       | 13 Mar 2017  | 14 Mar 2017  |
| Faculty Vacations (Summer)     | 08 June 2017 | 17 Jul 2017  |

**FACULTY FEEDBACK (2016-17)**

| S.NO | SUBJECTCODE | SUBJECT                             | FACULTY NAME          | REGCOUNT | OAR  |
|------|-------------|-------------------------------------|-----------------------|----------|------|
| 1    | 10B17CE573  | COMPUTER AIDED PLANNING & COSTING   | AAKASH GUPTA          | 32       | 8.1  |
| 2    | 10M11CE112  | ESTIMATING & COSTING                | ABHILASH SHUKLA       | 10       | 9.53 |
| 3    | 13B11BT111  | FUNDAMENTAL BIOLOGY                 | ABHISHEK CHAUDHARY    | 4        | 9.41 |
| 4    | 10M11EC113  | ADVANCED TELECOMMUNICATION NETWORKS | ALOK KUMAR            | 27       | 7.34 |
| 5    | 10B1WCI737  | IMAGE PROCESSING                    | AMIT KUMAR SINGH      | 26       | 8.92 |
| 6    | 10B11PD311  | MANAGERIAL ECONOMICS                | AMIT SRIVASTAVA       | 124      | 7.06 |
| 7    | 12B1WCI733  | ADVANCED JAVA                       | AMOL VASUDEVA         | 20       | 8.33 |
| 8    | 13M11BT111  | ADVANCES IN MOLECULAR CELL BIOLOGY  | ANIL KANT             | 6        | 7.29 |
| 9    | 10B13CE742  | AIR POLLUTION MONITORING & CONTROL  | ANIRBAN DHULIA        | 32       | 8.95 |
| 10   | 12B1WCI734  | C# AND VB.NET                       | ARVIND KUMAR          | 31       | 8.48 |
| 11   | 10B11CE312  | FLUID MECHANICS                     | ASHISH KUMAR          | 69       | 7.89 |
| 12   | 10M11EC111  | ADVANCED COMMUNICATION SYSTEMS      | ASHWANI SHARMA        | 13       | 6.41 |
| 13   | 10B17CE573  | COMPUTER AIDED PLANNING & COSTING   | BIBHAS PAUL           | 23       | 8.41 |
| 14   | 10B17CE372  | FLUID MECHANICS LAB                 | CHANDRA PAL GAUTAM    | 49       | 8.49 |
| 15   | 10B11PH111  | PHYSICS-I                           | DHEERAJ SHARMA        | 113      | 9.16 |
| 16   | 15B17BT571  | BIOPROCESS ENGINEERING LAB          | GARLAPATI VIJAY KUMAR | 37       | 7.16 |
| 17   | 13M11BT115  | RESEARCH METHODOLOGY                | GOPAL SINGH BISHT     | 15       | 7.48 |
| 18   | 14B1WBT734  | TRADITIONAL FOODS                   | GUNJAN GOEL           | 14       | 8.35 |
| 19   | 10B11BT514  | IMMUNOLOGY                          | HARISH CHANGOTRA      | 25       | 7.45 |
| 20   | 10B1WBT735  | INDUSTRIAL PLANT TISSUE CULTURE     | HEMANT SOOD           | 33       | 7.49 |
| 21   | 10B17CI171  | COMPUTER PROGRAMMING LAB            | HEMRAJ SAINI          | 47       | 7.68 |
| 22   | 13B11BI112  | CELL AND MOLECULAR BIOLOGY          | JATA SHANKAR          | 12       | 8.13 |
| 23   | 13M11BT112  | ADVANCED BIOINFORMATICS             | JAYASHREE RAMANA      | 9        | 7.42 |
| 24   | 10B11BT312  | BIOCHEMISTRY                        | JITENDRAA VASHISTT    | 52       | 7.65 |
| 25   | 13M1WEC334  | ANTENNA THEORY AND TECHNIQUES       | MEENAKSHI SOOD        | 13       | 8.61 |
| 26   | 10B17EC574  | COMMUNICATION SYSTEMS LAB           | MOHIT GARG            | 53       | 6.62 |
| 27   | 10B11EC111  | ELECTRICAL CIRCUIT ANALYSIS         | MOHIT GARG            | 52       | 7.25 |
| 28   | 10B17EC171  | ELECTRICAL CIRCUITS LAB             | MUNISH SOOD           | 61       | 7.1  |
| 29   | 10B11MA112  | BASIC MATHEMATICS-I                 | NEEL KANTH            | 45       | 8.99 |
| 30   | 10B11PD511  | SOCIAL AND LEGAL ISSUES             | NEENA JINDAL          | 25       | 7.05 |
| 31   | 10B11EC514  | COMMUNICATION SYSTEMS               | NEERU SHARMA          | 40       | 7.92 |
| 32   | 10B13CE735  | DAM AND RESERVOIR DESIGN            | NIRAJ SINGH PARIHAR   | 43       | 8.07 |

|    |            |   |                      |     |      |
|----|------------|---|----------------------|-----|------|
| 33 | 10B17PH171 | PHYSICS LAB-I                             | PANKAJ SHARMA        | 132 | 8.25 |
| 34 | 10B17EC574 | COMMUNICATION SYSTEMS LAB                 | PARDEEP GARG         | 56  | 7.54 |
| 35 | 10B17CI171 | COMPUTER PROGRAMMING LAB                  | PARDEEP KUMAR        | 33  | 8.04 |
| 36 | 10B11BT311 | THERMODYNAMICS & CHEMICAL PROCESSES       | POONAM SHARMA        | 43  | 8.46 |
| 37 | 10B17CI571 | OPERATING SYSTEMS LAB                     | PRADEEP KUMAR GUPTA  | 47  | 6.89 |
| 38 | 10B11MA312 | NUMERICAL METHODS                         | PRADEEP KUMAR PANDEY | 80  | 7.95 |
| 39 | 10B11CI111 | INTRODUCTION TO COMPUTERS AND PROGRAMMING | PRADEEP KUMAR SINGH  | 145 | 8.54 |
| 40 | 10B17EC171 | ELECTRICAL CIRCUITS LAB                   | PRAGYA GUPTA         | 26  | 7.84 |
| 41 | 10B17CI407 | MICROPROCESSORS AND CONTROLLERS LAB       | PUNIT GUPTA          | 55  | 7.41 |
| 42 | 10B11MA111 | MATHEMATICS-I                             | R.S. RAJA DURAI      | 115 | 7.16 |
| 43 | 16B11PH112 | BASIC ENGINEERING AND APPLIED PHYSICS     | RAGINI RAJ SINGH     | 47  | 7.83 |
| 44 | 14B17BI371 | MICROBIOLOGY & IMMUNE SYSTEM LAB          | RAHUL SHRIVASTAVA    | 8   | 8.34 |
| 45 | 14M31CE115 | SOLID WASTE MANAGEMENT                    | RAJIV GANGULY        | 19  | 8.71 |
| 46 | 10B11EC311 | ELECTRICAL MACHINES AND INSTRUMENTS       | RAJIV KUMAR          | 49  | 6.11 |
| 47 | 10B17CI571 | OPERATING SYSTEMS LAB                     | RAJNI MOHANA         | 39  | 6.76 |
| 48 | 10B11MA111 | MATHEMATICS-I                             | RAKESH KUMAR         | 115 | 7.56 |
| 49 | 15M1WCI331 | ADVANCED THEORY OF COMPUTATION            | RAVINDARA BHATT      | 16  | 8.33 |
| 50 | 13B18CI281 | BASIC COMPUTER PROGRAMMING LAB            | RUCHI VERMA          | 19  | 7.29 |
| 51 | 10B11CI312 | DATABASE SYSTEMS                          | RUHI MAHAJAN         | 58  | 8    |
| 52 | 10B17EC573 | ELECTROMAGNETICS LAB                      | SALMAN RAJU TALLURI  | 21  | 6.51 |
| 53 | 10B13BT832 | INDUSTRIAL ENZYMES                        | SAURABH BANSAL       | 10  | 7.31 |
| 54 | 10B11CE515 | CONSTRUCTION TECHNOLOGY & MANAGEMENT      | SAURABH RAWAT        | 45  | 9.24 |
| 55 | 10M11CI112 | ADVANCED COMPUTER NETWORKS                | SHAILENDRA SHUKLA    | 6   | 9.54 |
| 56 | 10B11EC401 | DIGITAL ELECTRONICS                       | SHRUTI JAIN          | 78  | 8.37 |
| 57 | 14B1WEC733 | COGNITIVE RADIO NETWORKS                  | SHWETA PANDIT        | 49  | 6.38 |
| 58 | 10M11CI111 | ADVANCED DATA STRUCTURES                  | SUMAN SAHA           | 13  | 9.05 |
| 59 | 10B11EC512 | DIGITAL SIGNAL PROCESSING                 | SUNIL DATT SHARMA    | 68  | 6.98 |
| 60 | 10B17PH171 | PHYSICS LAB-I                             | SUNIL KUMAR KHAH     | 73  | 9.04 |
|    |            |   |                      |     |      |

## ANNEXURE – (iii)

The two best practices which have contributed to better academic and administrative functioning of the university are:

1. Curricular Aspects
2. Development of Infrastructure and Learning Resources

The presentation of these two best practices in the requisite format is as follows:

### **Best Practice-1**

#### **1. Title of the Practice**

Curricular Aspects

#### **2. Objectives of the Practice**

The objective of the Practice is to ensure the quality sustenance and quality enhancement. To accomplish this, various measures are undertaken by the University as and when required, keeping in view the curriculum perspective

#### **3. The Context**

The best practice was initiated in the context of providing to students an environment of Sustained Disciplined Work, Self Learning, Flexibility in Pace of Learning, to give design orientation while remaining quality conscious and inculcate the skills of cooperative working.

#### **4. The Practice**

##### **Sustained Disciplined Work**

A typical semester is designed in an intensive manner with an emphasis on regular and continuous work. The Evaluation System is designed to encourage this concept.

##### **Self Learning**

In its attempt to move away from teacher-centred learning to student-specific learning, the curriculum actively encourages self learning. For this purpose 15% of the time allotted to theory and tutorial classes is earmarked for independent study.

##### **Flexibility in Pace of Learning**

The evaluation system makes special provision for different paces of learning for different students. Thus, while specifying a time limit within which tutorial/practical work must be completed, there is scope to submit such work beyond the deadline.

##### **Design Orientation**

The curriculum is structured so that basic implementation skills and design skills are interwoven together. Thus, for example, a student of Programming Systems learns not only how to program but also how to design programmes.

##### **Quality Consciousness**

Students should be aware of the importance of continuous improvement, building zero-

defect products and doing quality work. All courses will emphasize on quality as an integral part of teaching.

### **Co-operative Working**

Given the complexity of technological problems of today large teams must work together to provide solutions. Thus, it is very important to learn group dynamics and to work in teams.

Describe the practice and its uniqueness in the context of India higher education. What were the constraints / limitations, if any, faced (in about 400 words)?

### **5. Evidence of Success**

As a result of adoption of this best practice, university has been able to produce technical manpower conforming to global standards, which is reflected by university's placement record showing increase in placement offers with better packages. The students are able to acquire skills of life-long learning and cooperative work culture. Besides, the curriculum of the university has witnessed global acceptance as evident by many of our students getting admitted in various foreign universities of repute for higher studies.

### **6. Problems Encountered and Resources Required**

As such the university did not encounter any major problem in adopting and implementing this best practice. The resources turned out to be well within the availability of the university.

### **7. Notes**

Optional. Please add any other information that may be relevant for adopting/ implementing the Best Practice in other institutions (in about 150 words).

## **Best Practice-2**

### **1. Title of the Practice**

Development of Infrastructure and Learning Resources

### **2. Objectives of the Practice**

To create learning ambience with respect to physical infrastructure and learning resources LRC & ICT.

### **3. The Context**

The context for the best practice has been the aim of the university to provide modern construction and infrastructure of international standards, excellent academic facilities and congenial learning environment. Also, to create stock of learning resources to facilitate academic and research pursuits of the university supported by latest IT resources and technology.

### **4. The Practice**

The university has provided the best possible facilities in terms of infrastructure required for teaching-learning process and also for administrative purposes. The lecture theatres, classrooms, laboratories and tutorial rooms, office spaces are built keeping in mind the limitations posed by hilly terrain and space restrictions, yet making it highly conducive for overall academic environment of global standards. Besides offering the best hostel facilities to students, residential facilities to faculty and staff, university also boasts of its sports

grounds and world class auditorium.

The university has a spacious and well stocked LRC with e-journals, databases and fully automated functioning. The LRC users are provided open access to the resources available. At any time about 300 users can sit and work in the library. The circulation of Books is fully automated. The security system i.e. the 3M anti-theft electromagnetic security has been installed at the main gate of LRC to check any pilferage.

The ICT support services include well equipped technology/science labs and workshops, computer labs with latest hardware/software, science/Technology/

Computer labs equipped with latest equipment/machines/ hardware, etc. and a collection of licensed software. The whole university campus is network and wi-fi enabled. The lecture theatres, classrooms, laboratories and tutorial rooms, office spaces are fitted with latest ICT facilities for supplementing teaching-learning process.

In addition to this the university uses an integrated software 'campus connect' for all functions such as financial accounting/controlling, materials management, human capital management, campus management, student life cycle management including admissions, registration, evaluation activities, etc. The university also has a dedicated power backup to avoid disruption of teaching/learning.

#### **5. Evidence of Success**

The excellent infrastructure has been able to attract students from almost all corners of the country. The LRC has witnessed about 21000 walk ins per month, which is quite inspiring. The average number of login to e-resources exclusively through LRC is about 1000 per month. Easy dissemination of knowledge/information through ICT starting from lecture room experience to exams has greatly helped students and concerned parents.

#### **6. Problems Encountered and Resources Required**

The greatest problem encountered has been in infrastructure development due to hilly terrain, rural surroundings and limitation of space available. In spite of limited space the university has managed efficiently all its academic infrastructure.