



## **AGENDA**

**Thirty second (32<sup>nd</sup>) Meeting of SENATE of**

**Indraprastha Institute of Information Technology Delhi**

**Date: 30<sup>th</sup> March, 2016**

**Day: Wednesday**

**Time: 03.30 PM**

**Venue: Senate Room, B-wing, 5<sup>th</sup> Floor,  
R&D Building, IIT-D Campus,  
Okhla Industrial Estate, Phase-III,  
New Delhi-110020**

# INDEX

	<b>Description</b>									
	<p><b>32.1</b> Opening remarks of the Chairman, Senate</p> <p><b>32.2</b> Confirmation of minutes of the 31<sup>st</sup> meeting of the Senate held on 01.12.2015.</p> <p><b>32.3</b> To consider End of Semester Summary Report (Monsoon 2015)</p> <p><b>32.4</b> Approval of Academic Calendar for Summer Semester 2016</p> <p><b>32.5</b> Approval from AICTE</p> <p><b>32.6</b> Approval from NBA for Accreditation of PG programs</p> <p><b>32.7</b> Bonus Marks for BTech Admissions in 2016</p> <p><b>32.8</b> To consider increase in intake of B. Tech. programs</p> <p><b>32.9</b> To consider a proposal to start new B.Tech. (CS+Maths) program</p> <p><b>32.10</b> To consider recommendation of the UGC to allow a BTech student to do “extra credits”</p> <p><b>32.11</b> To report discontinuation of streams in UG programs</p> <p><b>32.12</b> To consider recommendation of the UGC to allow the UG students to repeat (Improvement) of a particular course</p> <p><b>32.13</b> To consider regulations regarding Electives in 2<sup>nd</sup> year for CSE students</p> <p><b>32.14</b> To report the status of Regular and Rolling PhD Admissions</p> <p><b>32.15</b> To consider a proposal to start Ph.D. in Mathematics</p> <p><b>32.16</b> To ratify the approval given by the Director (Chairman, Senate)</p> <p><b>32.17</b> Recommendation / Report by PGC</p> <p><b>32.18</b> To consider a proposal to start PG program in Telecommunications Technology and Management by IIIT-D, IIML, and ALTTC</p> <p><b>32.19</b> To consider a proposal on PhD Supervisor change</p> <p><b>32.20</b> Any other item with permission of the Chair</p>									
	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><b>Annexure No.</b></th> <th style="text-align: center;"><b>–</b></th> <th style="text-align: left;"><b>Item No.</b></th> </tr> </thead> <tbody> <tr> <td>Annexure-I</td> <td style="text-align: center;">–</td> <td>32.2, PNo. 9</td> </tr> <tr> <td>Annexure-II</td> <td style="text-align: center;">–</td> <td>32.3, PNo. 27</td> </tr> </tbody> </table>	<b>Annexure No.</b>	<b>–</b>	<b>Item No.</b>	Annexure-I	–	32.2, PNo. 9	Annexure-II	–	32.3, PNo. 27
<b>Annexure No.</b>	<b>–</b>	<b>Item No.</b>								
Annexure-I	–	32.2, PNo. 9								
Annexure-II	–	32.3, PNo. 27								

**THIRTY SECOND (32<sup>ND</sup>) MEETING OF SENATE OF IIT-DELHI**  
**AGENDA**

**GENERAL**

**32.1 Opening remarks of the Chairman, Senate**

**32.2 Confirmation of minutes of the 31<sup>st</sup> meeting of the Senate held on 01.12.2015.**

The minutes of the 31<sup>st</sup> meeting of the Senate held on 01.12.2015, placed at [Annexure-I, P-9](#) were circulated among the members. No comments have been received so far. The Senate may consider the same for confirmation.

**32.3 To consider End of Semester Summary Report (Monsoon 2015)**

A summary of various activities of academics undertaken in previous semester (Monsoon 2015) including performance of UG/PG/Ph.D. given in [Annexure-II-P-22](#) is placed before the Senate for consideration / information.

**32.4 Approval of Academic Calendar for Summer Semester 2016**

A copy of the Academic Calendar for Summer Semester 2016 will be placed on the table for approval.

**32.5 Approval from AICTE**

The Institute has applied for approval for extension and expansion for the Academic year 2016-17 and the case is under process.

**32.6 Approval from NBA for Accreditation of PG programs**

The Institute has applied to NBA for accreditation of two PG programs viz. M.Tech.(CSE) and M.Tech.(ECE) and the application is under process.

**UG ISSUES**

**32.7 Bonus Marks for BTech Admissions in 2016**

Details will be placed on the table.

**32.8 To consider increase in intake of B. Tech. programs**

Proposal will be placed on the table.

**32.9 To consider a proposal to start new B.Tech. (CS+Maths) program**

Proposal will be placed on the table.

**32.10 To consider recommendation of the UGC to allow a BTech student to do “extra credits”.**

The Senate at its 31<sup>st</sup> meeting held on 1.12.2015 had approved a proposal to allow BTech student to do “extra credits” beyond 152 credits required for completion of B.Tech. requirement, and for N extra credits done, allow worst grades in N credits, with a maximum limit of 8 credits, to be not counted towards CGPA computation. Further, the UGC was requested to work out the details for implementation.

Accordingly, the UGC at its 5<sup>th</sup> meeting held on 30<sup>th</sup> December,2015 considered the matter and has made the following recommendation for implementation:

“Chair UGC apprised the members of the decision taken by the Senate in its 31<sup>st</sup> meeting held on 1<sup>st</sup> Dec, 2015 approving B.Tech. students to do “extra credits” beyond 152 credits required for B.Tech degree completion. In addition, Senate approved for replacement of worst grades of N (less than equal to 8) extra credits to be not counted towards CGPA. The SGPA of each semester remains intact along with the grades of all courses done by student. Operational issues regarding the same needed to be discussed in the UGC meeting. Accordingly, as desired by the Senate, this item was taken up for discussion. After detailed deliberations, the members recommended the following method:

Method: (Automatically decide which extra credits to be not counted in CGPA)

- For CGPA computation at the end of 6th semester, baseline credits will be 116 (29 full courses). If a student has done N credits more than 116, then for CGPA computation the following will be done:
  - The worst grades in courses totaling M credits will be "removed", where  $M = \min\{8, N\}$ .
  - CGPA will be computed based on the remaining credits.
- For CGPA computation at the end of 7th semester, baseline credits will be 136.
- For CGPA computation at the end of 8th and subsequent semesters, baseline credits will be 152.

### **General Rules:**

- SGPA computation will remain the same for each semester.
- CGPA computation will remain the same for first 5 semesters, even if a student has done "extra credits."

For BTech Honors, UGC recommends to compute CGPA out of 156 credits provided total no. of credits are not below 164. The baseline credits for CGPA computation will be 116, 136, and 156 at the end of 6<sup>th</sup> sem, 7<sup>th</sup> sem, and 8<sup>th</sup> sem, respectively.

Senate may kindly consider and approve the above recommendation.

### **32.11 To report discontinuation of streams in UG programs**

As per decision taken by the Senate at its 31<sup>st</sup> meeting held on 1.12.2015 the streams in UG programs have been discontinued. Accordingly, the streams will not be shown in the Transcript although guidance on streams will be available on the website for information of the students.

The above is placed before the Senate for information.

### **32.12 To consider recommendation of the UGC to allow the UG students to repeat (Improvement) of a particular course**

The UGC at its 6<sup>th</sup> meeting held on 20.1.2016 has made the following recommendation:

“Chair UGC presented the issue raised by Student Senate regarding repeat of a course completed with pass grade. After detailed discussion, UGC recommended that improvement in a particular course may be allowed, but only the latest Grades (may be lower) in that course will be considered for CGPA computation. Also all attempts in that course will be recorded in the respective semester transcripts. This matter needs approval at the Senate level.”

Senate may kindly consider and approve the above recommendation.

### **32.13 To consider regulations regarding Electives in 2<sup>nd</sup> year for CSE students**

There is elective slot for BTech(CSE) students in each of the semester in 2<sup>nd</sup> year. Often, “engineering science” courses have been offered for these slots. The UGC at its 6<sup>th</sup> meeting held on 20.1.2016 has made the following recommendation:

“Chair UGC apprised the members regarding UG regulations on Engineering Science courses. She told that the UG curriculum as approved by Senate has one course slot for Engineering Science (ES) course for CSE students in 2<sup>nd</sup> year. However, UG Regulations do not have any mention of ES credits in degree completion requirement. UGC recommended forwarding this issue to Senate for clarification/decision.”

Since UG regulation is silent on the above issue, the Senate may kindly clarify what type of courses can be done in these slots.

## **PG ISSUES**

### **32.14 To report the status of Regular and Rolling PhD Admissions**

The following students have been admitted under Regular and Rolling PhD:

<b>Students selected through Rolling Admissions</b>			
S.No	Name	Discipline	Date of joining
1	Vijay Gahlawat	ECE	09.10.2015
2	Payal Garg	ECE	01.01.2016
3	Vanika Singhal	ECE	04.01.2016
4	Siddhant Jain	CSE	11.01.2016
5	Naina Gupta	CSE	05.01.2016
6	Nalla Anandakumar	CSE	04.01.2016

<b>Students selected through Direct Admissions</b>			
1	Prawendra Kumar	ECE	01.01.2016
2	Niharika Agrawal	ECE	01.01.2016
3	Vipin Kumar	ECE	01.01.2016
4	Ravneet Kaur Chawla	ECE	01.01.2016
5	Divya Sachdeva	CSE	01.01.2016
6	Srikanth Baride	CSE	01.01.2016
7	Anupriya Tuli	CSE	01.01.2016
8	Pravin Nagar	CSE	04.01.2016

### **32.15 To consider a proposal to start Ph.D. in Mathematics**

With the gradual development of the institute and availability of faculty experts in Mathematics the institute is now in a position to start academic research in this field.

Accordingly, it is proposed to start Ph.D. program in Mathematics from the Academic Year 2016-17 in the following areas:

1. Algebra
2. Number Theory
3. Graph Theory
4. Coding Theory

The eligibility criteria is same as for Ph.D. in CSE/ECE disciplines with one additional essential requirement:

"Essential qualification (for Mathematics students)- JRF from either UGC or CSIR or NBHM or GATE qualified."

The regulation for this program will remain the same as for Ph.D. program in general. For special requirements, if any, the details will be worked out by PGC in consultation with the concerned faculty/area experts.

Senate may kindly consider and approve the above proposal.

### **32.16 To ratify the approval given by the Director (Chairman, Senate)**

In the initial M.Tech. (CB) regulation of 2014, following was provided for allowing 4 credit of IS/IP whereas the same was not mentioned in the current (2015) regulation:

**“In electives, at most 4 credits of “Independent Study/Project” can be taken”.**

Director (Chairman, Senate) has now accorded his approval for adding the above provision in the 2015 regulation of M.Tech. (CB). Senate may kindly approve and ratify the approval given by the Director (Chairman, Senate).

### **32.17 Recommendation / Report by PGC:**

The Senate at its 29<sup>th</sup> meeting held on 21.4.2015 had agreed to the recommendation of the PGC and decided that M.Tech. and Ph.D. students be allowed replacement up to two courses as and when the request is made by the concerned student.

Subsequently, the PGC at its 12<sup>th</sup> meeting held on 13.1.2016 has made the following clarification with regard to replacement of courses:

“Arising out of discussions the PGC with respect to its earlier recommendation ( 7<sup>th</sup> meeting held on 1.4.2015 vide item No.5) clarified that replacement up to two courses by PG student (M.Tech. and Ph.D.) will be allowed after publication of result provided it does not result in underload.”

Senate may kindly consider and approve the above recommendation.

**32.18 To consider a proposal to start PG program in Telecommunications Technology and Management by IIT-D, IIML, and ALTTC**

Prof Anand Srivastava will brief the Senate about the possibility of starting a PG program in Telecommunications Technology and Management by IIT-D, IIML, and ALTTC.

**32.19 To consider a proposal on PhD Supervisor change**

Dean of Academic Affairs will present the proposal at the time of meeting.

**32.20 Any other item with permission of the Chair.**



**Minutes of the 31st Senate meeting of IIIT-D held on 1<sup>st</sup> December, 2015 at 03.30 PM in the Senate Room, B-wing, R&D Building, Okhla Industrial Estate, Phase-III, New Delhi-110020**

***Following members were present:***

- |                            |                               |
|----------------------------|-------------------------------|
| • Prof. Pankaj Jalote      | - Chairman                    |
| • Prof. K.K. Biswas        | - External Member             |
| • Prof. Dheeraj Sanghi     | - Ex-Officio Internal Member  |
| • Dr. Astrid Kiehn         | - Ex-Officio Internal Member  |
| • Prof. G.S. Visweswaran   | - Ex-Officio Internal Member  |
| • Dr. Vinayak Nayak        | - Ex-Officio Internal Member  |
| • Dr. Anubha Gupta         | - Ex-Officio Internal Member  |
| • Dr. Angshul Majumdar     | - Internal Member             |
| • Mohd. S. Hashmi          | - Internal Member             |
| • Dr. Sriram K.            | - Internal Member             |
| • Dr. Sujay Deb            | - Internal Member             |
| • Mr. Ashwani Kumar Kansal | - Secretary                   |
| • Ms. Shreya Singh         | - UG Students' Representative |

***Following member attended via telecon:***

- |                       |                   |
|-----------------------|-------------------|
| • Prof. Anshul Kumar  | - External Member |
| • Mr. L V Subramaniam | - External Member |

***Special Invitees:***

- |                        |                      |
|------------------------|----------------------|
| • Dr. Pushpendra Singh | - Faculty-IIITD      |
| • Mr. K.P. Singh       | - Incharge, Academic |
| • Ms. Sheetu Ahuja     | - AM -Academics      |
| • Mr. Ashutosh Brahma  | - JM (Academic)      |
| • Ms. Anshu Dureja     | - JM (Academic)      |
| • Ms. Priti Patel      | - JM (Academic)      |

**THITYY FIRST (31<sup>ST</sup>) MEETING OF SENATE OF IIT-DELHI**  
**(held on 1<sup>st</sup> December, 2015)**

**MINUTES OF THE MEETING**

**General**

**31.1 Opening remarks of the Chairman.**

The Chairman welcomed all to the meeting. Thereafter, agenda items were taken up for discussions.

**31.2 Confirmation of minutes of the 30<sup>th</sup> meeting of the Senate held on 18.8.2015**

Since there were no comments, the minutes of the 30<sup>th</sup> meeting of the Senate held on 18.8.2015 were confirmed.

**31.3 Approval of Academic Calendar for Winter Semester 2016**

The Senate approved the Academic Calendar for Winter Semester 2016 placed at **Appendix-I**.

The Academic Section in its working calendar will earmark schedule for TA allocation (e.g., 1<sup>st</sup> December for starting the process and 15<sup>th</sup> December for initial allocation. Similarly 1<sup>st</sup> July and 15<sup>th</sup> July could be the dates for the Monsoon semester).

**31.4 Approval from AICTE**

The Senate noted with satisfaction the approval given by AICTE for change of site, two additional PG programs, i.e., M.Tech. in CSE (Mobile Computing) and M.Tech. in ECE (VLSI) from AY 2014-15 and extension of approval for the Academic year 2015-16.

**31.5 Approval for NBA Accreditation and proposed action for implementation.**

The Senate noted with satisfaction the approval received for NBA Accreditation of the B.Tech. (CSE) program for 5 years. The Senate desired to take follow up action as per suggestions of the NBA team. Help of the faculty teaching communication skill course may also be taken to procure good tools for the language laboratory.

## **FACULTY MATTERS**

### **31.6 To consider formation of Panel for selection committees for CSE, ECE, CB, and Math.:**

Chairman presented the background of the proposal and the list of experts in different areas belonging to various institutions/universities/organizations. During the course of discussions some more names were suggested by the members. After detailed discussions the Senate approved the names of experts listed in **Appendix-II**, for inclusion in the panel for Selection committees. The Senate also accorded post-facto approval for inclusion of the following experts on the Selection Committees:

Prof. Basabi Bhaumik, IIT-Delhi  
Prof. Ajit Chaturvedi, Professor IIT-Kanpur  
Prof. Varsa Apte, Professor IIT Mumbai  
Dr. Kaushik Saha, Samsung R&D  
Prof. Somenath Biswas, Director, IIIT-Allahabad

The Senate further authorized the Director (Chairman, Senate) to add more names of experts in future, if and when required.

## **UG ISSUES**

### **31.7 To consider a proposal to allow a BTech student to do “extra credits”.**

Prof. Dheeraj Sanghi, Dean of Academic Affairs presented the background of the proposal to allow B.Tech. students to do “extra credits” beyond 152 credits required for completion of B.Tech. requirement, and for N extra credits done, allow worst grades in N credits, with a maximum limit of 8 credits, to be not counted towards CGPA computation. The impact of this decision will be reviewed after two batches have graduated with this option. The UGC was requested to work out the details for implementation.

### **31.8 To report attendance in the UG Core Courses**

Chairman apprised the members of the earlier decisions of the Senate regarding taking of attendance in core courses vide its 26th meeting held on 25th June, 2014 and 30<sup>th</sup> meeting held on 18.8.2015. A summary of attendance in the core Courses run during Monsoon 2015 semester was presented. He also apprised the members of the views expressed by some of the Coordinators. After detailed deliberations the Senate decided as under:

- i) Attendance in core courses of 1<sup>st</sup> year students shall continue to be taken regularly

- ii) Attendance to be shared with Instructors and the students periodically (preferably once a month)
- iii) For this semester, letters to be sent to the parents of the students who have attendance less than 50% in any course and the corresponding grade falling below 'B-'.
- iv) Senate further suggested that from the next semester, faculty can have different strategies for students having low attendance such as grade reduction, having a weight for attendance in the grade, sending letters, not allowing to appear for the end-semester exam etc. This is same as what instructors are allowed to do in courses other than core courses already.
- v) It was also agreed that one approach for core courses will be to send a warning letter after midsem to all those students whose attendance is less than 75% and who are performing poorly – students under this warning will have to attend all lectures after the mid sem, failing which they may be put under academic probation, and letters sent to their parents. Similarly, at the end of semester time if the attendance is poor and the grade is below B-, a warning letter may be sent to the students and parents, and the student may be placed under academic probation for next semester.

### **31.9 Recommendation / Report by UGC**

#### **(i) To consider the recommendation for reconstitution of UGC**

The Senate agreed to the recommendation of the UGC after making some minor changes and reconstituted the UG Committee as under:

1. Chair, UGC - Chairperson
2. DOAA
3. Past UGC Chair
4. PGC Chair
5. UG - CSE Coordinator
6. UG- ECE Coordinator
7. Non –CSE/ECE member (currently Prof. Samaresh Chatterji)
8. Students' Representative (UG-CSE)
9. Students' Representative (UG-ECE)

Ms. Sheetu Ahuja- Standing Special Invitee

Ms. Anshu Dureja- Secretary

#### **(ii) To consider recommendation of UGC for discontinuation of streams in UG programs**

Chair, UGC, Dr. Anubha Gupta presented the recommendation related to streams in the UG programs made at the 3<sup>rd</sup> meeting of the UGC held on 7.10.2015. After detailed deliberations the Senate decided that streams in the UG programs be discontinued. However, the students may be guided about the courses belonging to a certain area during the course counseling session conducted at the beginning of the

semester. Guidance on streams should also be put on the website for information of the students.

**(iii) To consider guidelines for registration and evaluation of IP/UR/IS**

The Senate noted the recommendation of the UGC made at its 4<sup>th</sup> meeting held on 18.11.2015 regarding registration and evaluation of IP/UR/IS.

**31.10 Bonus Marks for BTech Admissions in 2016**

The Senate considered the proposal for awarding bonus marks as per details placed at **Appendix-III**. After detailed deliberations the Senate in principle agreed to the proposal with the following observations:

- i. To do comparison with NTSE, KVPY and INSPIRE to allot bonus marks to the proposed additional categories
- ii. Get data for the last three years
- iii. Get data from our students who participated in various categories in the past.

The Chairman, Senate was authorized to take a final decision for inclusion of additional categories and allocation of appropriate bonus marks to them.

**M.TECH. ISSUES**

**31.11 To consider modification of the M.Tech.(CB) regulation**

Chairman, Senate apprised the members of the earlier decision of the Senate made at its 29<sup>th</sup> meeting held on 21<sup>st</sup> April 2015 and the subsequent review of M.Tech. program by the experts from academia and industries. Dr. Sriram K who was present at the meeting also presented the salient features of the program. The Senate discussed the matter in detail and after making a few minor changes ratified/approved the revised M.Tech. (CB) program and the revised M.Tech.(CB) regulation placed at **Appendix-IV** and **Appendix-V** respectively. Any compulsory course may be added to the M.Tech. (CB) program only with the prior approval of the PGC.

**31.12 To consider allocation of seats for admission to M.Tech. programs in the Academic Year 2016-17.**

Chairman, Senate informed the members that at present 98 GATE fellowships are sanctioned by the AICTE in the two disciplines (CSE & ECE). For the new M.Tech. (CB) program fellowship is expected to come from DBT. After detailed discussions, the Senate approved the allocation of seats for admission to M.Tech. programs as follow with a provision for an increase up to 10% in each specialization to take care of the drop outs:

Program	No. of seats for
---------	------------------

	<b>2016-17</b>
M.Tech. (CSE)	80
M.Tech. (ECE)	60
M.Tech. (CB)	24
Total	164

### **31.13 Recommendation / Report by PGC:**

Dr. Vinayak Naik, Chair, PGC presented the recommendations of the PGC made at its 10th PGC meeting held on 30.9.2015 regarding undertaking of Industrial Project, replacement of courses and completion of at least 32 credits of course work in one's own discipline by the students doing Industrial project. The Senate approved the recommendations.

### **Ph.D Issues**

#### **31.14 To report the status of Rolling PhD Admissions**

##### **Rolling PhD admissions:**

The Senate noted admission under the rolling PhD admission program, and emphasized that date of enrollment in the PhD program will be considered as the start of semester only. In case any faculty member wants the scholar to join early, such a scholar may be hired as an RA and payment may be made from project funds.

#### **31.15 Starting of a 2 credit course titled Scientific Communication**

Chairman, Senate apprised the members of the proposal for starting a 2 credit compulsory course titled "Scientific Communication" in 2015-16 Winter Semester for M.Tech. students. This course will be similar to the OOPD course started in the 2015-16 Monsoon Semester. Though this course is compulsory, the grade (normal grade) and the credits obtained in this course will not count towards CGPA and graduation requirements. After detailed deliberations the Senate approved the proposal.



### 31.1 Panels for Faculty Selection Committees

Names of experts in different areas are listed below. Any of these experts can be included in the panel for selection committee. If needed, other full Professors from IITK, IITD, IITB, IISc, and IITM may be empaneled – in such case the selection committee should be approved by the Chairman, Board of Governors.

#### ECE Experts

1. IITD: Ranjan Bose, Arun Kumar, Santanu Chaudhury, Basabi Bhaumik, M. Balakrishnan
2. IITB: Abhay Karandikar, Vikram Gadre, Dinesh Sharma,
3. IISc: A.CHOCKALINGAM, B. Sunderrajan, K.V.S. Hari,
4. IITM: K. Giridhar, S. Umesh, Amitava Dasgupta, IIT Madras
5. IITK: Animesh Biswas, L.Behara, Baquer Mazhari
6. ISI Kolkata: Susmita Sur-Kolay

#### From Industry / Labs:

1. Dr. Kaushik Saha, who already has an association with IIT/D:
2. Dr. Sudip Basu, Head, Automotive Electronics division at ST, Greater Noida
3. Dr. Chandra Shekhar , Director CSIR-CEERI, Pilani.
4. Vasantha Erraguntla, Director, Technology Pathfinding at Intel Corporation
5. Jaswinder Ahuja, Corporate Vice President and Managing Director at Cadence Design Systems
6. Alok Jain, Distinguished Engineer, Cadence
7. Rajeev Murgai, VP, Magma Design Automation
8. Shivkumar Kalyanaraman, IRL (smart energy, networks)
9. Satya Gupta, CEO, Concept2Silicon Systems, email: [satya.gupta@concept2silicon.com](mailto:satya.gupta@concept2silicon.com)
10. Dasaradha R Gude, Chairman, Soctronics, email: [gd@soctronics.com](mailto:gd@soctronics.com)
11. Niranjana Pol, Engineering Director, Seagate Technology: [niranjana.pol@seagate.com](mailto:niranjana.pol@seagate.com)
12. Dr. Nagi Naganathan, Principal, Avagotech: [nagi.naganathan@avagotech.com](mailto:nagi.naganathan@avagotech.com)
13. Saurabh Desai, CEO and vice president, einfochips: [saurabh.fsl@gmail.com](mailto:saurabh.fsl@gmail.com)

#### CSE Experts

1. IITD: Prem Kalra, Subhasis Banerjee, Naveen Garg, Anshul Kumar, Sanjiva Prasad
2. IITB: Sharat Chandran, Varsha Apte, Uday Khedkar, Shiva Kumar, Supratik
3. IITK: TV Prabhakar, RK Ghosh, Sumit Ganguly
4. CMI: Madhavan Mukund (also suitable for Math)
5. IITM: Prof Pandurangan
6. IITM: Prof. Krishna M. Sivalingam

7. IITKgp: Prof. Niloy Ganguly
8. IISc:
9. ISI Kol: Prof Sanghamitra Bandhopadhyay (director ISI Kol). She is a Bhatnagar awardee  
and works in areas with a lot of overlap with many of our faculties.

### **From Industry / Labs:**

1. Ravi Kothari, IBM IRL
2. Gautam Shroff, TCS
3. Sriram Rajamani, Dy MD, Microsoft Research
4. Chandu Thekkath, MD, Microsoft Research
5. Manish Gupta, MD, Xerox Research
6. Niranjan Thirumale, CTO, EMC India

### **Computational Biology Experts**

1. JNU - Indira Ghosh, and Andrew M. Lynn, Prof. Ram Ramaswamy
2. IIT Delhi: Prof. B. Jayram IIT Delhi, James Gomes, Basabi Bhoumik
3. IISc - Nagasuma Chandra, Prof. Manju Bansal
4. IIT B - Supratik Chakraborty (CS), Pramod Wangikar (ChE), K.v. Venkatesh (ChE)
5. IITK/IIT-A: Somenath Biswas (CS), FROM THEIR BIO PROGRAM
6. Georgia Tech: Srinivas Aluru
7. DU: Sanjay Jain

### **From Industry / Labs:**

1. IGIB: Dr. Rajesh Gokhale, Director:
2. Strand: Ramesh Hariharan, Vijay Chandru
3. Rajgopal Srinivasan -- TCS Innovation Labs, Hyderabad
4. Vani Brahmachari, from Ambedkar Center for Biomedical Research

### **Math Experts**

1. Rahul Roy (ISI Delhi), (Probability/statistics)
2. Abhay Bhatt (ISI Delhi), (Probability/statistics)
3. Probal Choudhury (ISI Kolkata), (Probability/Statistics)
4. Tithankar Bandyopadhyay (Calcutta University Statistics dept 15+ years; about 10 years at IIM Ahemdabad) (Statistics).
5. Madhavan Mukund (CMI, Computer science)
6. Vivek Borkar (IITB),
7. Mrinal Ghosh (IISc),
8. Ravi Kannan (MSR),
9. S. Kesavan (IMSc),

10. Abhay Bhatt/Rahul Roy (ISID),
11. Debasis Kundu (IITK)
12. Prof. Jaikumar Radhakrishnan, TIFR.
13. Prof. Dileep Patil, IISc.
14. Prof. Manindra Agarwal, IITK.
15. Prof. Meena Mahajan, IMSc.
16. Prof. V. Arvind, IMSc
17. Prof. Rahul Roy, ISI, Delhi
18. Prof. K.R. Parthasarathy, ISI Delhi
19. Sukumar Das Adhikari, Professor, Harish-Chandra Research Institute Allahabad.
20. Sudhir R. Ghorpade, Professor and Head, Department of Mathematics, IIT Bombay
21. Inder Bir Passi, INSA Senior Scientist and Honorary Professor (Mathematics), IISER Mohali,
22. Professor Emeritus, Center for Advanced Study in Mathematics, Panjab University,
23. R. B. Bapat, Professor, ISI Delhi
24. Rajendra Bhatia, Professor (Mathematics), ISI Delhi
25. Tarlok Nath Shorey, Distinguished Professor, Mathematics, IIT Bombay
26. Dipendra Prasad, Senior Professor, School of Mathematics, TIFR
27. Bimal K. Roy, Professor, Applied Statistics Unit, ISI Kolkata
28. Palash Sarkar, Professor, Applied Statistics Unit, ISI Kolkata.

**From Industry/Labs:**

- Avinash Dharmadhikari (15 + yrs at Pune University, Statistics dept; last 10 years at Tata Motors, Pune) (Statistics)

-----  
--

**Suggestions for Chairman's Nominees:**

1. Prof. BN Jain
2. Prof. Narendra Ahuja
3. Prof. Surendra Prasad
4. Prof. M. Balakrishnan
5. Manindra Agrawal
6. Krithi Ramamritham
7. Prof. Y. Narahari (currently, Dean of Engineering at IISc)
8. Prof. A.K. Chaturvedi, IIT Kanpur (he is Deputy Director now)

Last year, we considered students having scholarships/awards in below categories for giving bonus marks upto 10.

- **Olympiads. Indian National Olympiad in Informatics, Maths, Physics, Chemistry, and Biology: (i.e. IOITC, IMOTC, OCSC for Physics, Chemistry, or Biology);**  
6 marks, if the student qualified to appear in the National Level Exam for selection for the summer camp (i.e. INOI/INMO/INPhO/INChO/INBO)
- **Procon Junior programming contest**  
10 marks for the medal winners; Supporting documents needed: Certificate/letter from organizers certifying this.  
6 marks for those who got certificates of Achievement; Supporting documents needed: Certificate/letter from organizers certifying this.
- **National Talent Search scholarship**  
6 marks, if a student has won this scholarship. If a student gets this in a specific category, then he/she can only be considered in that category. Supporting documents needed: Certificate/grant letter
- **Kishore Vaigyanik Protsahan Yojana (KVPY)**  
6 marks, if a student has qualified for this scholarship. If a student gets this in a category, then he/she can only be considered in that category. Supporting documents needed: Certificate of merit/grant letter
- **Sports: Only sports listed in priority discipline of SGFI are considered**  
If a student has represented a state in any sport in "priority discipline" (as per terminology used by SGFI), except Chess (as Chess is dealt with separately), in National School Games organized by a School Games Federation of India, under U19 or U17 category (girls or boys): • 6 marks if the individual has participated in it. Supporting documents needed: Certificate for medal, or Certificate of participation issued by School Games Federation of India.
- **Chess. FIDE rating players:**  
10 marks for those whose FIDE rating is above 1800; Supporting documents needed: FIDE ID, Self-attested printout of list of international rated tournaments played as provided by FIDE through their official website. (Later participation certificates for these tournaments will have to be shown)  
6 marks for those whose FIDE rating is below 1800. Supporting documents needed: Same as above.
- **Culture: Scholarship to Young Artistes“ given by Ministry of Culture, Government of India, or “Cultural Talent Search Scholarship Scheme” given by Centre for Cultural Resources and Training**  
6 marks for those Student who have received “Scholarship to Young Artistes“ given by Ministry of Culture, Government of India, or “Cultural Talent Search Scholarship Scheme” given by Centre for Cultural Resources and Training an autonomous body under the aegis of Ministry of Culture, Government of India. Supporting documents needed: Scholarship sanction letter and certificate issued by Ministry of Culture, Government of India / Centre for Cultural Resources and Training, Government of India.

At the time of admissions some students and parent recommended certain more awards for consideration. The matter was discussed In Senate and Student Senate was asked to come up with other Scholarships/Awards of repute that may be considered for giving Bonus Marks to students. After detailed discussion Student Senate recommended below scholarships/awards for inclusion:

- **INSPIRE scholarship:** Offered by Govt. of India to top 1% in every board. Scholarship money valid only for BSc/MSc/MS programs. Therefore, students entering IIT Delhi do not get any money (BTech degree is not valid). However, extra marks can be given from our side. Each eligible candidate gets a certificate- Called SHE (Scholarship for Higher Education)- which can be checked at the time of admission. Link: <http://www.inspire-dst.gov.in/SHE.html>

Students who happen to be among the top 1% in 12th standard at their respective Board Examinations are eligible to apply

For year 2014

No of Applications: 35999

Valid applications: 27467

No. of offers made: 13612

- **INAO (Indian National Olympiad for Astronomy):** Similar to the Math/Phy/Che/Bio, an astronomy Olympiad is also organized where the top tesm represent India on an international platform. If Bio/Chem Olympiad winners get bonus points, even winners of the astronomy Olympiad should.Link: <http://olympiads.hbcse.tifr.res.in/subjects/astronomy>

Not much information is available on website

- **National Cyber Olympiad and National Science Olympiad:** Organized by the Science Olympiad foundation, it is held annually for each class- Although less prestigious than the INMO/ INPhO/ INChO/ INBO, it is a prestigious academic exam organized at the national level. Perhaps the top 50 rankers in each could be given bonus? Link: <http://www.sofworld.org/>

SOF is a Registered Not-For-Profit Organization Popularising Computer, Science, Mathematics and English Education among school children.

### Exam Structure for NCO

Class	Section	No. of Questions	Marks/Question	Total Marks
5 to 12	Logical Reasoning	10	1	10
	Computers & IT	35	1	35
	Achievers Section	5	3	15
	Grand Total	50		60

## Exam Structure for NSO

Class	Section	No. of Questions	Marks/question	Total Marks
11 and 12	Physics & Chemistry	25	1	25
	Achievers Section	5	3	15
	Mathematics/Biology	20	1	20
	Grand Total	50		60

During the academic year 2014-15, over 31500 schools from more than 1400 cities registered and millions of students appeared for the four Olympiad exams(NCO,NSO,IEO,IMO). These Olympiads were conducted across 19 countries.

- **Google-Code In:** Similar to Google Summer of code but for school students. Very prestigious international competition for coders at school level. Link: <http://www.google-melange.com/gci/homepage/google/gci2014>

Those who are selected for different Organizations may be considered for awarding bonus marks. Based on how many companies come in for taking students usually 15-20 students are selected each year.

- **Circuitrix:** The Student Senate also recommends top 10 rankers in Circuitrix (Electrical circuits competition- analogous to Procon jr. for computer science). Link: <http://techsonance.co.in/>

Its organized by TECHSONANCE. TECHSONANCE, a 16th National level technical symposium organised by ELECTRICAL ENGINEERING DEPARTMENT, OSMANIA UNIVERSITY, started off in the year 2000 with the aim of providing a platform for students all over India to showcase their technical skills.

- **National Sports Federation:** For he sports listed in National Sports Federation bonus marks may be given. Link: [http://www.olympic.ind.in/national\\_sports\\_federations.html](http://www.olympic.ind.in/national_sports_federations.html)

Website don't have much clarity

Appendix –IV

## **Motivation**

The genomic revolution in biology enables one to answer many questions in medical sciences like personalized medicine, the etiology of diseases like cancer, HIV, SARS etc, etc. However, answers to these questions are impossible without the support of powerful computational and statistical tools that helps to understand and uncover the underlying systems level regulatory mechanisms (such as network design principles) responsible for diseases. With the advent of new biotechnological techniques, massive amounts of genomics data are generated at a rapid pace from the experiments and analysis of these data requires tremendous amount of domain knowledge, solid computational background and good programming skills. This has led to the development of a highly interdisciplinary field of Computational Biology and Bioinformatics which consists of a good amount of understanding of molecular biology, genomics, algorithms, programming, statistical computation, machine learning, stochastic processes, and other mathematical techniques that underlie biological design principles.

For developing skilled manpower for this field, an interdisciplinary program is needed which combine suitable aspects of biology, statistics, algorithms and mathematical models to analyze large-scale genomic and biological data in one program in a focused and strategic manner.

Currently few Institutions have strength and capability to offer interdisciplinary education in this area. IIT-Delhi, with its strong focus on research, and with a good faculty in various CS and EE as well as Computational Biology, is well suited to offer such an interdisciplinary program of computing and biology. The proposed MTech program aims to train students in the key aspects of computing, bio informatics, and analysis of biological systems through the use of modeling and analytics.

## **Where the Graduates of this Program will be placed**

This program fills a vacuum by creating manpower that can solve biology problems using computational techniques and data. Such manpower is needed in companies in life sciences, as they are generating large amounts of data and need manpower that understands the data and can apply computational techniques to analyze it and answer questions.

Types of plausible Bio companies that may require students with CB background are Nucleome Informatics Pvt Ltd. <http://www.nucleomeinfo.com> (provide bioinformatics solutions to academic and industrial customers), Cellworks: <http://cellworksgroup.com> (systems biology approach to diseases and therapy), and Xerox research india etc.

As student is building strength in computer science, as well as mathematical modeling through the biology courses, they can also find opportunities in IT companies that provide services and solutions to companies working Life Science, Medicine, etc. These can include: TCS Life Sciences, Strand Genomics, and persistent systems. Already we are in the process of engaging scientists working in Strand Genomics to take part in lectures, and thesis/internship guidance.

An important career option for graduates of this program will be in Research – pursuing a PhD and then going for a research career. This is one of the most exciting possibilities, as R&D in Computational Biology and Life Sciences in general has great potential. Graduates of this

program should be sought after by many computational and systems biology research groups across the world, including India. (To facilitate this option, the Institute will write to top departments in India and across the world and inform them about the strength of our program.)

### **Structure of the Program**

The program will focus on strengthening key computer science capabilities needed for solving biology problems, and in developing skills in bio-informatics, techniques for modeling biological systems, analysis approaches for biological data, etc.

As this is an interdisciplinary program, it will have some modules to build the basic foundations in the two disciplines. These modules will be compulsory but will not count towards the credit requirement. Current modules are mentioned here. The PGC can modify these modules, or add/delete them.

- One intensive refresher course on Programming and Data Structures, and one refresher modules on Cell Biology and Biochemistry. (These are to be done during the summer before the start of the first semester).

Refresher module on Advanced Programming and Technical Communication, to be done during the first two semesters.

In the MTech program, the student will do 32 credits of courses (in addition to the courses mentioned above), and a Thesis. For courses, up to 12 credits can be from CSE courses from a list of courses approved by the PG Committee. Some of them may be compulsory. Currently the list of approved courses is:

- a) Graduate Algorithms (or equivalent) - Compulsory**
- b) HipC**
- c) Machine learning**
- d) Bigdata analytics**
- e) Probabilistic Graph models**

The student will have to do a minimum of 20 credits of course work in Computational Biology – a few will be compulsory as defined by PG Committee, others will be electives. A sample of list of courses is given below – this list will evolve over time.

- a. Foundations of Modern biology**
- b. Practical Bioinformatics**
- c. Systems and Synthetic Biology**
- d. Introduction to mathematical biology**
- e. Stochastic Simulations in Systems Biology and Biophysics**
- f. Molecular mechanics and Biological physics**
- g. Computational Neuroscience**
- h. Biostatistics**
- i. Function Genomics and Data mining**

**Thesis:** Student will be required to do a thesis in Computational Biology – there is no scholarly paper option.

**Note:** A subset of these courses will be used for Minor in CB for BTech students.

### **Intake of students for MTech (CB) program**

Intake in interdisciplinary program is always a challenge. Often an interdisciplinary program can benefit from taking students from different backgrounds. As the program focuses on CB, but will build sufficient CS background for graduates to use CS tools and techniques for CB problems, it will require some background in these areas. It will be best if the incoming students have: (i) decent programming knowledge and (ii) good math background

With this, the eligibility criteria for input to this program is proposed as:

(1) B.Tech/BE in CS/IT/Math-and-Computing

Or

(2) B.Tech/BE in any other discipline and must have done in their programme:

- at least one computer programming course, and
- at least two mathematics courses

All applicant must have a valid GATE score (2014/2015). They must have a CGPA of at least 6.5 out of 10 or 65% in B.Tech/BE and 60% in all previous degree including 10+2.

IIIT-Delhi provides relaxation to SC, ST, OBC, PwD and CW category candidates. Specially, candidates under these categories must have CGPA of at least 6.0 out of 10 or 60% in B.Tech/BE and 55% in all previous degree including 10+2.

### **Fee Waiver and Scholarships**

The institute will reduce the overall MTech fee by half for students in the first batch. The Institute hopes to find scholarships for students through DBT.

Appendix- V



INDRAPRASTHA INSTITUTE of  
INFORMATION TECHNOLOGY DELHI

Okhla Industrial Estate, Phase III  
New Delhi 110020  
[www.iiitd.ac.in](http://www.iiitd.ac.in)

## **Regulations for MTech in Computational Biology (CB)**

### **31.2 Preamble**

The genomic revolution in biology enables one to answer many questions in medical sciences like personalized medicine, the etiology of diseases like cancer, HIV, SARS etc, etc. However, answers to these questions are impossible without the support of powerful computational and statistical tools that helps to understand and uncover the underlying systems level regulatory mechanisms (such as network design principles) responsible for diseases. With the advent of new biotechnological techniques, massive amounts of genomics data are generated at a rapid pace from the experiments and analysis of these data requires tremendous amount of domain knowledge, solid computational background and good programming skills. This has led to the development of a highly interdisciplinary field of Computational Biology and Bioinformatics which consists of a good amount of understanding of molecular biology, genomics, algorithms, programming, statistical computation, machine learning, stochastic processes, and other mathematical techniques that underlie biological design principles.

For developing skilled manpower for this field, an interdisciplinary program is needed which combine suitable aspects of biology, statistics, algorithms and mathematical models to analyze large-scale genomic and biological data in one program in a focused and strategic manner.

Currently few Institutions have strength and capability to offer interdisciplinary education in this area. IIT-Delhi, with its strong focus on research, and with a good faculty in various CS and EE as well as Computational Biology, is well suited to offer such an interdisciplinary program of computing and biology. The proposed MTech program aims to train students in the key aspects of computing, bio informatics, and analysis of biological systems through the use of modeling and analytics.

### **Structure of the Program**

The program will focus on strengthening key computer science capabilities needed for solving biology problems, and in developing skills in bio-informatics, techniques for modeling biological systems, analysis approaches for biological data, etc.

As this is an interdisciplinary program, it will have some modules to build the basic foundations in the two disciplines. These modules will be compulsory but will not count towards the credit requirement. Current modules are mentioned here. The PGC can modify these modules, or add/delete them.

- One intensive refresher course on Programming and Data Structures, and one refresher modules on Cell Biology and Biochemistry. (These are to be done during the summer before the start of the first semester).

Refresher module on Advanced Programming and Technical Communication, to be done during the first two semesters.

In the MTech program, the student will do 32 credits of courses (in addition to the courses mentioned above), and 16 credits for a Thesis, for a total of 48 credits. For courses, up to 12 credits can be from CSE courses from a list of courses approved by the PG Committee. Some of them may be compulsory. Currently the list of approved courses is:

- a. **Graduate Algorithms (or equivalent) - Compulsory**
- b. **HipC**
- c. **Machine learning**
- d. **Bigdata analytics**
- e. **Probabilistic Graph models**

The student will have to do a minimum of 20 credits of course work in Computational Biology – a few will be compulsory as defined by PG Committee, others will be electives. A sample of list of courses is given below – this list will evolve over time.

- a. **Foundations of Modern biology**
- b. **Practical Bioinformatics**
- c. **Systems and Synthetic Biology**
- d. **Introduction to mathematical biology**
- e. **Stochastic Simulations in Systems Biology and Biophysics**
- f. **Molecular mechanics and Biological physics**
- g. **Computational Neuroscience**
- h. **Biostatistics**
- i. **Function Genomics and Data mining**

**Thesis:** Student will be required to do a thesis in Computational Biology – there is no scholarly paper option.

For the thesis credits, though the student has to register, he/she need not be physically present and can do the work while being outside the Institute

**Note:** A subset of these courses will be used for Minor in CB for BTech students.

### **Fee Waiver and Scholarships:**

The institute will reduce the overall MTech fee by half for students in the first batch. The Institute hopes to find scholarships for students through DBT.

### **Change history:**

July,2014 release

December,2015

## SEMESTER SUMMARY REPORT – MONSOON 2015

### 1. Summary of Courses Offered & Registrations

#### 3 Days modules conducted

Batch	Specialization	Module	Performance will count towards	Faculty Coordinator	Date	Enrollments
BTech 2014	ECE	MATLAB	S&S	Dr Sanjit Kaul	27 July - 29 July	58
	CSE & ECE	Java	for CSE- AP, for ECE - ELD	Dr Chetan Arora	30 July - 1 Aug	147
BTech 2013	ECE	EDA Tools	Some Course in Monsoon 2015	Dr Sanjit Kaul	27 July - 29 July	23
		Java		Dr Chetan Arora	30 July - 1 Aug	3
	CSE	SE Workshop	SE (Course is compulsory for students planning to register for SE course in Monsoon 2015)	Mr Manish Sharotiya	29 July - 1 Aug	38
BTech 2012	ECE	Java	Some Course in Monsoon 2015	Dr Chetan Arora	30 July - 1 Aug	NIL
	CSE	SE Workshop	SE (Course is compulsory for students planning to register for SE course in Monsoon 2015)	Mr Manish Sharotiya	29 July - 1 Aug	NIL

#### Courses Offered

Total No. of Courses offered	68	No. of CSE Electives Offered	22
No. of Core Courses Offered	12	No. of ECE Electives Offered	13
No. of Elective Courses Offered	56	No. of HSS Electives Offered	6
No. of New Courses Added	12	No. of BIO Electives Offered	3
No. of 2 Cr Courses Offered	4	No. of MTH Electives Offered	2
	3	No. of ECO or MGT Electives Offered	2
No. of Online Courses Offered	(2-CSE & 1-ECE)	No. of ENT, PHY, DES Electives Offered	3
		No. of Electives Offered in Dual Discipline	5

Maximum Class Size for Elective Courses	162
Average Class Size for Elective Courses	38.5
No. of Elective Courses with 5 students or less	3
No. of Elective Courses with 100 students or more	4
No. of Late Drop applications received	65

**Class strengths in Electives**

No. of Students	No. of Courses
1-5	3
6-10	8
11-30	19
31-60	15
61-100	7
>100	4

**List of courses with 5 or less students**

Couse No.	Course Name	Credit
CSE531	Multiagent Systems	4
CSE749	Network Anonymity and Privacy	4
ECE556S	Multimedia Compression (2 credit - New)	2

**BTech students registration for IP/IS/UR/BTP**

No. of students registered for IP	73
No. of students registered for IS	8
No. of students registered for UR	10
No. of students registered for BTP	65

**PhD students registration for IP/IS**

PhD Students registered for IS	2
--------------------------------	---

**MTech Students registration for Project based courses**

No. of students registered for Thesis	62
No. of students registered for Scholarly Paper	18
No. of students registered for Industrial Project	8
No. of students registered for Capstone Project	1
No. of students registered for Independent Project	5
No. of students registered for Independent Study	6

## 2. Summary of Attendance in Core Courses

Sno.	Name of the course	Less than 50%	Less than 70%	Less than 75%	Greater than 75%	Total Strength
1	Introduction to programming	15	49	62	149	211
2	Digital Circuits	8	27	49	149	198
3	Maths1	14	45	65	135	200
4	System Management	8	46	68	132	200
5	Communication skills	11	49	88	110	198
6	Discrete Mathematics	17	57	75	63	138
7	Embedded logic design	3	12	15	40	55
8	Advanced Programming	13	57	69	80	149
9	Signals & systems	22	40	47	23	70
10	Linear Circuits	4	11	13	21	34
11	Maths3	8	26	34	66	100
12	Operating Systems	23	52	59	80	139

List of 1st Year students with overall attendance less than equal to 60% and SGPA less than 6.5

Roll. No.	Name	Attendance Percentage for all courses	Sem 1 SGPA
2015059	MOHD AZHAR TAK	48.39	5.2
2015071	PIYUSH CHOUDHARY	59.20	4.5
2015079	ROHIT RAJ	42.74	4
2015110	UTSAV ROHILLA	60.00	5.2
2015111	VAIBHAV KASHYAP	58.87	5.2
2015125	AKASH WAGRATH	50.40	4
2015156	PARTH TIWARI	52.85	6
2015166	SACHIN KUMAR	55.65	2
2015176	SHIV SOORMA	57.60	2.4
2015192	VIVEK RAJORA	48.78	4.8

**List of IInd Year students with overall attendance less than equal to 60% and SGPA less than 6.5**

<b>Roll No</b>	<b>Name</b>	<b>Attendance Percentage for all courses</b>	<b>SGPA</b>
2013002	Aashanvit Sheoran	52.44	3.4
2013003	Abhishek Chaudhary	51.22	5.2
2013037	Gaurav Yadav	57.32	4.4
2013153	Sahil Sahil	33.33	2
2014016	Aniket Kadiyan	37.80	3.4
2014024	Ashutosh Nandan	52.44	3.4
2014034	Darvesh Kumar Punia	54.88	4.2
2014050	Ishan Pandita	37.80	6.4
2014054	Kunal Sharma	57.32	6
2014066	Nickey Kumar	58.54	5.25
2014087	Rishi Mohan	51.22	5.4
2014107	Sudhir Kumar	56.10	4
2014119	Vipin Chaudhary	57.32	5.6
2014123	Yash Mohan Sherry	32.93	6.2
2014151	Paurush Rathi	46.67	5
2014162	Siddhant Gandhi	43.70	4.6

### **3. Examination**

<b>Date of Moderation</b>	7 Dec 2015
<b>Date of Declaration of Results</b>	11 Nov 2015
<b>No. of I-grades at the time of declaration of result s</b>	224
<b>No. of Grade Changes done</b>	12 (Approved:11, Not Approved: 1)
<b>No. of Students who missed Invigilation Duty</b>	2
<b>Unauthorized absence from exams</b>	12

### **4. Student Performance**

#### **BTech**

**Overall BTech student performance for Monsoon 2015**

SGPA Range	2015		2014		2013		2012	
	CSE	ECE	CSE	ECE	CSE	ECE	CSE	ECE
<=5	7	11	11	7	12	3	3	0
>5<=7	36	27	42	13	36	14	26	9
>7<=8	26	17	28	5	34	9	19	7

>8<10	48	18	39	7	35	8	78	22
=10	4	0	3	0	0	0	6	0
Total	121	73	123	32	117	34	132	38
Average	7.6	6.86	7.23	6.34	7.18	7.03	8.25	8.15

#### Students with Backlogs

No. of Back Logs	Ist Year	IInd Year	IIIrd Year	IVth Year	Vth Year	Total
1	16	12	16	4	1	49
2	3	5	3		1	12
3		3	2			5
4	1		2			3
5	1	1	1	1		4

#### List of students whose SGPA for this sem is 2 or lesser than previous sem SGPA

1	2013133	Farheen Shah
2	2013170	Vishal Ranjan
3	2011103	Shivangi Mehra
4	2012042	Ishita Ahlawat
5	2012087	Rohan Kumar
6	2012113	Tavneet Singh
7	2012091	Shagun Beniwal
8	2012146	Mukul Gupta

#### List of students whose SGPA for this sem is 2 or more than previous sem SGPA

1	2014101	Shubham Maheshwari
2	2014148	Mohd Shoaib Iqbal
3	2014120	Vishisht Khilariwal
4	2014098	Shivam Rustogi
5	2013090	Saransh Nahar
6	2013078	Ritvik Agarwal
7	2013081	Rupam Patir
8	2013126	Aneesh Kumar
9	2013082	Sahil Babbar
10	2013014	Aneesh Dogra
11	2013051	Kartik Maji
12	2013103	Sidhant Tickoo
13	2013048	Karan Grover
14	2013012	Amya Rai
15	2013032	Deepanshu Arora
16	2013059	Mayank Vachher
17	2013100	Shubham Sharma
18	2012149	Prateek Singh
19	2012147	Nikita Singh
20	2012167	Udayan Tandon

#### Warning Letters sent for Attendance

No. of BTech students sent warning because of low attendance and poor performance in first year courses	28
No. of students sent warning because of low attendance and poor performance in second year courses	50

## MTech

### Overall MTech student performance for Monsoon 2015

CGPA Range	M.Tech Batch	
	2014	2015
>=8.00	67	42
6.00-8.00	26	59
<6.00	0	6

### List of students with less than 6 CGPA

S.No	Roll No	Name	CGPA
1	MT15002	AASHISH GROVER	5
2	MT15019	HIMANSHU AGARWAL	5
3	MT15038	NAVEEN KUMAR PATIDAR	5.67
4	MT15047	PRIYANKA GUPTA	5.67
5	MT15053	RICHA GUPTA	5.67
6	MT15130	PARTHA PRATIM SAHA	5.67

### Students on Semester Extension

S No.	Roll No.	Name	Reason
1	MT13003	Amit Semwal	Delayed due to Medical
2	MT13031	Adarsh Kumar Dubey	One Bucket Course Left and Not Yet defended Thesis(Not registered yet)
3	MT13043	Navin Agarwal	Defended Thesis late, will be graduated with 2015 batch
4	MT13046	Prabhat Ranjan	No response from student, Thesis component left
5	MT13047	Prasoon	Registered for Thesis
6	MT13063	Dibyendu Talukder	No response from student, Thesis component left
7	MT13073	Prabhat Mishra	Registered for Scholarly paper.

### No. of MTech Thesis Defended and Industry Project/Capstone Project/Scholarly Paper submitted

S.No.	Course	Defense and Evaluation
1	Thesis	7
2	Scholarly Paper	3
3	Capstone Project	0
4	Industrial Project	8

## PhD

Name of the students who put under warning				
S.No.	Name	When	Reason	Status
1	Monalisa Jena	Aug-15	Due to poor review	Warning revoke w.e.f. Jan 2016
2	Megha Gupta	Sep-15	Due to poor review	Follow up review is scheduled on 8th Feb, 2016
3	Rahul Bajpai	Oct-15	Due to poor review	Warning continue till the end of Winter Sem 2016
4	Shiju S.	Jun-15	Due to low CGPA	CGPA has improved thus , warning revoked in Dec 2015
5	Ankita Deo	Dec-15	Due to low CGPA	Warning continue till the end of Winter Sem 2016

### Summary of Yearly Review July 2015

Rating	No. of Students	Remark
Excellent	6	
Good	50	
Average	7	
Below average	1	Academic Warning has been issued
Poor	2	
<b>Total</b>	<b>66</b>	

SNo.	Item	Aug	Sep	Oct	Nov	Dec	Total
1	No. of Comprehensive done	5			1	10	16
2	No. of Fellowships awarded	14		4			18
3	No. of Thesis Defended	2					2
4	No. of Students who were on semester Leave during the semester	1					1

### Highest Grade Info:

#### No. of Students who got A+ grades

Batch--->	2015		2014		2013		2012		Total
Program	Course	No. of Students who got A+	Course	No. of Students who got A+	Course	No. of Students who got A+	Course	No. of Students who got A+	
BTech	IP	7	AP	4	DSP	1	AN	2	
	DC	2	DM	2	DCS	1	CMOS	1	
	SM	1	OS	2			BTP	3	
			Theatre	1			CMP	1	
							CG	1	
							DMG	2	

						VLSI	1	
						SCM	2	
						IEA	1	
						ISC	2	
						LO	1	
						MC	2	
						MAD	1	
						NS	1	
						NLE	1	
						Phy	1	
						PA	1	
						SSIOT	2	
						T&S	1	
	<b>Total</b>	<b>10</b>	<b>9</b>	<b>2</b>			<b>27</b>	<b>48</b>
<b>MTech</b>	OOPD	1						
	<b>Total</b>	<b>1</b>						<b>1</b>
<b>PhD</b>	CMP	1			SSIOT	1		
	SSIOT	1						
	RS	1						
	<b>Total</b>	<b>3</b>				<b>1</b>		<b>4</b>

List of Students who got A+ Grade				
Roll No.	Name	Pogram	Course Name	No. of A+ Grades
2012016	Alakh Dhruv Chopra	BTech/CSE	Linear Optimization, Modern Algorithm Design	2
2012020	Anisha Agrawal	BTech/CSE	Non Linear Editing	1
2012029	Ayush Goel	BTech/CSE	Compilers	1
2012039	Harkirat Singh Lamba	BTech/CSE	Technology and Society, Physics	2
2012044	Juhi Jetwani	BTech/CSE	Introduction To Spatial Computing	1
2012050	Kriti Pandey	BTech/CSE	Effective Supply Chain Management for E-Commerce Businesses	1
2012056	Mansi Vijh	BTech/CSE	Effective Supply Chain Management for E-Commerce Businesses	1
2012059	Megha Arora	BTech/CSE	Data Mining	1
2012062	Mrinal Kachhara	BTech/CSE	Advanced Networks	1
2012064	Neeraj Kumar	BTech/CSE	Network Security	1
2012075	Prasant Chidella	BTech/CSE	Introduction To Spatial Computing, Smart Sensing for Internet of Things	2
2012082	Pulkit Arora	BTech/CSE	Introduction to Economic Analysis, Mobile Computing	2

2012088	Sarthak Ahuja	BTech/CSE	Computer Graphics	1
2012108	Sukrit Kalra	BTech/CSE	Advanced Networks	1
2012122	Abhinav Jadon	BTech/ECE	Smart Sensing for Internet of Things	1
2012131	Ayush Verma	BTech/CSE	Data Mining	1
2012139	Inderdeep Singh	BTech/ECE	BTech Project	1
2012141	Magus Verma	BTech/CSE	Mobile Computing	1
2012155	Rajat Kashyap	BTech/ECE	BTech Project	1
2012160	Shreya Singh	BTech/ECE	Digital VLSI Design, Analog CMOS Design, BTech Project	3
2012163	Shuktika Jain	BTech/CSE	Program Analysis	1
2013146	Parth Shrivastava	BTech/ECE	Digital Signal Processing	1
2013165	Tanay Kabra	BTech/ECE	Digital Communication Systems	1
2014004	Adesh Pandey	BTech/CSE	Advanced Programming	1
2014006	Agam Singh Bajaj	BTech/CSE	Theatre Appreciation	1
2014012	Ambar Pal	BTech/CSE	Discrete Mathematics	1
2014038	Divam Gupta	BTech/CSE	Advanced Programming	1
2014041	Gursimran Singh	BTech/CSE	Advanced Programming	1
2014089	Rounaq Jhunjhunu Wala	BTech/CSE	Advanced Programming	1
2014096	Satyam Kumar	BTech/CSE	Discrete Mathematics	1
2014098	Shivam Rustogi	BTech/CSE	Operating Systems	1
2014099	Shrey Bagroy	BTech/CSE	Operating Systems	1
2015039	Hasan Kamal	BTech/CSE	Introduction to Programming	1
2015050	Lamha Goel	BTech/CSE	Introduction to Programming	1
2015051	Luv Sharma	BTech/CSE	Introduction to Programming	1
2015069	Parth Mittal	BTech/CSE	Introduction to Programming	1
2015076	Rishabh Garg	BTech/CSE	Introduction to Programming	1
2015101	Siddharth Sundar	BTech/CSE	Introduction to Programming, Digital Circuits, System Management	3
2015120	Abhinav Khattar	BTech/ECE	Introduction to Programming	1
2015184	Tushar Kataria	BTech/ECE	Digital Circuits	1
MT15032	MAURYA KAVITA DINESH	MTech (CSE)/IS	Object Oriented Programming and Design	1
PhD1307	Haroon Rashid	PhD/CSE	Smart Sensing for Internet of Things	1
PhD15005	Dhriti Khanna	PhD/CSE	Compilers	1
PhD15102	Gade Narayana Sri Harsha	PhD/ECE	Smart Sensing for Internet of Things	1
PhD15105	Shelly Vishwakarma	PhD/ECE	Radar Systems	1

## 5. Summary of TA/RA Work

### MTech

Sl.No.	Particulars	Numbers
1	Total Number of M.Tech TA	180
2	Total TA with Satisfactory Performance	173
3	Total TA with unsatisfactory Performance	7

### PHD

Month	Total No. of Students	No. of students with Attendance less than 75%	No. approved leaves/ Advisor confirmations	No. of students for whom Fellowship was Deducted
Sep-15	48	8	8	0
Oct-15	48	13	13	0
Nov-15	48	8	6	2

## 6. Admissions PhD

### Rolling Admissions (Aug - Dec 2015)

For the month	No. of students selected through rolling	Date of joining	Name of Student	Remark
Sep-15	3	10/06/2015	Surbhi Arora	
		Jan-16	Vanika Singhal	
		Jan-16	Vijay Ghalawat	Sponsored
Oct-15	1	17/11/2015	Aakarsh Malhotra	
Nov-15	1	Jan-16	Nalla Anadakumar	Sponsored
Dec-15	1	Jan-16	Siddhant Jain	
<b>Total</b>	<b>6</b>			

## 7. Student Interactions & Meetings Conducted

### Interactions with Students

Group of Students	Date of Interaction	Agenda
All Students	3 & 4 Aug 2015	Course Registration Guidance
BTech 2013 Batch	17 & 18 Sep 2015	Guidance on Importance & type of skills that are important
BTech 2014 Batch	7 & 10 Sep 2015	
BTech 2015 Batch	08-Sep-15	

PhD	08-Sep-15	Regular Interaction
MTech CSE	8-Oct-15	Regular Interaction
MTech ECE	9-Oct-15	Regular Interaction

#### UGC/PGC Meetings done

Item	Nos.
UGC Meetings	3
PGC Meetings	4

No. of Open House sessions conducted during the semester

## 8. Other Statistics

#### No. of International /National conference attended by students

Programme	No. of National Conferences attended	No. of International Conferences attended
BTech	0	0
MTech	10	0
PhD	5	8

#### No. of students who have withdrawn from the Programme

Programme	No. of Withdrawals
BTech	5
MTech	10
PhD	1

#### No. of Students who were on semester Leave during the semester

Programme	Nos
BTech	1
MTech	0
PhD	1

#### No. of non-degree visiting students

Sl.No.	Particulars	Nos.
1	Number of Applications	3
2	Number of Selected Applications	0

#### Counsellor Visits

Item Name	Aug	Sep	Oct	Nov	Dec	Total
No. of Visits	6	8	9	8	0	31