

Submitted vide letter number AICTE-JUIT/2006/02 Dated 4th May 2014  
**AICTE : MANDATORY DISCLOSURE**

**NAME OF THE INSTITUTE:**

1. **Name** : Jaypee University of Information Technology, Established by H.P. State Legislatures Act No. 14 of 2002  
(Approved by UGC under Section 2(f) of the UGC Act)

2. **Address**  
**Location** : Waknaghat, P.O. Waknaghat, Teh. Kandaghat  
**Pin code** : 173234  
**District** : Solan  
**State** : Himachal Pradesh

3. **Tele / Fax / Website**

**Vice Chancellor** : (O) 01792-239201 Fax : 01792-239365  
(R) 01792-239279  
**Registrar** : (O) 01792-239203  
(R) 01792-239272

**EPBAX** : 01792-257999 (30 Lines)  
**Fax** : 01792-245362  
**Website** : www.juit.ac.in

4. **Name & Address of Vice Chancellor**

Prof. (Dr.) Vinod Kumar,  
Jaypee University of Information Technology,  
Waknaghat, PO-Waknaghat, Distt-Solan,  
Himachal Pradesh. Pin - 173234

5. **NAME OF AFFILIATING UNIVERSITY**

The Institution is a self financing, State University. Set up by Act No. 14 of 2002 vide Extraordinary Gazette notification of Government of Himachal Pradesh dated May 23, 2002. Approved by the University Grants Commission under section 2(f) of the UGC Act. The sponsoring body of the University is Jaiprakash Sewa Sansthan (JSS). JUIT is a member of the Association of Indian Universities since 2002.

**GOVERNANCE**

6. **OFFICERS OF THE UNIVERSITY**

Chancellor - H.E. Acharya Devvrat, Governor of HP  
Pro-Chancellor - Shri Manoj Gaur, Executive Chairman, Jaiprakash Associates Limited  
Vice Chancellor - Prof. (Dr.) Vinod Kumar  
Registrar - Maj Gen Rakesh Bassi (Retd.)

## 7. AUTHORITIES OF THE UNIVERSITY

### [a] GOVERNING COUNCIL

#### **Pro-Chancellor - Chairman**

Shri Manoj Gaur  
Executive Chairman  
Jaiprakash Associates Limited

#### **Two Members of the Trust nominated by the Pro-Chancellor**

Shri Sunil Sharma - Member  
Executive Vice Chairman  
Jaiprakash Associates Ltd.

Shri Sunny Gaur - Member  
Managing Director (Cement)  
Jaiprakash Associates Ltd.

#### **Two Representative of the collaborating Universities**

Prof. William Webster - Member  
Ex-Acting Vice Chancellor (Budget & Finance)  
University of California Berkeley, USA

Prof. Sartaj Sahni - Member  
Distinguished Professor  
University of Florida at Gainesville, USA

#### **Three Distinguished Academicians/Professionals nominated by the Chancellor in consultation with the Pro-Chancellor**

Prof. Onkar Singh - Member  
Vice Chancellor  
MMM University of Technology, Gorakhpur

Prof. P.K. Jain - Member  
Director  
IIITDM, Jabalpur

Prof. Manoj Arora - Member  
Vice-Chancellor/Director  
PEC Technical University, Chandigarh

#### **Two Experts Representing Other Disciplines such as Finance, Law and Management nominated by the Pro-Chancellor**

Sh. S.S. Mittal - Member  
Advocate, Shimla

Sh. Pankaj Gaur - Member  
Jt. Managing Director (Construction)  
Jaiprakash Associates Ltd.

### **Vice Chancellor of the University**

Prof. Vinod Kumar - Member

### **One Head of Another Institute/Laboratory of the Trust**

Prof. S.C. Saxena - Member  
Vice-Chancellor  
JIIT, Noida

### **Two Deans of the University by Rotation**

Prof. Samir Dev Gupta - Member

Vacant

### **Three Secretaries of Government of Himachal Pradesh**

Secretary (IT), Govt. of HP - Member

Secretary (Education), Govt. of HP - Member

Secretary (Technical Education), Govt. of HP - Member

### **Three Representatives of the Industry Nominated by the Pro-Chancellor**

Sh. Alok Gaur - Member  
Head, HR Department  
Jaiprakash Associates Limited

Sh. C.S. Verma - Member  
Former Chairman  
Steel Authority of India Limited  
(4086, Pocket C4, Vasant Villas, Vasant Kunj,  
New Delhi – 110070)

Sh. B Prasada Rao - Member  
Former Chairman & Managing Director, BHEL  
699, Mahavir Prasad Block,  
Asian Games Village Complex,  
New Delhi - 110049

## **Non Member Secretary**

Maj Gen Rakesh Bassi, SM (Retd.)  
Registrar

### [b] **EXECUTIVE COUNCIL**

#### **A) CHAIRMAN**

The Vice Chancellor of the University

Prof. (Dr.) Vinod Kumar

#### **B) MEMBERS**

##### **i) Two Members of Governing Council nominated by the Pro-Chancellor**

a. Sh. Sunil Sharma  
Executive Vice Chairman  
Jaiprakash Associates Ltd.

b. Sh. S.S. Mittal  
Advocate  
Shimla

##### **ii) One Dean of the University**

Prof. Samir Dev Gupta  
Dean (Academic & Research)

##### **iii) One Academician of repute nominated by the Pro-Chancellor**

Prof. S.C. Saxena  
Vice Chancellor  
Jaypee Institute of Information Technology (JIIT)  
Noida

#### **C) NON- MEMBER SECRETARY**

Maj Gen Rakesh Bassi, SM (Retd.)  
Registrar & Dean of Students

### [c] **ACADEMIC COUNCIL**

The Academic Council is the premier and august body of scholars, which decides and monitors the implementation of Academic policies and profile of the University. The powers and functions of the Council are

defined in the Regulations of the Institute. Amongst other major functions, the Academic Council controls and approves the courses in various curricula, defines the thrust areas, objectives and constantly reviews the activities of the Departments to ensure improvements in standards.

#### **CHAIRMAN**

##### **The Vice Chancellor of the University**

Prof. (Dr.) Vinod Kumar

#### **MEMBERS**

**i) Two Professors other than Heads of Departments by Rotation and by Seniority**

Prof. (Dr.) Sunil Kumar Khah – Physics & Materials Science

Prof. (Dr.) Veeresh Gali – Civil

**ii) Two Distinguished Academicians nominated by the Pro-Chancellor**

Prof. Manoj Arora,

Vice Chancellor,

PEC University, Chandigarh

Prof. Padam Kumar,

Dean (R&D)

Jaypee Institute of Information Technology (JIIT), Noida

**iii) Two Industry Professionals nominated by the Pro – Chancellor**

Sh. Sunil Sharma

Executive Vice Chairman

Jaiprakash Associates Ltd.

Sh. Vinod Sharma

Executive President

Jaiprakash Associates Ltd.

**iv) One Member from amongst the Heads of other Institution of the Trust**

Prof. S.C. Saxena

Vice Chancellor

Jaypee Institute of Information Technology (JIIT), Noida

**v) The Deans of all Faculty of the University**

Prof. Samir Dev Gupta

Dean (Academic & Research)

**vi) Heads of the Departments/ Centres of the University**

a) Prof. (Dr.) Karanjeet Singh, HOD, Dept. of Mathematics

- b) Prof. (Dr.) P.B. Barman, HOD, Dept. of Physics & Material Science
- c) Prof. (Dr.) Brig. S.P. Ghrera (Retd.), HOD, Dept. of CSE & IT
- d) Prof. (Dr.) Ashok Kumar Gupta, HOD, Dept. of Civil Engineering
- e) Prof. (Dr). Sudhir Kumar, HOD, Dept. of BT&BI
- f) Dr. Anupriya Kaur, HOD, Dept. of HSS

**NON – MEMBER SECRETARY**

Maj Gen Rakesh Bassi, SM (Retd.)  
Registrar & Dean of Students

[d] **FINANCE COMMITTEE**

**CHAIRMAN**

**The Vice Chancellor of the University**

Prof. (Dr.) Vinod Kumar

**MEMBERS**

**i) One Nominee of the Pro-Chancellor**

Sh. Sunil Sharma  
Executive Vice Chairman  
Jaiprakash Associates Ltd.

**ii) One Nominee of the Governing Council**

Maj Gen Rakesh Bassi, SM (Retd.)  
Registrar & Dean of Students

**iii) One Dean (by rotation) on the basis of Seniority**

Prof. Samir Dev Gupta  
Dean (Academic & Research)

**NON-MEMBER SECRETARY**

**The Finance Officer of the University**

Sh. Hemant Vyas  
Finance Officer

[e] **CONTROLLER OF EXAMINATION:**

Prof. Dr. Sunil Kumar Khah

[f] **BOARDS OF STUDIES**

- Electronics & Communication Engineering
- Computer Science & Engineering and Information Technology
- Bioinformatics/Biotechnology
- Civil Engineering
- Physics & Materials Science
- Mathematics
- Humanities & Social Sciences

8. **ORGANISATIONAL CHART AND PROCESS:**

<http://www.juit.ac.in/attachments/ORGANIZATION%20CHART.pdf>

(a) **Chancellor :**

The Chancellor by virtue of his office is the Head of the University and presides over the convocations of the Institute. The Governor of Himachal Pradesh is the Chancellor of the University.

(b) **Pro-Chancellor :**

In the absence of the Chancellor, the Pro-Chancellor presides over the Convocation of the University. He presides over the meetings of the Governing Council and is the Managing Trustee of Jaiprakash Sewa Sansthan (JSS) the Sponsoring Body of the University.

(c) **Vice Chancellor :**

The Vice Chancellor is a whole time salaried officer of the University and is appointed by the Chancellor from a panel of three names suggested by a Search Committee and presides over the Executive Council, Academic Council and the Finance Committee of the University.

(d) **Governing Council :**

The Governing Council is the principal policy defining body of the University. It is a compact and homogeneous body enabling it to provide new directions and focus to the University and monitor how well they are implemented and based on the progress assesses how the considered decisions is able to more effectively take the University forward in today's knowledge explosive world more efficiently.

(e) **Executive Council :**

The Executive Council is the executive body of the University. Its constitution and the terms of the office of its members, other than ex-officio members, are as prescribed in the Statutes.

(f) **Finance Committee :**

The Finance Committee is responsible for budgeting and management of funds of the University. It examines, scrutinizes proposals, annual accounts, estimates and fixes ceiling on expenditures both recurring and non-recurring.

9. **Nature and Extent of Involvement of Faculty and Students in Academic Affairs / Improvements**

(a) **The Philosophy behind Faculty Student Involvement:**

The University has been concentrating on Education, Training & Research in areas of Information Technologies, Biotechnology, Civil Engineering and IT-enabled Services. These are globally recognized as emergent areas of rapid growth in the next two decades. India is already recognized as a source and repository for highly trained manpower in IT related areas and is fast developing in Biotechnology applications. Graduates will have ample opportunity for employment in all these areas, and in contributing to

national prosperity and global competitiveness of Indian industry. The University is committed to developing excellence in education, training and research. Institutionalized attempts are being made to promote and foster excellence in developing knowledge, learning and problem solving skills in all our students with positive attitudes and commitment to values in every student, faculty and staff.

- (b) At JUIT, special emphasis has been placed on developing an environment highly conducive to building of a solid foundation of knowledge, personality development, confidence building, pursuit of excellence, self-discipline and enhancement of creativity through motivation and drive, which helps to produce professionals who are well trained for the rigors of professional and social life. All Students are encouraged to make life outside the classroom vibrant and enjoyable by engaging themselves in multiple extracurricular areas. Fun creativity, competition, distinction, establishing relationships with fellow students and others in the community and ultimately enhancing the value of their educational experience, is at the heart of all extracurricular activities.
- (c) Concept of Faculty Involvement: The faculty focuses on mentoring, guiding and counselling the students for strengthening their critical thinking, problem solving, analysis, design, team work, communication skills and preparing students for life long learning. The faculty uses innovative techniques, interactive lectures, guided case studies, literature survey, regular lab assignments, project work for critical and creative thinking. As a pedagogical practice starting from first year courses itself, students are required to explore, study, summarise, critique, validate and evaluate classical as well as current research literature published by eminent research publishers. The faculty stresses on learner centric, active and collaborative learning. Labs are used for developing skills to use and apply various theoretical concepts with professional competence. Every student has to undertake a Course project in each course to help him learn the knowledge application aspects of the course.
- (d) Each Department lays down Departmental visions, objectives and roles in shaping the profile of the graduates. These are discussed, validated and converted in curricula and teaching practice to achieve the desired goals. Thus every course has well defined outcome objectives that are quantified through the assessment process.
- (e) Faculty Development Programme(s) - JUIT believes in continuous training and development of its staff and teachers. The faculty is both multi-skilled and field specialized. Each year JUIT organizes FDPs to impart to its faculty the lessons in professionalism and pedagogy for improving the quality of teaching. The concept of treating students as a customer and caring for them assists the faculty in getting feedback and incorporating necessary improvements. Faculty Development Programme-Emphasizes on course preparation, lecture, tutorial and laboratory delivery, assessment techniques and obtaining feedback. This is undertaken through specific lectures by senior colleagues, followed up by 'demo sessions' and participation in coordinated work groups. At the end of every program, there is a review session along with interaction with Assessment Committee Members

- (f) Symposiums / Interactive Sessions / Seminars / Lectures / Presentations are frequently organized; both inhouse and by inviting eminent external speakers to improve the quality of knowledge and skills and contribute to the knowledge as also the developmental effort of the State & the Country.
- (g) Students are encouraged to explore the environment through participation in professional / curricular / co-curricular activities outside the University.
- (h) System of student mentoring has been put in place. Feedback is analysed at Departmental levels as also during meetings of various fora as to imbibe and include new and valid suggestions.
- (i) Faculty is encouraged for undertaking R&D projects and do research to upgrade their knowledge and contribute to the knowledge generation as also the developmental effort of the State and the Country.
- (j) Faculty is supported through financial incentives to attend conferences / make oral presentations / attend seminars and submit the reports, which are shared in the department for mutual benefit and enhancement of knowledge.
- (k) Students have formed a Youth Club called JYC, this is the sole student body of the college, which believe in furthering the development of the students as a whole, and strive to provide a climate that nurtures the holistic development of our students, an environment that is trusting and spontaneous; and encourages flexibility, celebration and recognition. This is achieved through annual cultural, technical fests, various events, parties, treks, outings and other spontaneous activities to maintain high levels of enthusiasm and team integration. Focusing on technical, literary, sports, and cultural competitive activities, apart from serving as a retreat from intense academic loads, these extracurricular activities present situations with opportunities that build confidence, encourages teamwork and gives students a strong sense of achievement and belonging. The motto followed by them is "We're looking for commitment and passion for activities outside of the academic setting we're looking for depth rather than breadth."
- (l) Student profiling is undertaken in association with internal and external agencies to draw out the strengths of each student for guiding them in placement, entrepreneurship and research as per their aptitude.

10. **MECHANISM / NORMS & PROCEDURES FOR DEMOCRATIC / GOOD GOVERNANCE**

The University has developed following methods:

- (a) Weekly Departmental meetings amongst HODs & faculty
- (b) Meeting of Vice Chancellor & HODs once in a fortnight.
- (c) Faculty meeting presided by the Vice Chancellor once in a month to discuss issues of Academics, Administration, feedbacks and suggestions besides reviewing the progress over all points.
- (d) Nomination of students' counsellors. Each faculty has been assigned specific number students for mutual interaction. The role of faculty as student mentor is listed below:

- (i) Act as local guardian of the students and therefore to perform all such activities as a local guardian should perform.
  - (ii) Continuously monitor their wards academic performance including attendance, marks in quizzes, minor tests, major tests and discipline,
  - (iii) Teach at least one course to such students as far as possible.
  - (iv) Discuss all issues with the students whether personal or official.
  - (v) Be in constant touch with their parents to inform of their progress.
  - (vi) Meet every student at least once every fortnight.
  - (vii) Appraise VC of the progress of the students once in a month.
  - (viii) Seek the help of the administration or VC to resolve problems, if necessary.
- (e) Direct access of faculty and students to the Vice Chancellor, HODs, Registrar and Administrative Heads. No timings have been laid down. Thus all problems are attended to with due urgency.
  - (f) Forms have been devised to report any difficulty in the class-rooms which need attention of maintenance staff. The same are routed through the Vice Chancellor.

#### 11. Grievance Redressal Mechanism for Faculty, Staff and Students

- (a) Grievances of Faculty and staff: These are redressed through normal channel of HODs, Dean, Vice Chancellor, Pro Chancellor. A high level Grievances Committee Chaired by a Retired High Court Judge and having eminent citizens as members is in place. Also the University provides for a Women's Cell to address any Complaint from the girls students or Lady Teachers or NT Staff as per the norms.
- (b) Students : -
  - (i) Through Dean of Student (Welfare) and then to Vice Chancellor in matters other than Academics.
  - (ii) Through respective course coordinators HODs --Deans Vice-Chancellor in Academic matters.
  - (iii) Through Counsellors-- Vice Chancellor on all matters where student so desires.
  - (iv) Students have direct access to the Vice Chancellor without any laid down timings.

#### 12. Names of Programmes being conducted

- (a) Bachelor of Technology in:
  - (i) Electronics & Communication Engineering
  - (ii) Computer Science & Engineering
  - (iii) Information Technology
  - (iv) Biotechnology

- (v) Bioinformatics
- (vi) Civil Engineering

(b) Master of Technology in:

- i. M.Tech- Bio Technology
- ii. M.Tech- Civil Engineering (Specialization: Environmental Engineering)
- iii. M.Tech- Civil Engineering (Specialization: Structural Engineering)
- iv. M.Tech- Civil Engineering (Specialization: Construction Management)
- v. M.Tech-Electronics & Communication Engineering
- vi. M.Tech- Computer Science & Engineering

(c) Ph.D programmes in Computer Science, Electronics & Communication, Biotechnology and Bioinformatics, Physics & Materials Science, Humanities & Social Sciences and Mathematics.

13. Names of Programmes Accredited by the AICTE - The following are Accredited:

- 1) Electronics & Communication Engineering
- 2) Computer Science & Engineering
- 3) Information Technology
- 4) Bioinformatics
- 5) Civil Engineering

14. Details of Each Programme :

Name	No.of Seats	Duration
<b>(a) UG Programme (B Tech)</b>		
ECE	120	4 Years
CSE	180	4 Years
IT	30	4 Years
BT*	60	4 Years
BI*	30	4 Years
Civil	90	4 Years

\*50% of seats in programs marked \*(Biotechnology & Bioinformatics only) shall be allotted through JEE Main rank on merit basis. The balance 50% seats in these programs (Biotechnology & Bioinformatics only) shall be allotted on the basis of merit at 10+2 examination for the students having Biology/Biotechnology at 10+2.

**(b) PG Programme (M Tech)**

- i. M.Tech- Bio Technology - 18 Seats
- ii. M.Tech- Civil Engineering (Specialization: Environmental Engineering) - 18 Seats
- iii. M.Tech- Civil Engineering (Specialization: Structural Engineering) - 18 Seats
- iv. M.Tech- Civil Engineering (Specialization: Construction Management) - 18 Seats
- v. M.Tech-Electronics & Communication Engineering- 18 Seats
- vi. M.Tech- Computer Science & Engineering- 18 Seats

**(c) Ph.D Programmes are run for 3 years and onwards with course requirement to be completed within one year.**

**(d) Cut-off mark / Ranking for Admission in last two years :**

- (i) UG Programme : The admission to B.Tech. programme is based on AIEEE/JEE merit.
- (ii) PG Programmes : The students to PG Programmes have been admitted based on merit in GATE/GPAT or internal entrance test. The cut off percentage is thus as applicable on merit.

**15. Placement Facilities :**

- (a) Training and Placement is an important activity. T&P cell is mainly responsible for arranging practical training of the Undergraduate students to meet their degree requirement and to facilitate the placements of under graduate & postgraduates' students in suitable jobs in the Industry and various private & public sector organizations. To facilitate placements T&P cell invites senior executives of Major industries /organizations to give talks to the students at Campus which helps them acquire better knowledge about the organization prior to campus interviews.
- (b) The students are given training in various skills to make them well tuned to the needs & requirements of the industry. Various internal & external professionals are involved in these trainings on regular and continuous basis.
- (c) Placement Status

Please visit the link for detail (<http://www.juit.ac.in/training-placement>)

**16. Names and Duration of programme(s) having affiliation / collaboration with**

Foreign Universities / Institutions - Please visit the link for detail (<http://www.juit.ac.in/international-linkages> )

17. Details of Foreign University / Institution : Please visit the link for detail (<http://www.juit.ac.in/international-linkages> )

#### FACULTY :

18. Branch-wise List of Faculty : provided on the JUIT website [www.juit.ac.in](http://www.juit.ac.in)  
19. Visiting Faculty : The Institute has following visiting faculty;

#### LIST OF VISITING/GUEST FACULTY

- | S.No. | Name  | Branch  |
|-------|---|---------|
| 1.    | Dr. Anu T. Singh, Dabur Research Foundation             | BT & BI |
| 2.    | Dr. Mohd. Aslam, DBT, New Delhi                         | BT & BI |
| 3.    | Dr. M.K. Sahib, DBT, MoST, Mumbai                       | BT & BI |
| 4.    | Dr. Shriram Raghavan, Evolva Biotech Pvt. Ltd., Chennai | BT&BI   |
| 5.    | Dr. Steffen Danielsen, Nobozymes, Bangalore             | BT&BI   |
| 6.    | Prof. K K Jain, JUET, Guna                              | CE      |
| 7.    | Dr. Ajay Shanker, University of Florida, USA            | CE      |
| 8.    | Prof. H.M. Gupta, IIT, Delhi                            | ECE     |
| 9.    | Prof. Om Vikas,   | CSE     |
| 10.   | Prof. Himanshu Rai, IIM, Lucknow                        | HSS     |
| 11.   | Prof Alok Rai, FMS-BHU                                  | HSS     |
20. Adjunct Faculty :
- (a) Prof. Nalin Sharda, Associate Professor in Computer Science and Multimedia, Victoria University.
  - (b) Dr. Mukul K Sinha, MD, Expert Software System and visiting Professor, Indian National Academy of Engineering.
  - (c) Dr. Om Vikas, Former Director, Atal Bihari Vajpayee Indian Institute of Information Technology & Management(ABV-IIITM), Gwalior.
21. Guest Faculty :
- The University avails the expertise and experience of following through guest lectures and presentation. The Guest faculty / lecturers who have participated / conducted important events over last two years are as follows :
- (a) Prof. William C. Webster - University of California, Berkley, USA
  - (b) Prof. Karl Dieter Entian Director, Institute of Microbiology, University of Frankfurt, Germany
  - (c) Prof. V Sitaraman Head of the Department, Biotechnology, Pune University
22. Faculty : Student Ratio : 1:18

23. No. of faculty employed and left during last three years

- (a) Left - 16
- (b) Employed - 42

**PROFILE OF FACULTY :**

24 The profile and details of faculty as per laid down format are given on the University website with listing at the end of this report.

**FEE :**

25. Details of fee approved by the Governing Council:

- (a) UG Programmes
  - (i) Tuition Fee - Rs. 95,000 per Semester
  - (ii) Hostel Charges Including boarding, Lodging and Laundry - Rs. 45,000 per Semester
  - (iii) Caution Money (refundable) - Rs. 10,000 one time
- (b) Time Schedule for payment of fee - For Detail Visit Admission Link
- (c) No. of fee waiver granted with amount and name of student

Following types of waiver are allowed as approved:

- (i) Students from Bhutan under Scholarship Scheme - 100% Tuition & Hostel Charges (Less Food Charges)
- (ii) Students who are wards of Jaypee Group Companies (Sponsoring Society)(4 Students) 50% of Tuition fee
- (d) No. of Scholarships offered by the Institute, Duration & Amount  
The Institute offers Prof. William C. Webster merit cum means scholarship which provides for tuition fee waiver for a year up to a maximum of Rs. 25000/-. The selection is carried out by a Committee.
- (e) Criteria for waiver / scholarship
  - (i) Tuition fee waiver - see para 25(c) above
  - (ii) Scholarship : Following criteria is applied :-
    - (aa) Combined income of parents should be less than 1.5 lacs per annum.
    - (ab) Merit is based on marks in 10th standard, 10+2 standard and Ist semester in ratio of 15%, 35% and 50% respectively. So far three students have been awarded scholarship since its inception.
- (f) Estimated cost of boarding and lodging : See 25(a)(iii) above. Laundry is included in the above fee.
- (g) Scholarship for M. Tech

- (h) Research Fellowship for Ph.D. Students

## ADMISSION

26. Number of seats sanctioned with the year of approval :

The intake is reviewed and approved by the Governing Council. Currently it is as follows:

- (a) UG Programs - ECE-120, CSE -180, IT-30, BT-60, BI-30, CE-90

Note: These includes seats under NRI / NRI sponsored quota.

- (b) PG Programmes - 108

- (c) Ph.D - As per recommendations of Ph.D Scholars Selection Committee.

27. Admission Status for the Academic Year 2017-18

[http://www.juit.ac.in/attachments/Admission\\_status2017-18.pdf](http://www.juit.ac.in/attachments/Admission_status2017-18.pdf)

28. No. of Applications Received During last two years for Admission under Management Quota and Nos. admitted :

The Institute does not admit students against Management Quota.

29. **Admission Procedure**

<http://www.juit.ac.in/admissions.php>

30. **Calendar for Admission :**

- (i) Last date for request and Submission for Application : 22<sup>nd</sup> June, 2017

- (ii) Dates for Announcement of Results : within four days of declaration of JEE (Main) results by the CBSE.

- (iii) Release of Admission list and Waiting list : After Counselling

- (iv) Starting of Registration : Shall be mentioned in admission letter.

- (v) Refund policy :

## Refund Policy

If a student leaves the program, fee shall be refunded as per UGC D.O Letter no. 1-3/2007(CPP-II) dated 6th December 2016 as below:

S.N	Percentage of Refund of Aggregate fees*	Point of time when notice of withdrawal of admission is served to University
1	100% **	15 days before the formally notified last date of admission, i.e 30th August 2017

2	80%	Not more than 15 days after the formally notified last date of admission, i.e by 14th September 2017
3	50%	More than 15 days but less than 30 days after formally notified last date of admission, i.e between 15th September 2017 to 29th September 2017
4	00%	More than 30 days after formally notified last date of admission, i.e after 29th September 2017.

\* (Inclusive of course fee and non-tuition fees but exclusive of caution money and security deposit)

\*\* 10% of the aggregate fee from the refundable amount shall be deducted as processing charges. Fees shall be refunded to an eligible student within 15 days from the date of receiving a written application from him/her. Further, it may be noted that the Hostel charges shall be refunded on pro-rata basis (calendar month based deductions – part month stay treated as full month) starting from the date of occupying the hostel seat.

1<sup>st</sup> Year classes to commence - 21 July, 2017

### **CRITERIA AND WEIGHTAGE FOR ADMISSION:**

31. Criteria for Admission :

(a) UG Programmes :

(i) ALL UG Merit based on AIEEE/JEE Entrance Test/Merit based on 10+2 for PCB students

(ii) NRI/NRI Sponsored Seats

(b) M. Tech. Biotechnology Integrated Degree (5 years)

Merit based on marks of 10+2 or equivalent exams (best four subjects including Physics & Bio) 50% on JEE and 50% on Merit of 10+2

(c) Post Graduate Programme

Merit based on Joint Entrance Test (PGET) conducted by the University GATE/GPAT Based merit.

32. Minimum Level of Acceptance : To be decided by the Admission Committee from year to year.

33. Level of percentage & percentile score in Admission Test for last three years :

(a) UG Programme : Based on All India Ranking of AIEEE/JEE Results.

(b) NRI/NRI Sponsored : Average of 70% in 10+2 exam of CBSE or State equivalent Exam.

- (c) PG Programme(s) : Average of 70% marks in Graduate Aptitude  
(GATE/GPAT) Entrance Test.

34. The List of rankings in Entrance Tests are displayed directly on monitors in waiting halls / notice board during process of counselling.

#### ADMISSION FORMS

35. The Admission Forms, Procedures and Schedule of admission is available on the University website, <http://www.juit.ac.in>.

#### LIST OF APPLICANTS

36. The list of candidates who qualify for the counselling is displayed on the web site, along with JEE ranking. The candidates are also advised to report for counselling through SMS & e-mail in case individual letters sent to the merit listed candidates fail to reach them.

37. No Lists are applicable against Management Quota, as JUIT does not offer any such quota.

#### RESULTS OF ADMISSION UNDER MANAGEMENT SEATS / VACANT SEATS:

38. "NOT APPLICABLE AS NO ADMISSIONS ARE ALLOTTED AGAINST VACANT SEATS, THROUGH MANAGEMENT QUOTA. ALL SEATS ARE FILLED THROUGH COUNSELLING" ON MERIT.

#### INFORMATION ON INFRASTRUCTURE

39. Library :

The LRC of the Institute is a state of Art modern, student friendly complex which provides all facilities needed by the students to assist them in their studies. Briefly the features of LRC are given below:-

(a)	Seats	:	325
(b)	PC Terminals	:	65
(c)	Titles	:	17,717
(d)	Volumes	:	33,043
(e)	Journals Bound Vol. International	:	736
(i)	National (Print)	:	44
(ii)	International (Print + Online)	:	26+918=944
(f)	Digital Libraries		
(i)	IEEE	:	147
(ii)	ACM	:	42
(iii)	Springer's Link	:	520
(iv)	ASCE	:	33
(v)	AIP	:	13
(vi)	APS	:	13

- (vii) Emerald : 150
- (g) Daily Newspapers : 12
- (h) Magazines : 21

40. Laboratory:

(1) IT Infrastructure Centre

The main objectives of the Server Room ( IT Infrastructure Center) are to provide support to all the members of JUIT on all aspects of academic computing, to implement and maintain IT infrastructure and application software, to impart introductory and advanced instructions to users, generate trained manpower to maintain IT infrastructure ( Servers, Desktops, Network, Projectors, Printers, UPS, Wi-Fi, sound system, scanner etc.), to provide support to institute computerization efforts, to do in house research & development, and to serve a user population of more than 2500 users consisting of undergraduate students, postgraduate students, research scholars, faculty and staff of the University.

In addition, it also owns the responsibility to develop and implement application software for various needs of the JUIT like finance, payroll, results, MIS reports and electronic attendance system etc.

- General Computing Facilities

The Server Room is equipped with IBM X series Server for high performance Unix Computing Server, Intel Xeon servers with multiple processors, High end Intel Pentium server with multiple processors, various engineering and technical computing software, network management tools, Client/Server Database computing system connected over a switched fast Ethernet with Optical fiber backbone.

For our printing needs we have total 61 printers with 12 heavy duty Network Printers and 1 Line matrix printers.

- **HARDWARE CONFIGURATION**

S.No	Server	Configuration	Quantity
1	IBM X Series 235	Intel® XEON 2.4 GHz 4 GB RAM 73 GB SCIC HDD with RAID Support.	3
2	IBM X Series 226	Intel® XEON 3.0 GHz 4 GB RAM 140 GB SCIC HDD with RAID Support.	2
3	IBM System X 3400	Intel® XEON 2.0 GHz 4 GB RAM 956.32 GB SCIC HDD with RAID Support.	7
4	IBM X Series 200	Intel® P3 1.2 GHz 2 GB RAM 20 GB SCIC HDD with RAID Support.	2

5	IBM X Series 232	Intel® P3 1.2 GHz 1.2 GB RAM 204 GB SCIC HDD	2
6	IBM X Series 206	Intel® P4 3.0 GHz 1.2 GB RAM 68 GB SCIC HDD	1
7	SUN Fire 280R	2 GB RAM ,502 GB HDD SUN OS 5.8	1
8	CR 1000ia	10 10/100/1000 Gigabit ports with 3.5 Gbps firewall throughput and 600 Mbps anti-virus throughput	2
9	IBM X Series 3500	Intel® XEON 2.26 GHz 6 GB DDR III RAM 1200 GB SCIC HDD with RAID 5 Support , 17 inch TFT monitor	3
10	IBM Server X3100	IBM Server intel XEON X3100 with 8 GB DDR3 ,500 GB HDD and TFT screen	3
11	IBM x-3400 M3	Server IBM Model x-3400 M3 with intel xeon quad core processor,8 GB RAM,300 GB X 4 HDD,18.5 inch TFT	1
12	HP	HP ML 110G6 Server Intel Xeon Quad Core X3430 Processor with 4 gb RAM ,250 GB Sata HDD and 18.5 TFT Screen	2

• **DESKTOP DETAILS**

S.No	Brand	CONFIGURATIONS	QTY
1	Sun Think Client	Sun Client	35
2	IBM	P IV with 3 GHz, 80 GB HDD & 512 MB RAM	150
3	IBM	Core 2 due 2.4 Ghz, 160 GB HDD & 1 GB RAM 17 inch Monitor	64
4	IBM	P4 1.8 Ghz,40 GB HDD,256 MB RAM & 15 inch Monitor	20
5	IBM	P4 2.8 Ghz,40 GB HDD,256 MB RAM & 15 inch Monitor	35
6	IBM	P4 3.06 Ghz,80 GB HDD,256 MB RAM & 15 inch Monitor	27

7	IBM	Celeron 2.4 Ghz,40 GB HDD,256 MB RAM & 15 inch Monitor	44
8	IBM	Dule core 1.8 Ghz,80 GB HDD ,1 GB RAM & 17 inch Monitor	45
9	IBM	Dule core 1.8 Ghz,80 GB HDD ,512 MB RAM & 17 inch Monitor	15
10	IBM	INTEL CORE 2 DUO,160 GB HDD,4 GB RAM & 17 inch Monitor	2
11	IBM	INTEL CORE 2 DUO,160 GB HDD,2 GB RAM & 17 inch Monitor	50
12	IBM	INTEL CORE 2 DUO,160 GB HDD,2 GB RAM & 17 inch Monitor	135
13	IBM	core i3-530 (2.92 Ghz) with 2 GB RAM ,250 GB Sata HDD,18.5 inch TFT Monitor	90
14	IBM	Core I3- 2100 3.10 Ghz with 2 GB RAM ,320 GB Sata HDD,18.5 inch TFT Monitor	80
15	IBM	Core I3- 2100 3.10 Ghz with 4 GB RAM ,500 GB Sata HDD,dvd rom,18.5 inch TFT Monitor	120
		Total Number of computers	912

- **ENGINEERING AND TECHNICAL COMPUTING SOFTWARE.**

The University uses a large number of open source and free ware and in addition has the following commercial licensed software packages from the respective vendors.

S.No	Product Title	No of Licenses
1	Hyperchem Release 7	10
2	Matlab ver as updated	30
	Simulink	30
	CDMA Reference Blockset	5
	Communications Blockset	5

	Communications Toolbox	5
	Signal Processing Toolbox	5
	Wavelet Toolbox	5
3	Library Automation – Liberty	Unlimited
4	MS Office Professional Plus 2007	100
5	Windows Server Enterprises 2003	3
6	Adobe Premier Pro Ver 7.0	20
7	Cold Fusion MVLP Ver 6.1	10
8	Flash MX 2004 MVLP	20
9	Micro Media Director Shockwave Studio for windows English AE	10
10	Symantec Anti virus	Unlimited
11	SQL Server 2000 Standard Edtn	1
12	Windows Server CAL 2003 English OLP NL AE Device CAI	4
13	VStudio .Net Pro 2003 Win32 English OLP NL AE	15
14	Office XP Pro Win 32 English	20
15	VStudio .Net Pro 2002 Win32 English	9
16	ISA Server 2000 English	1
17	Windows Advanced Svr 2000 English.	1
	Windows CAL 2000 English OLP NL AE	23
18	DB2 UBD Enterprise Server Edition .	1
19	IBM Tivoli Storage Managed Processor	1
20	Cyberoam software for internet	1
21	Schrodinger For Biotech	1 user 25 Token
22	Lotus Domain	100
23	AutoCad 2005 Education	5

24	A'Desk 3 ds Max 6 (Edu)	20
25	Rational suit Enterprise Software	20
26	Mathematica Ver 5.0	10
27	Autocad 2004 Network User	10
28	Maple 9.5	1
29	Sun Solrix Ver 8	35
30	Window XP Professional	20
31	Oracle 9i	10
32	Visual Prolog ver 6.1	15
33	Soft image xsi Ver 4.0	20
34	Staad Pro	5
35	SPSS Base 16.0	15
36	Oracle 11g	1
37	Clarity Digital Multimedia Language Lab	31
	Clarity English Teaching Software from U.K	
	1. Sky Pronunciation Suite	5
	2. Connected Speech	5
	3. Tense Buster Compilation	5
38	NI Lab View Academic Site License 2010	50
39	Pasw Amos 18.0	3
40	Windows Server Enterprise 2008 with media	10
41	Antivirus Symantec Protection Suite enterprise edition 3.0	1000
42	Bentley Civil of perpetual network based software a.Mx Road V8 b.Power Civil c.Power Map	5
43	Ansys release 12.1	
44	HyperLynx 3d EM Super Structure Designer V 15.2	3

45	Auto CAD 2013	30
46	Matlab ver 10	50
	Simulink	10
	Filter Design Toolbox	10
	Communications Blockset	10
	Communications Toolbox	10
	Signal Processing Toolbox	10
	Video and Image processing Blockset	10

- **DATABASE SERVICES**

The Server Room has a Client/Server Database Computing System – Oracle 11g with Developer 2000 version 6.0 at front end, the platform is windows NT/2000/2003.

- **NETWORK SERVICES**

The University Local Area Network (LAN) is a state of the art Managed and switched network with Fiber Optical and enhanced CAT5e/CAT6 UTP Backbone. It consists of more than 3500 network access points spread using 73-3 com switches, 3 Cisco Routers, 15 Cisco switches, 17 Cisco AP and 15 VLANs.

The network access is provided to every room in student's hostel, faculty & staff residence, doctors at JUIT hospital, mess, laboratories and rooms in guest houses.

Internet connection has been provided through a router. We have 1 Gbps (1: 1) leased circuit from BSNL and Railtel (4 MBPS) on OFC. Apart from internet and intranet many more services including mail, web, and library book search, domain name, antivirus and software upgrades are being provided over this network.

JUIT is using Cyberoam Suite to manage internet bandwidth and mailing services. Cyberoam consists of software firewall, anti spam controller, content filtering and antivirus protection at gateway level. Lotus Domino Package is being used by JUIT for official mailing and other corporate services.

LAB DETAIL (Please visit the website [www.juit.ac.in](http://www.juit.ac.in))

- 1) [Department of Electronics and Communication](#)
- 2) [Department of Computer Science & Engineering and Information Technology](#)
- 3) [Department of Biotechnology and Bioinformatics](#)
- 4) [Department of Civil Engineering](#)
- 5) [Department of Physics and Material Science](#)
- 6) [Department of Humanities and Social Sciences](#)

## TEACHING LEARNING PROCESS

### 41. Teaching Learning Process :

#### **Project Based Learning**

To train the students in applying the knowledge acquired in each course and to understand and develop the problem solving skills, every student has to complete a minor project in each course and then at the end of the program has to complete a major project with 20 credits.

#### **Group & Self-Learning**

This is a very effective means towards preparing professionals who are proactive in seeking and acquiring knowledge rather than having it imparted only in the classroom. Free exchange of ideas among the group members through discussions and presentations not only leverages on time effort but also enhances teaching and communication skills. Every course syllabus has a list of URL's from where the student can get additional content and learning resources. This encourages the student to explore, learn & expand the classroom teaching and also equips them to enhance self learning capabilities. Aptitude is developed for self-study and use of web resources and data banks to foster life long learning.

#### **Problem Solving Exercises**

Problem solving is an integral part of the teaching-learning process. Lectures emphasize this aspect through carefully set, open-ended design problems. Students are organized in small groups where an opportunity is provided to do problem solving, engage in design exercises, and perform information search and processing.

### 42. Academic Calendar of the University :

Please visit the link for detail:

Academic Calendar 2018-19

<http://www.juit.ac.in/attachments/AcademicCalendar2018-2019.pdf>

Academic Calendar 2017-18

<http://www.juit.ac.in/attachments/AcademicCalendar2017-2018.pdf>

### 43. Internal Continuous Evaluation System :

The teaching-learning process :

It is to develop a number of qualities in students. These are as follows:

- Sustained Disciplined Work

Since the University uses multidimensional assessment model which demands that the teacher provides students the opportunity to participate in quizzes, R&D seminars, tests and assignments throughout the semester hence the ability to put in sustained and disciplined hard work over the entire length of semester is one of the key factors to success in professional life. A typical semester is designed in an intensive and a

modular fashion with an emphasis on regular and continuous work. The Evaluation System (see section 3) is designed to encourage this concept.

- Self Learning

In its attempt to move away from teacher-centered 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 specifically earmarked for independent study. That is, Self learning time per course = (theory time + tutorial time)\*0.15

- Flexibility in Pace of Learning

The evaluation system makes special provision for different paces of learning for different students. Yet, it attempts to inculcate respect for deadlines. Thus, while specifying a time limit within which tutorial/practical work must be completed, there is scope to submit such work beyond the deadline. However, there will be a small penalty for late submission. The faculty will notify of the penalty for late submission for each tutorial/practical session and also the time up to which late submissions will be accepted.

- 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 programs (The teaching-learning process structures a course in the two levels of implementation and design).

- Quality Consciousness

Students are made to be aware of the importance of continuous improvement, building zero-defect products and doing quality work. All courses emphasize on quality as an integral part of teaching the various standards and how they are used. Students are taught how to test and certify their laboratory work and how to evaluate the worth of theoretical results.

- Co-operative Working

Given the complexity of technological problems of today, large multi-disciplinary & multi domain teams work together to provide solutions. Thus, it is very important to learn group dynamics and to work in teams. Through co-operative project work wherever possible, the Institute encourages students to learn to select teams, resolve leadership and group issues and in general, to make effective operational process based work & activity models.

- Evaluation System :

**(A) Theory Courses**

Examination	T-1	T-2	Make Up	T-3
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Total Marks	15	25	25	35
Duration	1 Hour	1 Hour 30 Minutes	1 Hour 30 Minutes	2 Hours

There shall be three Examinations. These shall have a total weight age of 75%; the balance 25% shall be allocated to Assignments, Quizzes, Homework, and Regularity in Attendance and Tutorials etc. by the Course Coordinator/Respective Teacher. Allotment of marks, duration of each Examination and coverage of Syllabi will be as under:-

Syllabi Coverage:

- (i) T-1 Exam: Syllabi covered up-to T-1.
- (ii) T-2 Exam: Syllabi covered up to T-2.
- (iii) Make up Exam: Syllabi covered up to T-2.
- (iv) T3 Exam: Full Syllabi.

Teachers Assessment: 25 marks

### **(B) Practicals.**

The evaluation of Practical / Laboratory / Workshop work will be based on following:-

- (a) Day to day work.
- (b) Punctuality and Regularity.
- (c) Quantity and Quality of work.
- (d) Some practical tests.
- (e) Any other component to be decided and announced by the teacher(s).

**Evaluation of the practical/lab courses/workshop shall be as follows:-**

- (a) Day to day work 60%: Break-up of Day to day work will be as follows
  - (i) Attendance 15%
  - (ii) Quantity & Quality of Experiments including Performed, Learning laboratory Skills and handling Laboratory Equipment, Instruments, Gadgets, Components, Materials and Software etc. 30%
  - (iii) Laboratory record 15%.
- (b) Mid-Semester lab-viva/test 20%
- (c) End Semester lab-viva/test 20%

### **(C) Projects (Major)**

(a) Students are required to register for the project as specified in the Academic calendar. The credits to be registered in each semester, if the project runs for more than one semester, shall be governed by the approved curricula.

(b) Following evaluation scheme to be followed in each semester while evaluating and awarding grades:-

- (i) Day to day work 30% awarded by the Supervisor(s).
- (ii) One Mid-Term Seminar on the project work for 20 minutes followed by Viva-Voce Examination (between T1 and T2 Exam), 25% awarded by a panel.

- (iii) Project Report/Thesis 20% awarded by the Panel.
- (iv) Final Viva-Voce 25% awarded by a panel of three teachers including Supervisors.
- (v) In case of M.Tech programs, External Examiner shall form the part of panel.

(c) Guidelines for Monitoring and Evaluation of Projects: Quality of project work will be based on student's meeting and holding discussion with the supervisor. Enthusiasm, zeal and the work put in by the candidate. Systematic and scientific approach to the work followed by the candidates. Hence

- (i) The students must meet their supervisors immediately after the lists of projects assigned to them are displayed and commence their projects.
- (ii) The students must meet and report to their supervisors at least twice a week on appointed days and time.
- (iii) The students should maintain a logbook of their day to day activity and get it signed by the supervisors twice a week during their meetings.
- (iv) There should be regularity and timeliness of interaction with the supervisor.

(d) The final evaluation of the M.Tech project (i.e. at the end of 4th semester) shall be carried out by a committee consisting of Supervisor, HoD or his nominee and an external expert. The evaluation at the end of the third semester shall be carried out by a committee consisting of Supervisor, HoD or his nominee and a nominee of Dean-A&R.

(e) Distribution of Marks at the end of Third Semester

- (i) Day to day work to be awarded by Supervisor - 40 Marks.
- (ii) End Semester Evaluation by a panel of Examiners (Report, Presentation and Viva-Voce) - 60 Marks

(f) Evaluation during and at the end of Fourth Semester.

- (i) Day to day work to be awarded by Supervisor - 30 Marks.
- (ii) Mid Semester evaluation between T1 & T2 by Panel - 20 Marks of 2 examiners (Supervisor and nominee of HoD).
- (iii) End Semester Evaluation by a panel of Examiners (Report, Presentation and Viva-Voce) - 40 Marks.
- (iv) Significant/Special contribution to be awarded by Panel of examiners - 10 Marks.
- (v) The following may be considered for significant/special contribution: Paper publication or publication of good quality, Practicality/novelty of the Theory, Model, Product or Design etc. Note: A+ Grade for project work may be awarded only if high quality significant contribution is made by a candidate in dissertation work and in all such cases that contribution should be highlighted in the examiners' report. (Separate Grades will be awarded at the end of Third and Fourth Semesters)

#### **(D) Industrial Project**

- (i) B.Tech students who proceed to work in last semester of their program for completing their Project in Industry shall be allotted an External Supervisor from the industry/organization in which they work for their project.

- (ii) The External Supervisor from the industry/ organization shall be appointed by the appropriate authority of the industry/organization and communicated to HoD concerned and Dean (A&R) in the beginning of the semester.
- (iii) External Supervisor shall work on the problem identified and the work plan for the semester defined by the External Supervisor for the Industrial Project work.
- (iv) The External Supervisor and the candidate shall always remain in touch. The evaluation of the industrial project shall be done by the External Supervisor and the marks/grade awarded to be forwarded to the HoD concerned of JUIT.

**Grading.**

- (a) Structure of Grading of Academic Performance

The following shall be the structure of grading for academic performance of the students:

<b>Grade</b>	<b>Point</b>	<b>Description of performance</b>
A+	10	Outstanding
A	9	Excellent
B+	8	Very Good
B	7	Good
C+	6	Average
C	5	Below Average
D	4	Marginal
F	0	Very Poor
NP	-	Audit Pass
NF	-	Audit Fail
W	-	Withdrawal
X	-	Continued Project

- (b) Students obtaining grades A(+) to D, shall be declared pass. Students failing in the subject, will be awarded F grade.
- (c) The grades shall be decided on the aggregate of evaluation of all the components like:-
  - (i) written Examinations
  - (ii) Assignments Quizzes, homework, tutorials and regularly in attendance etc (A).

**Attendance Requirement.**

- (a) A student is required to attend all the classes.

- (b) If the attendance profile of a student is unsatisfactory, he/she will be debarred.
- (c) Absence during any tests, for any reason, is at student's, own risk and loss

### **Showing of Answer Scripts.**

The answer scripts of all examinations is shown to the students. Students desirous of seeing the marked answer scripts of final examination, has to ensure their presence before results are declared, as per dates notified in the Academic Calendar.No appeal is accepted for scrutiny of grades after that date.

44. Student Assessment of Faculty : System in Place on-line and the feedback so obtained for the course, teaching-learning environment and teachers note is used to improve the curricula on a continuous basis.

The system of interaction of students, HODs and Vice Chancellor either directly or through counsellors have proved effective in management of issue.

45. Research Activities

The University has a large focus on R&D and has started from its very inception to encourage faculty members to engage in research. The University is a recognized “Centre of Excellence” by DBT and assisted by DST under FIST. It has also been rated as the No. 1 Biotechnology Department in India among the private Universities.

At the University, a “Computer Communication Research Group” (CCRG) has been set up. The CCRG is dedicated to basic and applied research in computer communication. Research focuses on new algorithms, protocols, and architecture for wireless networks based on packet switching (i.e. packet-radio networks), internetworking, multipoint communication, and the control of resources by multiple administrative authorities.

#### **Wireless Networks, Channel Access and Mobile Computing**

The Group is developing new algorithms and protocols for wireless networks based on packet switching, i.e. packet-radio networks. A multi-hop packet-radio network is an ideal technology to establish an “instant communication infrastructure” in disaster areas, which support Indian military needs, and extend the global communication infrastructure to the wireless mobile environment.

The research problems being addressed include channel access, routing, multicasting, congestion control, topology management, end-to-end reliable communication, and security.

#### **Internetworking**

Internetworking technology has been tremendously successful. As the Internet continues to evolve, today's internetworking technology is challenged by growth, the provision of multiple types of services at varying speeds, the support of collaborative environments that require real-time multipoint communications, the control of resources by multiple administrative authorities, and the interoperation of different types of high-speed internets.

Research problems being addressed in this area include scalable routing architectures and protocols, scalable multicast routing, end-to-end reliable multicasting, and security.

#### Multimedia Collaboration

Ultimately, computer communication research aims at supporting and augmenting people's ability to communicate, coordinate, and collaborate remotely, using online tools and information in a distributive manner.

The Group is developing new protocols and middleware for group coordination and distributed multimedia resource allocation, augmenting tele-collaboration and distance learning.

Future plans for new courses include starting a UG and PG program in Biotechnology, relevant PG (M.Tech.) courses in the disciplines of Electronics & Communication, Computer Science & Engineering and Information Technology, Bioinformatics, and Civil Engineering.

### **INNOVATIVE PROGRAMS**

- (i) The University has been introducing many new concepts and techniques in pedagogy as also in the ICT applications in Education, Training & Research using State-of-Art Information & Communication Technologies, Bioinformatics/Biotechnology, and IT-enabled Services. These are globally recognized areas of rapid growth in this decade. India has been already recognized as a source and repository for highly trained manpower in IT, ITeS and related areas and is fast developing in Bioinformatics/Biotechnology applications. Our Graduates have been excelling in all these areas, and in contributing to national prosperity and global competitiveness of Indian industry.
- (ii) JUIT is committed to developing excellence in education, training and research through innovative process and methodologies. Institutionalized attempts are being made to promote and foster excellence in developing knowledge skills and attitudes in all students and commitment to values in faculty and staff.
- (iii) Faculty Development Program - Conducted once every year with emphasis on outcome based course preparation, lecture, tutorial and laboratory delivery assessment techniques, and feedback based continuous upgradation of course contents pedagogy and assessment methodology is yielding encouraging results. . This is undertaken through specific lectures by senior colleagues, followed up by 'demo sessions' and participation in coordinated work groups. At the end of every program, there is a review session along with interaction with Experts.
- (v) Student Profiling - Undertaken in association with Internal & External Agencies, build on the strengths of each student.

#### **Course Curriculum**

Link -> <http://www.juit.ac.in/attachments/FinalSyllabus.pdf>

#### **PUBLICATIONS**

For Publication click the link below:

**Electronics and Communication Engineering**

Link -> <http://www.juit.ac.in/faculty.php?id=389&dep=ece&page=0>

**Computer Science & Engineering and Information Technology**

Link -> <http://www.juit.ac.in/faculty.php?id=63&dep=cse&page=0>

**Biotechnology and Bioinformatics**

Link -> <http://www.juit.ac.in/faculty.php?id=91&dep=bio&page=0>

**Civil Engineering**

Link -> <http://www.juit.ac.in/faculty.php?id=143&dep=civil&page=0>

**Physics and Materials Science**

Link -> <http://www.juit.ac.in/faculty.php?id=70&dep=physics&page=0>

**Mathematics**

Link -> <http://www.juit.ac.in/faculty.php?id=131&dep=maths&page=0>

**Humanities and Social Sciences**

Link -> <http://www.juit.ac.in/faculty.php?id=47&dep=pd&page=0>

**PROJECTS**

**Electronics & Communication Engineering**

<http://www.juit.ac.in/ece-project>

**Computer Science & Engineering and Information Technology (CSE&IT)**

<http://www.juit.ac.in/department/cse&it/CSE&ITAcademicResearchProjects.php>

**Biotechnology and Bioinformatics**

<http://www.juit.ac.in/biotechnology-and-bioinformatics-rd>

**Civil Engineering**

<http://www.juit.ac.in/civil-projects>

**Physics & Materials Science**

<http://www.juit.ac.in/physics-and-materials-science-projects>

### Invited Talks by JUIT Faculty

S. No.	Name	Place	Date
1	Sudhir Syal	Waste management, Ministry of Rural Development, Shimla HP	9 Apr, 2014
2	Sudhir Syal	DST INSPIRE, Fategarh Sahib, Punjab	25 Mar, 2013
3	Sudhir Syal	DST INSPIRE, Fategarh Sahib, Punjab	11 Feb, 2013
4	Sudhir Syal	Workshop on energy, J.N. Govt. Engg. College, Sundernager, HP	2 Mar, 2013
5	Sudhir Syal	World's std. Day, BIS, Govt. of India, HP	17 Oct, 2012
6	Sudhir Syal	Seminar on Biol. Engg., SDSMT, USA.	11 Oct, 2011
7	Sudhir Syal	Sigma XI , Rapid city, SD, USA	17 May, 2011
8	Chanderdeep Tandon	2nd International Conference on Translational Medicine, Chicago-North Shore, USA	5-7 Aug, 2013
9	Chanderdeep Tandon	3rd Annual Protein & Peptide Conference (PepCon 2010), Beijing, China	21-23 Mar, 2010
10	Chanderdeep Tandon	DBT sponsored event, DAV College, Chandigarh, India	6-7 Nov, 2009
11	Chanderdeep Tandon	International Conference on Analytical & Bioanalytical, Hyderabad, India	1-3 Nov, 2010
12	C Rout	Workshop on Functional and Structural Proteomics : An In Silico approach, Himachal Pradesh University, Shimla, India	26-30 Oct, 2009
13	Dipankar Sengupta	Dept. of Bioinformatics, GGSDS College, Sector 32-C Chandigarh, India	21 Jan, 2012
14	Dipankar Sengupta	Bioinformatics Center, Department of Agriculture Biotechnology, CSK HPKV Palampur, H.P., India	15-16 Mar, 2011
15	Dipankar Sengupta	Bioinformatics Center, Himachal Pradesh University, Summer Hills, Shimla, H.P., India	16 Sept, 2010
16	Gargi Dey	National Conference on "Bioactive Compounds And Functional Foods in Health	15-16 Nov, 2013

		and Disease Management , National Institute of Food Technology Management and Entrepreneurship (NIFTEM), Karnal	
17	Gargi Dey	8 <sup>th</sup> Nutra Summit, Mumbai	13-16 Mar, 2013
18	Gargi Dey	Bangalore INDIA BIO, Bangalore	6-8 Feb, 2012
19	Harvinder Singh	DBT sponsored Workshop on Use of Bioinformatics Tools in Genomics & Proteomics., CSK HPKV, Palampur	Mar, 2011
20	Maneesh Jaiswal	Workshop on Biotechnology policies for Himachal Pradesh, 2nd Revision, Shimla	29 Nov, 2013
21	Hemant Sood	Workshop on challenges and opportunities for growth of medicinal plant sectors in North-West Himalayas, HFRI (ICFRI) Shimla	18-19 Mar, 2010
22	Jata Shankar	Dept of plant pathology, IARI, Pusa, New Delhi	1 Mar, 2014
23	Kuldeep Singh	Eternal University, Baru Sahib, Himachal Pradesh	27 Nov, 2010
24	Kuldeep Singh	NITM, Sitholi, Gwalior M.P.	10 Dec, 2011
25	Kuldeep Singh	Recent Advances in Chemical Sciences: Emphasis on Healthy life (RACE for Healthy Life), ITM Gwalior	21-22 Sept, 2012
26	Rahul Shrivastava	DST sponsored six weeks technology Based Entrepreneurship Development Program , Kurukshetra University, Kurukshetra	Aug, 2012
27	Rahul Shrivastava	Safety Week Celebration, Shoolini University, Solan	Aug, 2013
28	Rahul Shrivastava	G.B. Pant Engineering College, Pauri (U.K.)	Oct, 2013
29	Tiratha Raj Singh	BioMining, 2011, ENSA, Tangier, Morocco	24 Nov, 2011
30	Tiratha Raj Singh	Thapar University, Patiala.	12 Dec, 2011

31	Tiratha Raj Singh	CSK HP Agricultural University, Palampur	2-3 Mar, 2012
32	Tiratha Raj Singh	Bioinformatics Centre, HPU, Shimla	20 Sept, 2013
33	Tiratha Raj Singh	MANIT, Bhopal, India	24 Sept, 2013
34	Ashok K. Gupta	Koldam, NTPC, Bilaspur	2011
35	Rajesh Goyal	Kol Dam, NTPC, Bilaspur	2011
36	Anil Kumar	Kol-Dam, NTPC, Bilaspur	2011
37	S.K. Jain	IIT, Madras	2012
38	Ashok K. Gupta	BITM, Shimla, Himachal Pradesh	2013
39	S.K. Jain	IIT, Madras	2011
40	S.K. Jain	PEC, Chandigarh	2008
41	S.K. Jain	IISc Bangalore	2008
42	Anil Kumar	BITM, Shimla, Himachal Pradesh	2013

#### Invited Talks by External Speakers at JUIT

S. No.	Name
1	Prof. Alok Bhattacharya, JNU, New Delhi
2	Dr. Naidusubba Rao, JNU, New Delhi
3	Dr. Shriram Raghavan, Vice-President Evolva Biotech Ltd.
4	Prof. NN Dutta, JUET, Guna
5	Dr. OP Sharma, former Director IVRI Res. Station, Palampur

6	Dr. Asha Kembhavi, Connect & Innovate Consultant, Novozymes South Asia Private Ltd.
7	Dr. Anu T. Singh, Director (R&D), Dabur Research foundation
8	Dr. S.K. Mahla, Vice Principal, GGS CMT, Kharar
9	Dr. Manju Ray, Bose Institute, Kolkata
10	Dr. Manju Ray, Bose Institute, Kolkata
11	Dr. Koushik Das Sarma, Associate Director, Jubilant Chemsys, Noida
12	Dr. Koushik Das Sarma, Associate Director, Jubilant Chemsys, Noida
13	Emeritus Professor Jeffrey G Duckett, Biodiversity (Bryophytes), Department of Botany, Natural History Museum, Cromwell Road, London
14	Dr Silvia Pressel, Biodiversity (Bryophytes), Department of Botany, Natural History Museum, Cromwell Road, London
15	Dr. Sumeet Dua, Louisiana Tech University, Ruston, LA, USA
16	Dr. Sumeet Dua, Louisiana Tech University, Ruston, LA, USA
17	Dr. Sumeet Dua, Louisiana Tech University, Ruston, LA, USA
18	Dr. Sachiko ISOBE, Kazusa DNA Research Institute, Japan
19	Basant Kumar, AGM, IRCON International
20	Dr. Subramaniam D.Rajan, Professor, Arizona State University, Tempe, USA
21	Dr. Vineet Kamat, Associate Professor, University of Michigan, Ann Arbour, USA
22	Dr. Abdol Chini, Professor, University of Florida, Gainesville, USA
23	Dr. Ajay Shankar Professor, University of Florida, Gainesville, USA
24	Dr. Chandrashekhar Putcha, Professor of Civil Engineering, California State University, Fullerton, USA
25	Dr. S. Prakash, Prof. Emiretus, Dept of Civil Engineering, University of Missouri, Rolla, USA
26	Dr. Bala Asthakala, Professor, Concordia University Ontario, Canada
27	Dr. Nick Barton, Principl, Nick Barton & Associates, Norway

28	Dr. K.G. Sharma, Professor of Civil Engineering, IIT Delhi
29	Dr. P.K. Garg, Professor of Civil Engineering, IIT Roorkee
30	Dr. Z. Ahmed, Associate Professor of civil engineering, IIT Roorkee
31	Dr V Pandya, Vice President, Jaypee Cements
32	Dr. Manoj Datta, Director, PEC
33	Dr. Rajbal Singh, Jt. Director, CSMRS, New Delhi
34	Graham Morphett, Director, Uretex India Pvt. Ltd.
35	Dr. J.T. Shahu of IIT Delhi
36	Dr. R.G. Robinson of IIT Madras
37	Dr. Altaf Usmani of EIL, New Delhi
38	Dr. Narayanmurthy, IIT Madras
39	Dr. V M Sharma, Director, AIMIL Ltd.
40	Er. Anil Sharma, Chief Engineer

### **Details of Individual Faculty Members:**

Please click the link below for detail of Individual faculty member

#### **Electronics and Communication Engineering**

Link -> <http://www.juit.ac.in/faculty.php?id=389&dep=ece&page=0>

#### **Computer Science & Engineering and Information Technology**

Link -> <http://www.juit.ac.in/faculty.php?id=63&dep=cse&page=0>

#### **Biotechnology and Bioinformatics**

Link -> <http://www.juit.ac.in/faculty.php?id=91&dep=bio&page=0>

#### **Civil Engineering**

Link -> <http://www.juit.ac.in/faculty.php?id=143&dep=civil&page=0>

#### **Physics and Materials Science**

Link -> <http://www.juit.ac.in/faculty.php?id=70&dep=physics&page=0>

#### **Mathematics**

Link -> <http://www.juit.ac.in/faculty.php?id=131&dep=maths&page=0>

#### **Humanities and Social Sciences**

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**Industrial Consultancy, Research and Development (during the past 5 years)**

Amount of Industrial Consultancy earned (in lakhs of Rupees) : 5.7

No. of Sponsored research projects completed	:	27
No. of Patents produced	:	1
No. of research projects in progress	:	41
No. of Papers published in International Journals	:	402
No. of Papers published in National Journals	:	49
No. of papers presented in International Conferences/ Seminars	:	143
No. of papers presented in National Conferences/Seminars	:	91
No. of International Conferences Conducted	:	8
No. of National Conferences Conducted	:	4
No. of Training Programmes / Short Terms Courses Conducted	:	23