



AGENDA

Thirty Eighth (38th) Meeting of SENATE of

Indraprastha Institute of Information Technology Delhi

Date: 11th July, 2018

Day: Wednesday

Time: 03.30 PM

Venue: Senate Room, B-wing, 5th Floor,
Old Academic Building, IIIT-D Campus,
Okhla Industrial Estate, Phase-III,
New Delhi-110020

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THIRTY EIGHTH (38th) MEETING OF SENATE OF IIT-DELHI

AGENDA

GENERAL

38.1 Opening remarks of the Chairman, Senate

38.2 Confirmation of minutes of the 37th meeting of the Senate held on 30.01.2018

The minutes of the 37th meeting of the Senate held on 30.01.2018, placed at [Annexure-I](#), were circulated among the members. No comments have been received so far. The Senate may kindly consider the same for confirmation.

REPORTING ITEMS

38.3 To report Academic calendar for Summer Semester 2018

A copy of the Academic Calendar for Summer Semester 2018 is placed at [Annexure-II](#) for approval of the Senate.

38.4 To report Academic Calendar for Monsoon Semester 2018

A copy of the Academic Calendar for Monsoon Semester 2018 is placed at [Annexure-III](#) for approval of the Senate.

38.5 To consider nomination of members to Academic Senate

Nominations will be placed on the table.

38.6 To report Approval from AICTE for the Academic year 2018-19

We have received the EOA(Extension of Approval) from AICTE for the Academic Year 2018-19. The good news is that our application for new programme " CSP" is also approved. So, now we can pay the AICTE stipend to a total of **150** MTech students; Programme-wise details are as under:

Level	Programme (as per AICTE)	Seat	Remark
PG	COMPUTER SCIENCE	30	Extension
PG	MOBILE TECHNOLOGY	30	Extension
PG	INFORMATION SECURITY	30	Extension
PG	ELECTRONICS & COMMUNICATION ENGG	30	Extension
PG	COMMUNICATION AND SIGNAL PROCESS	30	New

UG	COMPUTER SCIENCE AND ENGINEERING	120	Extension
UG	ELECTRONICS & COMMUNICATIONS ENGG	60	Extension

38.7 To report status of application to NBA for Accreditation of B.Tech(ECE) program

We have applied for accreditation for our B.Tech(ECE) program. A committee of five ECE faculty has been formed to provide input to fill the SAR. Once the SAR is filled the same will be submitted to NBA for further consideration.

38.8 To report the status of preparations for 7th Convocation scheduled for 25th August 2018.

Chairman, Senate will apprise the members at the time of meeting.

38.9 To report list of students completed graduation requirements on 21st May 2018.

A tentative list of students who completed graduation requirements as on 21 May, 2018 will be placed on table.

38.10 To report recommendations for various Awards/Medals

Recommendation for various Awards / Medals for the year 2018 will be placed on the table.

38.11 To report to the Senate about Increase in stipend for BTech TAs

Currently, UG TAs are being given stipend of Rs. 4000 per month. UGC apprised the members of the new stipend policy suggested by the Director. There will be two categories of stipend. First category is for 3rd Year UG TAs and who would be compensated with Rs. 4000 for 8-10 hours of effort. Second one is for the 4th year UG TAs who would be compensated with Rs. 8000 per month for 16-20 hours of efforts. After detailed deliberations, UGC came to the conclusion that it is not a good idea to discriminate among TAs. UGC recommended to have only one category of stipend and suggested to increase the current stipend to Rs.6000 per month for the effort of 8 hours per week.

38.12 To report the release of Regulations for various UG/PG programs (January/July 2018 release)

The following regulations for the specific UG/PG programs duly vetted by the respective program Coordinators/Chair UGC/PGC have been approved by the Chairman, Senate for release on the website:

1. 2018 January- Regulations for B.Tech (CSSS) Program
2. 2018 January- Regulations for M.Tech. in Computational Biology (CB)

3. 2018 July- Regulations for B.Tech. in Computer Science and Biosciences (CSB) Program
4. 2018 July-Regulations for MTech in Computer Science and Engineering with specialization in Artificial Intelligence

Senate may kindly approve the release of above Regulations.

38.13 To report the summary of our graduating students/alums gone for higher studies

Will be placed on the table.

38.14 To report the Alums and Students who got some fellowships from a great University in AY2017-18

Will be placed on the table.

38.15 To ratify the approval given by Chairman, Senate for implementation of National Academic Depository (NAD) at IIT Delhi

National Academic Depository (NAD) is an initiative of MHRD and has been established to ensure a digital and secure electronic storehouse of all academic records viz. degrees and mark sheets of an institution. It allows an academic institution to lodge the duly validated academic records on the depository. NAD consists of two inter-operable digital depositories viz. CDSL Ventures Limited (CVL) and NSDL, Database Management Limited (NDML). The academic institutions have been left free by MHRD to select either of these two depositories and enter into an agreement for utilizing the services of NAD. After careful consideration and comparisons of the two depositories the institute has signed the Service Level Agreement (SLA) with NSDL Database Management Limited (NDML).

Further, in a meeting held on 8th March, 2018 with DOAA, Registrar, Incharge (Academic) and Manager (Academic) regarding the processes to be followed for the NAD implementation, it was suggested that due to the complexity of academic transcripts, in terms of number of electives offered in each semester, the Image Based Model may be followed for the NAD implementation. Chairman, Senate has kindly considered the above suggestion and approved for implementation of NAD through Image Based Model.

Senate may kindly ratify the approval given by Chairman, Senate for implementation of NAD through Image Based Model.

38.16 To report admission of Foreign nationals to B.Tech. programs under ICCR scholarship scheme:

- | | | |
|------------------------------|------------------|----------------|
| (i) Phiri Mirriam | - Zambia | - B.Tech. CSE |
| (ii) Tano Agnini Biba Roxane | - Cote d' Ivoire | - B.Tech. CSSS |

38.17 To ratify the decision taken by Chairman, Senate to use UCEED rank for admission to B.Tech. CSD program. (Refer Item No.37.36)

Chairman, Senate has approved to use UCEED rank for admission to B.Tech. CSD program for the Academic year 2018-19. Senate may kindly ratify the decision taken by the Chairman, Senate.

38.18 To report the status of new/Rolling PhD Admissions

The details of admissions made to PhD program for the Academic year 2017-18 is mentioned below

S.No	Roll No	Date of Joining	Discipline	Student Name
1	PhD17113	23.01.2018	ECE	Khagendra Joshi
2	PhD18001	01.06.2018	CSE	Saurabh Gupta
3	PhD18002	05.06.2018	CSE	Hitkul
4	PhD18301	26.06.2018	Mathematics	Divya Khurana
5	PhD18201	11.06.2018	CB	Yogita Bansal

38.19 To ratify the decision taken by Chairman Senate for award of PhD Degrees.

S.No	Roll No	Name	Discipline	Advisor Name	Defense Date	Thesis Title	Degree Date
1	PhD1007	Pandarasa my Arjunan	CSE	Dr. Amarjeet Singh & Dr Pushpendra Singh	23.02.2018	Middleware Systems and Analytics for Identifying Abnormal Energy Usages in Buildi	21.05.2018
2	PhD1322	Naushad Ansari	ECE	Dr Anubha Gupta	21.03.2018	Wavelet Transform Learning and Applications	21.05.2018
3	PhD1311	Tarun Kumar Bansal	CSE	Dr. Donghoon Chang, Dr. Josef Pieprzyk, Dr. Somitra Sanadhya & Dr. Xavier Boyen	25.04.2018	Designing Generic Asymmetric Key Cryptosystem with Message Paddings	21.05.2018

38.20 To report PhD students who have withdrawn from the program from Dec 2017 to June 2018

S.No	Roll No	Discipline	Name	Date of Joining	Date of Leaving	Reason of Leaving
1	PhD1317	CSE	Abhishek Kumar	06.01.2014	31.12.2017	Resigned, on personal grounds
2	PhD1212	CSE	Amit Kumar Chauhan	08.03.2013	31.12.2017	Resigned, on personal grounds

3	PhD16111	ECE	Garima Gupta	01.08.2016	16.01.2018	Resigned, Was under academic warning from Monsoon 2017
4	PhD1331	ECE	Yagya Dutt Mishra	22.05.2014	09.02.2018	Migrated to Mtech
5	PhD1106	CSE	Shruti Chhabra	18.07.2011	15.01.2018	Migrated to Mtech
6	PhD15018	CSE	Naina Gupta	05.01.2016	09.07.2018	Resigned, due to personal reasons

38.21 To report the number of Ph.D. students on the rolls of the institute and their year-wise distribution as well as status (i.e. list of Ph.D. students with below 3 yrs old, between 3 and 4 years, between 4 and 5 and more than 5 years and their respective status.

Will be placed on the table.

38.22 To report the order of the Hon'ble Delhi High Court in the Writ Petition No.WP(C) 5412/2017,filed by Pooja Goel against the 85% reservations for Delhi school children

Mrs. Pooja Goel had filed a Writ Petition against the Govt. of NCT of Delhi and others against the 85% reservations for Delhi school children. When the matter came up for hearing on 12.10. 2017 the learned counsel for petitioner under instructions sought permission to withdraw the petition with liberty to the petitioner to file a fresh petition to challenge the 53 (f) vires of the **Delhi Professional Colleges or Institutions (Prohibition of Capitation Fee, Regulation of Admission, Fixation of Non-Exploitative Fee and Other Measures to Ensure Equity and Excellence) Act, 2007**. The Hon'ble Delhi High Court granted permission to withdraw and disposed of the Petition in the above terms. **The matter therefore, stands closed.**

38.23 To report the order of the Hon'ble Delhi High Court in the Writ Petition No.WP(C) 5390/2017,filed by Mr. Ashwini Kumar Singh, a Diploma Holder, for admission to B.Tech. program under Lateral entry

Mr. Ashwini Kumar Singh, a Diploma holder, had filed a Writ Petition No.WP(C) 5390/2017, against Union of India and Ors. for admission to B.Tech. program under Lateral entry. After a number of hearings held in the past, the said writ petition came up for hearing on 17.5.2018 and on the request of the counsel for the petitioner, the Hon'ble Delhi High Court has dismissed the petition as withdrawn. **The matter therefore, stands closed.**

UG RELATED MATTERS

38.24 To consider a proposal to review the existing Regulation for the Dual Degree Program in Computer Science and Engineering(CSE) and Electronics and Communications Engineering (ECE)

Clause 2.1 of the Regulation for the Dual Degree program ([available here](#)), interalia, provides that “A student may opt for migrating to the dual degree program anytime before the add/drop date of his/her 7th semester in the BTech program”. Further, Clause 2.2 of the Regulation provides that "Application process for dual degree will be as defined. Selection will be done as defined". In the past actions are initiated by inviting applications from interested students in advance so that the decision is known to the students well before the last date of ADD/DROP of 7th Semester. Considering that our Placement starts around 10th July,2018 i.e. before the last date of ADD/DROP, it is felt necessary to revise the existing Clause 2.1 and 2.2 as under:

Clause	Existing	Proposed revision
2.1	A student may opt for migrating to the dual degree program anytime before the add/drop date of his/her 7 th semester in the BTech program. Only students with CGPA of 7.0 or above at the time of applying are eligible for the program.	Application process for dual degree may be initiated in advance and completed well before the placement starts. Only students with CGPA of 7.0 or above at the time of applying are eligible for the program. A student once selected for Dual Degree may opt out from migration before the add/drop date of his/her 7 th semester in the B.Tech. program provided he/she has not availed the Placement Service. The refund of fee paid towards dual degree will be regulated as per Note 3.6 of this Regulation.
2.2	Application process for dual degree will be as defined. Selection will be done as defined.	Application for Dual Degree may be invited immediately after declaration of the result of 6 th Semester. Scrutiny, selection of students, approval by Chair PGC and declaration of result to be completed by middle of June,2018.

Senate may kindly consider and approve the above proposal.

38.25 Reviewing the criteria for selecting the nominations for BTP awards.

UGC in its 13th meeting held on 6th September,2017 reviewed the existing criteria for BTP awards and after detailed deliberations recommended that the nominations for BTP awards should include the following three categories of BTPs:

- a. All A+ Grades BTPs

- b. All A grades BTPs
- c. All Popular Votes BTPs

Senate may kindly consider and approve the above recommendations of the UGC

38.26 To consider the recommendations of the UGC for approval of Regulations for (i) Minor in Economics and (ii) Minor in Computational Biology

UGC in its 16th meeting held on 2nd May, 2018 considered the Regulations for (i) Minor in Economics and (ii) Minor in Computational Biology. After making some changes UGC recommended the revised Regulations placed at [Annexure-IV](#) and [Annexure-V](#), for approval of the Senate.

38.27 Reconstitution of Undergraduate Committee (UGC)

As per UG Regulation the Undergraduate Committee (UGC), a standing committee of Senate, shall oversee matters related to the undergraduate program. This committee shall be appointed by the Senate and shall have a term of two years.

At the 16th meeting of the UGC held on 2nd May, 2018, the UGC Chair informed the members of the current committee about the need for making changes in the existing UGC constitution. After detailed deliberations the UGC recommended the revised constitution of UGC as below:

Chair, UGC
DOAA
PGC Chair
UG - CSE Coordinator
UG- ECE Coordinator
UG- CSAM Coordinator
UG - CSD Coordinator
UG- ITSS Coordinator
Students' Representative
Students' Representative

SS will nominate 2-3 Student Representatives of different disciplines for this Academic Year

Ms. Sheetu Ahuja- Standing Special Invitee
Ms. Anshu Dureja- Secretary

Senate may kindly consider and approve the above committee.

M.TECH. RELATED MATTERS

38.28 To consider the criteria of issuing Academic Warning to MTech students

Current M.Tech regulations states that students will be placed on warning if their CGPA at the end of a semester falls below 6. However, with the change in CGPA rule, where “F” grades are not counted towards calculation of CGPA, students with having “F” grades in 2-3 courses out of 4, still don’t fall under Academic Warning clause. PGC discussed the matter and recommended that the rule for Academic Warning may be changed to “Students will be placed on Academic Warning if their SGPA/CGPA at the end of a semester falls below 6”.

38.29 Any other item with the permission of the Chair.



Minutes of the 37th Senate meeting of IIT-D held on 30th January, 2018 at 03.30PM 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. Shreekant Gupta	External Member
• Dr. Kaushik Saha	External Member
• Dr. Lipika Dey	External Member
• Prof. Samaresh Chatterji	Ex-Officio Internal Member
• Dr. Anubha Gupta	Ex-Officio Internal Member
• Prof. GPS Raghava	Ex-Officio Internal Member
• Dr. Rahul Purandare	Ex-Officio Internal Member
• Dr. Saket Anand	Ex-Officio Internal Member
• Dr. Mayank Vatsa	Ex-Officio Internal Member
• Dr. Ganaesh Bagler	Ex-Officio Internal Member
• Dr. Sujay Deb	Ex-Officio Internal Member
• Dr. Angshul Majumdar	Ex-Officio Internal Member
• Dr. Ojaswa Sharma	Ex-Officio Internal Member
• Dr. Gaurav Arora	Ex-Officio Internal Member
• Dr. Vivek Bohara	Faculty-IITD
• Dr. Sumit Darak	Faculty-IITD
• Dr. Rajiv Ratn Shah	Faculty-IITD (Spl. Invitee)
• Mr. Akashdeep Singh	(Student Representative)
• Dr. B. Chandrasekar, Registrar	Secretary
• Mr. K.P. Singh	Academic Incharge
• Ms. Sheetu Ahuja	Manager(Academic)
• Mr. Ashutosh Brahma	JM (Academic)

Dr. P. Vigneswara Ilavarasan could not be present due to his preoccupation. However, his valuable comments/suggestions received through his email dated 30th January, 2018 were noted.

THIRTY SEVENTH (37th) MEETING OF SENATE OF IIT-DELHI
(HELD ON 30th January 2018)

MINUTES OF THE MEETING

General

37.1 Opening remarks of the Chairman.

The Chairman welcomed all to the meeting. He also informed that from Academic year 2018-19 a new B.Tech. program viz. B.Tech. in Computer Science and Bio Sciences (CSBS) listed at item 37.15 is being started. Thereafter, agenda items were taken up for discussions.

37.2 Confirmation of minutes of the 36th meeting of the Senate held on 20.9.2017

Since there were no comments, the minutes of the 36th meeting of the Senate held on 20.9.2017 were confirmed along with the revised list of students graduated in May 2017 and August 2017 placed at [Appendix I](#).

37.3 To consider End of Semester Summary Report (Monsoon 2017)

Chairman briefly apprised the members of the summary of various activities undertaken in the previous semester (Monsoon 2017). He also informed that several steps are already being taken with the help of Student Senate to help the weak students to improve their performance. It was suggested to find out data on percentage of weak students over the years. Although the student mentorship program is working well, it was suggested that its scope should be broadened to become a counseling cell for all types of counseling. Departments were requested to conduct academic counseling for weak students with the help of Mentors and Academic Staff. Student Senate mentioned that mainly good students are the ones who are approaching mentors, it was therefore suggested for sharing the list of weak students with the Mentors to help them counsel the students accordingly.

The Senate also suggested departments to evolve methods encouraging good students to help them achieve more.

37.4 Approval from NBA for Accreditation of PG program

The Chairman Senate informed the members that NBA vide letter dated 18.01.2018 has accredited our M.Tech(CSE) program for the Academic Years 2017-18 to years 2021-22. This accreditation enables us to apply for AICTE for approval of additional course/increase in intake. The Senate noted the same with satisfaction.

37.5 To report the list of students who completed graduation requirements on 21st December 2017.

The Senate approved the list of students who completed Graduation requirement on 21stDecember 2017, placed at [Appendix-II](#).

37.6 To ratify the approval given by Chairman Senate for award of Medals for best M.Tech. Thesis 2017

The Senate ratified the decision taken by the Chairman Senate for award of following Medals for best M.Tech. Thesis 2017:

Best M.Tech. Thesis Award for the best M Tech. thesis in CSE awarded to:

Sangeeth.K.

MT14055

Title - REVERT: Runtime Verification for Real-Time Systems

Best M.Tech. Thesis Award for the best M Tech. thesis in ECE awarded to:

Sasha Garg

MT15109

Title - Candidate Waveforms for Wireless Communications:
Analysis via Hardware Software Co-Design on ZynqSoC

Best M.Tech. Thesis Award for the best M Tech. thesis in CB awarded to:

Prateek Singh

MT15124

Title - FragSTR: Open-source STR marker analysis

37.7 To ratify the decision taken by Chairman Senate for nomenclature of the Medal to be awarded to M.Tech. student for securing the highest CGPA in the graduating batch across all disciplines.

The Senate ratified the decision taken by the Chairman Senate for approving the nomenclature **“Gold Medal for Excellent Academic Performance”** for the Medal to be

awarded to M.Tech. Student for securing the highest CGPA in the graduating batch across all disciplines.

38.30 37.8 To report the release of specific Regulations for various UG/PG regulations (July 2017 release)

The Senate noted the release of following specific UG/PG regulations on the website (January 2017 release):

1. Regulations for the BTech (CSE) Program
2. Regulations for BTech in Electronics and Communications Engineering (ECE)
- 3.Regulations for B.Tech. (CSAM) Program
- 4.Regulations for B.Tech. (CSD) Program
- 5.Regulations for B.Tech(ITSS) Program
- 6.Regulations for MTech (Computer Science and Engineering (CSE))
- 7.Regulations for M.Tech. in Electronics and Communications Engineering (ECE)
- 8.Regulations for MTech in Computational Biology (CB)

37.9 To report the new courses approved during Academic year 2017-18.

38.31 The Senate noted the new courses approved during Academic year 2017-18

37.10 To consider a proposal for having special provision for 1st semester courses for BTech and MTech programs

AND

To review the action taken to support students who are struggling – and their outcomes

Both items 37.10 and 37.17 were discussed together. Chairman informed that based on the analysis of the performance of UG students some action has been taken to support the concerned students who are struggling in the first semester. To provide more support to such students it is felt necessary to have special provision for 1st semester courses for B.Tech. and M.Tech. programs, such as, the instructors may give work during the winter break and give the final grade in first week of the Winter semester (within a limit). It was noted that after Monsoon 2017 Semester, winter module was run for Introduction to Programming, for first year B.Tech students and Introduction to Graduate Algorithms, bucket course for M.Tech students. In IP 11 students were recommended for grade improvement. In Graduate Algorithms students were initially given “I” grade and later were given proper grade based on their overall performance.

After detailed deliberations it was decided that winter modules should be regularly offered for the students weak in IP and Com Courses.

For MTech, the Senate requested the Departments to identify which first semester courses should be treated specially, by providing special attention, e.g. by assignments etc in winter term, or other suitable measures, to help the students who are struggling. Such modules / help can be run with the help of PhD students and TAs.

During the course of discussions one of the external members, Dr. Kaushik Saha also expressed the need to promote participation of IIITD students in Hackathons. Participation in such events will give benefits to the students as well as bring the institute in focus. It was therefore suggested to streamline the process of application for these Hackathons and further suggested, to ask Byld and Foobar to come up with a calendar for Hackathons, which can be shared with all the students.

37.11 To consider a proposal to run Certificate Program for Industry in some themes along with Business Partner

Chairman Senate apprised the members of the proposal for exploring arrangements with a vendor to start some certificate programs through online delivery, under the umbrella of our Industry Outreach Initiatives – focusing on Machine Learning, Data Mining, Data Analytics, etc. The partner company will do all the marketing, logistics, provide TA support, etc. while the faculty from IIIT-D will be mostly for the lectures, preparing assessments, etc. as per concept notes placed at [Appendix-III](#) and [Appendix-IV](#). This will use consultancy time of the faculty. After detailed deliberations the Senate agreed to the proposal in principle to run the proposed program as per consultancy norms of the institute and suggested to request them for running not more than 2 courses.

37.12 To consider a proposal to mention the completed /expected degree date (21st May/ August/ December) in the remarks column along with the word ‘Winter/Summer/ Monsoon Semester in the Transcript and provisional certificate.

Chairman, Senate apprised the members of the background of the proposal. After detailed deliberation the Senate agreed to the proposal in order to have more clarity on completion of graduation requirement.

37.13 To ratify the decision taken by Chairman Senate for allowing (1) Mr. Aman Verma, 2011015 and (2) Ms. Shivangi B.Tech. students to register for an extra semester (14th semester) beyond 6 years to complete the degree requirements.

The Senate ratified the decision taken by Chairman Senate. The Senate desired that these students may be asked to meet the Director to understand the reasons of their poor performance.

Arising out of discussions the Academic Section was asked to start to find out the credit status of UG students, at least three semester before their expected graduations, so that they do not fall under this category and go beyond 6 years. After completion of 5th

Semester a table should be devised to show the total credits completed upto 5th semester and the plan for remaining credits to be completed during 6th, 7th and 8th semesters.

37.14 To report Branch transfer of B.Tech. students of 2017 batch

The Senate noted the branch transfer of the following B.Tech.students of 2017 batch:

SNo.	Roll No.	Name	Current Programme	New Branch Allotted
1	2017132	Angel Walia	BTech (ECE)	BTech (CSD)
2	2017135	Anushika Gupta	BTech (ECE)	BTech (CSAM)
3	2017146	Dhruv Kundu	BTech (ECE)	BTech (CSAM)
4	2017147	Divyam Anshumaan	BTech (ECE)	BTech (CSAM)
5	2017166	Mihir Goyal	BTech (ECE)	BTech (CSE)
6	2017176	Preyansh Rastogi	BTech (ECE)	BTech (CSAM)
7	2017178	Raghav Gupta	BTech (ECE)	BTech (CSE)
8	2017193	Shubham Thakral	BTech (ECE)	BTech (CSE)
9	2017218	Anand	BTech (CSAM)	BTech (CSD)
10	2017221	Arsh Verma	BTech (CSAM)	BTech (CSE)
11	2017228	Dashmesh Singh	BTech (CSAM)	BTech (CSD)
12	2017232	Gandharv Mohan	BTech (CSAM)	BTech (CSE)
13	2017268	Tanmay Bansal	BTech (CSAM)	BTech (CSE)
14	2017276	Abhishek Rajgaria	BTech(CSD)	BTech (CSAM)
15	2017288	Gaurav Aggarwal	BTech(CSD)	BTech (CSE)
16	2017290	Harsimar Singh	BTech(CSD)	BTech (CSE)
17	2017311	Rudraroop Ray	BTech(CSD)	BTech (CSAM)
18	2017332	Anmol Singhal	BTech (ITSS)	BTech (CSE)
19	2017336	Daksh Shah	BTech (ITSS)	BTech (CSE)
20	2017358	Priyanshi Jain	BTech (ITSS)	BTech (CSAM)
21	2017359	Rachit Jain	BTech (ITSS)	BTech (CSE)
22	2017367	Tejas Oberoi	BTech (ITSS)	BTech (CSE)

The Senate also approved the below tie breaking rules followed for the students with same CGPA

Tie Breaking Rule I - For transfer to CSE branch higher grade in the order of IP,SM, Math I, DC, Com, For transfer to CSD/CSAM branch higher grade in the order of IP,Math I, SM, DC , Com

Tie Breaking Rule II -Higher JEE Rank

Summary of Transfer

Branch	Moved to other	Added to this	Net
--------	----------------	---------------	-----

	branch	branch	
CSE		12	12
CSAM	5	7	2
CSD	4	3	-1
ECE	8		-8
ITSS	5		-5

37.15 To consider a proposal for starting a new BTech program in CS and Bio Sciences

Chairman Senate introduced the proposal for starting a new BTech program in CS and Bio Sciences. He informed that the BoG, in principle, has already agreed to have B.Tech in CS+x discipline. Thereafter, Prof. GPS Raghava presented the salient features of the new B.Tech. program in CS and Bio Sciences (CSBS). Admission to this program will be similar to other students i.e based on JEE. He also answered the queries made by the members. After detailed deliberations the Senate agreed to the proposal, in principle, and desired to work out the detailed admission criteria for this new program. To consider the possibility of giving bonus marks to students who did Biology in Class XII, the Director (Chairman Senate) was requested to contact the CBSE to find out as to how many students take Biology and Mathematics subjects in class 12th.

37.16 To review the performance of B.Tech. students after 1st semester in different categories; plus review of general performance data to see how many students are struggling in different courses.

Chairman Senate apprised the members of the performance of first year B.Tech. students in different categories based on the analysis presented on the table. The Senate noted the position.

Arising out of discussion it was decided to give bonus marks to the extent of 6 marks to boys and 6 marks to girls for securing 99 percentile in class 12th provided the CBSE gives data to verify the claim of the applicants.

37.18 To discuss the proposal for allowing B.Tech students to do upto 2 extra credits of SG and CW each

Consideration of this item was deferred.

37.19 To discuss the proposal to convert grades for some courses to “S” in the First Year.

Consideration of this item was deferred.

37.20 To discuss the proposal to rename B.Tech IT and SS to B.Tech CS and SS

Chairman Senate informed that B.Tech IT & SS program was started in 2017-18. He informed that the BoG, in principle, has agreed to have B.Tech in CS+x discipline. Accordingly in line with other B.Tech programs i.e B.Tech, CSE, CSAM, CSD it is proposed to rename B.Tech IT&SS to B.Tech CS & SS. After detailed deliberations the Senate approved the proposal and requested the Chairman Senate to discuss and take formal acceptance of current students.

37.21 To consider recommendation of the UGC to approve the revised SG/CW guidelines

Chairman Senate apprised the members of the revised SG/CW guidelines recommended by the UGC. After detailed deliberations the Senate approved the revised SG/CW guidelines placed at [Appendix V](#). The revised guidelines shall be applicable from Academic year 2017-18. The students of this batch will be required to register the SG/CW on ERP and the degree requirement for them will be 156 including 4 SG/CW.

37.22 To consider a proposal for starting a new MTech program in CSE with specialization in Artificial Intelligence (AI)

Chairman Senate introduced the proposal for starting a new MTech program in CSE with specialization in Artificial Intelligence (AI). Thereafter, Dr. Mayank Vatsa presented the salient features of the proposal for the new MTech program. He also apprised the members of the discussions held and views received from the various stake holders. During the course of discussions he replied to the queries made by the members. After detailed deliberations the Senate approved the proposal with the following observations:

- i) Entry qualification for this specialization will be the same as for M.Tech.CSE.
- ii) A student not fulfilling the specialization requirement can be considered for M.Tech. CSE(GEN) degree provided he fulfils other requirements. For such students courses done as core courses for M.Tech CSE(AI) can be counted as bucket courses for M.Tech CSE(Gen)
- iii) As is the current guideline, student opting for without thesis option can also be permitted to do Capstone project of 4 credits with 11 courses (44 credits)
- iv) As per existing guidelines, a student under this specialization should also be allowed to earn at most 4/8 credits from 300/400 level courses.
- v) It should be mentioned in the regulation that in electives, at most 4 credits of "Independent Study" and 4 credits of "Minor Project" can be taken.
- vi) The proposed regulation for this new program may be finalized accordingly.

37.23 Starting of MTech thesis sponsorship by industry and (ii) encouraging industry employees in our courses as casual students.

Chairman Senate apprised the members of the background of the proposal to enhance engagement with industry to explore "MTech Thesis Sponsorship" program by industry as well as encouraging industry employees in courses as casual students as per concept notes

placed at [Appendix-VI](#) and [Appendix-VII](#). After detailed deliberations the Senate agreed to the proposal.

37.24 To review the performance of M.Tech. students after 1st semester

Consideration of this item was deferred.

37.25 To consider a proposal to enhance the Fee for M.Tech Programs

Chairman Senate informed the members that M.Tech students are being charged fee of Rs 2.5L for the whole program since beginning, while BTech fee has been doubled. Stipend for MTechs has also almost doubled. It is, therefore, felt that there is a need to increase the fee from coming Academic Year. He also apprised the members of the fee being charged at IIT Hyderabad, BITS and IITs. After detailed deliberations the Senate recommended that the tuition fee for M.Tech. program may be enhanced at the same level as at institutions like IIT-H, IIT-B, etc. It should also be ascertained from IITH whether students are doing TAsip and get scholarship. The recommendation along with above details may be forwarded to BoG for further discussions.

37.26 To report the status of new / Rolling Ph.D. Admissions for the Academic year 2017-18

The Senate noted the position.

37.27 To consider details and summary of PhD students mid review and yearly held in January 2018

The Senate noted the position.

37.28 To ratify the decision taken by Chairman Senate for award of PhD Degrees.

The Senate ratified the approval given by Chairman Senate for the award of PhD Degree to the following students:

S.No	Roll No	Name	Discipline	Advisor Name	Defense Date	Thesis Title	Degree Date
1	PhD1009	Siddhartha Asthana	CSE	Dr Pushpendra Singh	21.12.2017	Building efficient mobile systems and applications for supporting information exchange in resource limited settings	21st Dec 2017
2	PhD1005	Tejas Indulal Dhamecha	CSE	Dr Mayank Vatsa & Dr Richa Singh	21.12.2017	Pushing Boundaries of Face Recognition: Adversary, Heterogeneity, and Scale	21st Dec 2017

3	MT10014	Prateek Dewan	CSE	Dr Ponnuragam Kumaraguru	21.12.2017	Techniques for Automating Quality Assessment of Context-specific Content on Social Media Services	21st Dec 2017
4	PhD1209	Sweta Mishra	CSE	Dr Donghoon Chang, Dr Somitra Sanadhya	08.01.2018	Design and Analysis of Password-based Authentication Systems	21st May 2018
5	PhD1325	Naveen Gupta	ECE	Dr Vivek Bohara	10.01.2018	Cognitive Subcarrier Sharing Schemes for Cooperative D2D Communication Frameworks	21st May 2018

37.29 To report PhD students who have withdrawn from the program from September 2017 to December 2017

The Senate noted the position.

37.30 To consider a proposal for a Dual/Joint Doctoral Degree Program between IIIT Delhi and University at Buffalo (UB),USA

Chairman Senate apprised the members of the background of the proposal for Dual/Joint Doctoral Degree Program between IIIT Delhi and University at Buffalo (UB),USA as per MoU placed at [Appendix-VIII](#). After detailed deliberations the Senate agreed to the proposal.

37.31 To approve the format of Joint Ph.D. degree between IIIT Delhi and QUT

Chairman Senate apprised the members of the format of joint Ph.D. degree suggested by QUT and the sample degree formats received from IIT Kanpur and IIT Bombay. After detailed discussion the format of IIT Bombay was unanimously agreed with the stipulation that Convocation Committee will look into the details and finalise.

37.32 To consider special requirements for PhD in Social Sciences

Chairman Senate apprised the members of the background of the proposal and the earlier decision of the Senate taken at its 36th Meeting held on 20 September 2017. Thereafter, Dr. Gaurav Arora presented the special requirements for Ph.D. in Social Sciences as per details given in [Appendix-IX](#). He also answered the queries made by the members. Dr. Shreekanta Gupta, external member of the Senate also made some valuable suggestions about the courses to be done at other institutes/University. After detailed deliberations the Senate agreed to the proposed requirements in principle. The Department of SSH was requested to send the proposed requirements to some people in other IITs to get their views to finalize them.

37.33 To consider recommendation of the PGC for inclusion of Thesis Title in M.Tech. and Ph.D. transcripts.

Chairman Senate apprised the members of the recommendation made by the PGC at its 27th meeting held on 24th January, 2018 for inclusion of Thesis Title in M.Tech. and Ph.D. transcripts. The Senate noted the same for implementation at the institute.

37.34 To ratify the decision taken by Chairman Senate for giving Certificate of appreciation to alums for the year 2017.

This item was not discussed as there was insufficient information about the process followed.

37.35 To consider the recommendation for considering credit transfer from IIITD Hyderabad in respect of Anant Mittal, Roll No.2014015, a student of B.Tech. 2014 batch.

Chairman Senate apprised the members of the recommendation of the committee consisting of DOAA, Chair UGC and B.Tech. (CSE) program coordinator for credit transfer in respect of Anant Mittal, Roll No.2014015, a student of B.Tech. 2014 batch. After detailed deliberations the Senate approved the recommendation for credit transfer, for the below courses completed by him in Monsoon 2017 at IIITD Hyderabad:

1. Introduction to Cognitive Science – 4 Cr – May be counted towards CSE course requirements
2. Research Methodology – 2 Cr- To be counted as open elective
3. Statistical Methods in AI- 4 Cr- To be counted towards CSE course requirements

Also, the student will not be allowed to register for the following courses at IIITD:

1. Machine Learning
2. Statistical Machine Learning

37.36 To consider the continuation of admission to B.Tech. CSD program through UCEED.

Chairman Senate informed that admission to B.Tech.(CSD) started in 2017 was done through JAC and UCEED. For 2018 IIT Bombay is not admitting the students for IIITD. They have decided to share the complete UCEED merit list, further to which admission process for CSD need to be run by us. He also apprised the members that the first semester performance of UCEED students is just average and of the views of Ms Indirani that their performance is nothing special. After detailed deliberations the Senate decided to admit students to B.Tech.(CSD) program only through JAC mode and discontinue admission through UCEED – the details of implementing this was left to Chairman, Senate to decide (in consultation with the admission committee.)

37.37 To consider the recommendation of PGC for revision of M.Tech(CB) regulation.

Chairman Senate apprised the members of the recommendations made by the PGC at its 27th meeting held on 24th January,2017 for revision of regulation for M.Tech.(CB) program. After detailed deliberation the Senate authorized the Chairman Senate to look into the revised regulation and approve on behalf of the Senate.

The meeting ended with a vote of thanks to the chair.

List of B.Tech. (CSE) Students Graduating on 21st May 2017

Sl. No.	Roll No	Full Name	B.Tech. Specialization	Graduation Date	Minor in Economics	Honors
1	2013001	Aarushi	CSE	21st May 2017		
2	2013004	Abhishek Jain	CSE	21st May 2017		
3	2013007	Ajitanshu Singh	CSE	21st May 2017		
4	2013009	Aman Agarwal	CSE	21st May 2017		With Honors
5	2013010	Aman Khan	CSE	21st May 2017		
6	2013012	Amya Rai	CSE	21st May 2017		
7	2013016	Anjali Ujjainia	CSE	21st May 2017		
8	2013017	Ankit Verma	CSE	21st May 2017	With Eco Minor	
9	2013026	Atulya Jain	CSE	21st May 2017		
10	2013027	Ayush Shah	CSE	21st May 2017		With Honors
11	2013032	Deepanshu Arora	CSE	21st May 2017		
12	2013035	Gaurav Bansal	CSE	21st May 2017		
13	2013040	Himani	CSE	21st May 2017		
14	2013043	Jalaj Pandey	CSE	21st May 2017		
15	2013044	Juhi Bhatnagar	CSE	21st May 2017		With Honors
16	2013045	K Mahitha	CSE	21st May 2017		
17	2013046	Kapil Khatri	CSE	21st May 2017		
18	2013051	Kartik Maji	CSE	21st May 2017		
19	2013055	Mallika Alok Agarwal	CSE	21st May 2017		With Honors
20	2013059	Mayank Vachher	CSE	21st May 2017		
21	2013060	Mohammad Hammad Akhtar	CSE	21st May 2017		
22	2013061	Mohammed Nawazish	CSE	21st May 2017		
23	2013068	Nikita Gupta	CSE	21st May 2017		With Honors
24	2013073	Prikankshit Mor	CSE	21st May 2017		
25	2013076	Pushkin Soni	CSE	21st May 2017		
26	2013079	Ritwik Kaul	CSE	21st May 2017		
27	2013084	Saloni Gupta	CSE	21st May 2017	With Eco Minor	With Honors
28	2013086	Sameer Kumar	CSE	21st May 2017		
29	2013089	Saransh Gupta	CSE	21st May 2017	With Eco Minor	
30	2013092	Saurabh De	CSE	21st May 2017	With Eco Minor	
31	2013094	Shitij Singhal	CSE	21st May 2017		

32	2013096	Shrabanti Halder	CSE	21st May 2017		
33	2013097	Shrey Chopra	CSE	21st May 2017		
34	2013098	Shubham Aggarwal	CSE	21st May 2017		
35	2013100	Shubham Sharma	CSE	21st May 2017		
36	2013101	Shuchita Gupta	CSE	21st May 2017		With Honors
37	2013103	Sidhant Tickoo	CSE	21st May 2017		
38	2013104	Simran Saxena	CSE	21st May 2017	With Eco Minor	With Honors
39	2013105	Sonali Raichandel	CSE	21st May 2017		
40	2013106	Soumya Sharma	CSE	21st May 2017		
41	2013108	Srishti Sengupta	CSE	21st May 2017		
42	2013111	Sumit Keswani	CSE	21st May 2017		
43	2013121	Yashovardhan Sharma	CSE	21st May 2017		With Honors
44	2013122	Aditi Mithal	CSE	21st May 2017		With Honors
45	2013124	Akshit Jain	CSE	21st May 2017		
46	2013125	Amod Kant Agrawal	CSE	21st May 2017		
47	2013141	Naman Gupta	CSE	21st May 2017		
48	2013142	Neeraj Vaishnao	CSE	21st May 2017		
49	2013155	Saloni Kogta	CSE	21st May 2017		
50	2013161	Siddharth Jain	CSE	21st May 2017	With Eco Minor	
51	2013164	Srinidhi Hegde	CSE	21st May 2017		

List of B.Tech. (CSE) Students Graduating on 21st August 2017

Sl. No.	Roll No	Full Name	B.Tech. Specialization	Graduation Date	Minor in Economics	Honors
1	2013005	Abhishek Mittal	CSE	21st August 2017	With Eco Minor	With Honors
2	2013014	Aneesh Dogra	CSE	21st August 2017		
3	2013019	Ankur Singh	CSE	21st August 2017		
4	2013021	Anmol Singh	CSE	21st August 2017		
5	2013022	Arjun Verma	CSE	21st August 2017		
6	2013023	Arushi Jain	CSE	21st August 2017		
7	2013025	Atul Jain	CSE	21st August 2017		
8	2013029	Bhavna Nagpal	CSE	21st August 2017		
9	2013030	Chanchal Prajapati	CSE	21st August 2017		
10	2013031	Chetan Sharma	CSE	21st August 2017		
11	2013033	Divya Mehra	CSE	21st August 2017		
12	2013038	Gurshabad Singh Grover	CSE	21st August 2017		
13	2013039	Herrman Swami	CSE	21st August 2017		
14	2013042	Ishita Khurana	CSE	21st August 2017		
15	2013047	Karan Barsiwal	CSE	21st August 2017		

16	2013056	Manan Wason	CSE	21st August 2017		
17	2013057	Manav Batra	CSE	21st August 2017		
18	2013062	Mohini Verma	CSE	21st August 2017		
19	2013063	Mohit Wadhwa	CSE	21st August 2017		
20	2013064	Naman Gupta	CSE	21st August 2017		
21	2013065	Namrata Deka	CSE	21st August 2017		With Honors
22	2013067	Nikhil Singhal	CSE	21st August 2017		With Honors
23	2013071	Ojaswi Gupta	CSE	21st August 2017		
24	2013074	Priyanshu Singh	CSE	21st August 2017		
25	2013075	Protichi Basak	CSE	21st August 2017		With Honors
26	2013080	Rohit Singh	CSE	21st August 2017		
27	2013081	Rupam Patir	CSE	21st August 2017		
28	2013088	Sanchit Gupta	CSE	21st August 2017		With Honors
29	2013095	Shivam Thukral	CSE	21st August 2017		
30	2013102	Shweta Rani	CSE	21st August 2017		
31	2013109	Stuti Goel	CSE	21st August 2017		
32	2013112	Tarun Malhotra	CSE	21st August 2017	With Eco Minor	With Honors
33	2013119	Vishal Midha	CSE	21st August 2017		
34	2013120	Vishal. M	CSE	21st August 2017		

List of B.Tech. (ECE) Students Graduating on 21st May 2017

Sl. No.	Roll No	Full Name	B.Tech. Specialization	Graduation Date	Minor in Economics	Honors
1	2013128	Apurba Mondal	ECE	21st May 2017		
2	2013129	Astha Gupta	ECE	21st May 2017		
3	2013130	Avikal Kohli	ECE	21st May 2017		
4	2013132	Diljyot Singh Jaura	ECE	21st May 2017		
5	2013135	Karan Rajput	ECE	21st May 2017		
6	2013146	Parth Shrivastava	ECE	21st May 2017		
7	2013148	Piyush Thakran	ECE	21st May 2017		
8	2013150	Puneet Jain	ECE	21st May 2017		With Honors
9	2013154	Saket Kumar Verma	ECE	21st May 2017		
10	2013158	Shivam Jainar	ECE	21st May 2017		
11	2013162	Simranjeet Singh	ECE	21st May 2017		
12	2013165	Tanay Kabra	ECE	21st May 2017		
13	2013166	Taruvar Aggarwal	ECE	21st May 2017		With Honors
14	2013169	Varun Kumar	ECE	21st May 2017		

List of B.Tech. (ECE) Students Graduating on 21st August 2017

Sl. No.	Roll No	Full Name	B.Tech. Specialization	Graduation Date	Minor in Economics	Honors
1	2013126	Aneesh Kumar	ECE	21st August 2017		
2	2013134	Grishma Sinha	ECE	21st August 2017		
3	2013144	Nischay Malhan	ECE	21st August 2017		
4	2013147	Pavani Tripathi	ECE	21st August 2017		
5	2013151	Robin Singh Ratre	ECE	21st August 2017		
6	2013152	Sabbella Sai Hemanth Reddy	ECE	21st August 2017		
7	2013156	Sanket Jain	ECE	21st August 2017		
8	2013157	Sheel Priya Gautam	ECE	21st August 2017		
9	2013159	Shubham Sinha	ECE	21st August 2017		
10	2013160	Siddhant Sharma	ECE	21st August 2017		
11	2013163	Srajan Bhatnagar	ECE	21st August 2017		
12	2012145	Mimansa Som	ECE	21st August 2017		

List of M.Tech. (CSE) Students Graduating on 21st May 2017

S.No.	Name	Roll No.	M.Tech Program	Graduating with which specialization	Completing with Thesis / SP	Graduation Date
1	Ankita Mehta	MT15005	CSE	Data Engineering	Thesis	21st May 2017
2	Anurag Goel	MT15006	CSE	CSE-General (no specialization)	SP - 8 Credits	21st May 2017
3	Arushi Baboota	MT15008	CSE	CSE-General (no specialization)	SP - 8 Credits	21st May 2017
4	Ashika Gupta	MT15009	CSE	Information Security	SP - 8 Credits	21st May 2017
5	Deepak Kumar Sood	MT15013	CSE	CSE-General (no specialization)	SP - 8 Credits	21st May 2017
6	Harbeer Singh	MT15017	CSE	CSE-General (no specialization)	SP - 4 Credits	21st May 2017
7	Kapish Malik	MT15026	CSE	CSE-General (no specialization)	SP - 8 Credits	21st May 2017
8	Karishma Tirthani	MT15027	CSE	Data Engineering	SP - 8 Credits	21st May 2017
9	Lalit Dudheria	MT15028	CSE	CSE-General (no specialization)	SP - 8 Credits	21st May 2017
10	Maurya Kavita Dinesh Damyanti	MT15032	CSE	Data Engineering	SP - 8 Credits	21st May 2017
11	Meetika Anand	MT15033	CSE	Data Engineering	SP - 4 Credits	21st May 2017
12	Nancy Agrawal	MT15037	CSE	Mobile Computing	SP - 8 Credits	21st May 2017
13	Naveen Kumar Patidar	MT15038	CSE	CSE-General (no specialization)	SP - 8 Credits	21st May 2017
14	Neeti Arora	MT15039	CSE	CSE-General (no specialization)	SP - 8 Credits	21st May 2017
15	Nitish Kumar	MT15041	CSE	Data Engineering	SP - 8 Credits	21st May 2017

16	Priyavanshi Pathania	MT15048	CSE	Data Engineering	SP - 8 Credits	21st May 2017
17	Ramandeep Singh Trehan	MT15052	CSE	CSE-General (no specialization)	SP - 8 Credits	21st May 2017
18	Samarth Sikand	MT15058	CSE	Data Engineering	SP - 8 Credits	21st May 2017
19	Ajit Pratap Singh	MT14033	CSE	Information Security	SP - 8 Credits	21st May 2017
20	Anindya Srivastava	MT14035	CSE	Information Security	SP - 8 Credits	21st May 2017

List of M.Tech. (CSE) Students Graduating on 21st August 2017

S.No.	Name	Roll No.	M.Tech Program	Graduating with which specialization	Completing with Thesis / SP	Graduation Date
1	Avni Malhan	MT15012	CSE	Data Engineering	Thesis	21st Aug 2017
2	Garima Chhikara	MT15014	CSE	CSE-General (no specialization)	SP - 8 Credits	21st Aug 2017
3	Gunjan Sharma	MT15015	CSE	CSE-General (no specialization)	SP - 8 Credits	21st Aug 2017
4	Guntakindapalli venkatesulu	MT15016	CSE	CSE-General (no specialization)	Thesis	21st Aug 2017
5	Himani Pande	MT15018	CSE	Mobile Computing	SP - 8 Credits	21st Aug 2017
6	Jyoti Shukla	MT15022	CSE	CSE-General (no specialization)	SP - 8 Credits	21st Aug 2017
7	Kanchanjot Kaur Phokela	MT15023	CSE	Mobile Computing	Thesis	21st Aug 2017
8	Kanupriya Batra	MT15025	CSE	CSE-General (no specialization)	SP - 8 Credits	21st Aug 2017
9	Loveleen Girdhar	MT15029	CSE	CSE-General (no specialization)	SP - 8 Credits	21st Aug 2017
10	madhur rawat	MT15030	CSE	Information Security	Thesis	21st Aug 2017
11	Manisha Sharma	MT15031	CSE	CSE-General (no specialization)	SP - 8 Credits	21st Aug 2017
12	Mohammed Kashif	MT15035	CSE	Data Engineering	Thesis	21st Aug 2017
13	Mohit Mishra	MT15036	CSE	CSE-General (no specialization)	SP - 4 Credits	21st Aug 2017
14	Neha Rani	MT15040	CSE	CSE-General (no specialization)	SP - 8 Credits	21st Aug 2017
15	Pardeep Kaur	MT15043	CSE	CSE-General (no specialization)	SP - 4 Credits	21st Aug 2017
16	Purna Agarwal	MT15045	CSE	Data Engineering	Thesis	21st Aug 2017
17	Priyanka Gupta	MT15047	CSE	Data Engineering	Thesis	21st Aug 2017
18	Rajat Bahuguna	MT15049	CSE	CSE-General (no specialization)	SP - 8 Credits	21st Aug 2017
19	Rajdeep Mukherjee	MT15051	CSE	Information Security	Thesis	21st Aug 2017
20	Richa Gupta	MT15053	CSE	CSE-General (no specialization)	SP - 8 Credits	21st Aug 2017

21	Richa Verma	MT15054	CSE	Data Engineering	Thesis	21st Aug 2017
22	Sagar Khatri	MT15055	CSE	Data Engineering	Thesis	21st Aug 2017
23	Srishti Chandok	MT15061	CSE	Information Security	Thesis	21st Aug 2017
24	Sumit	MT15062	CSE	CSE-General (no specialization)	SP - 8 Credits	21st Aug 2017
25	Vijayita Gumber	MT15063	CSE	CSE-General (no specialization)	SP - 8 Credits	21st Aug 2017
26	Abhishek Mitra	MT14047	CSE	CSE-General (no specialization)	Thesis	21st Aug 2017

List of M.Tech. (ECE) Students Graduating on 21st May 2017

S.No.	Name	Roll No.	M.Tech Program	Graduating with which specialization	Completing with Thesis / SP	Graduation Date
1	Andrew Gigie	MT15086	ECE	VLSI & Embedded Systems	SP - 8 Credits	21st May 2017
2	Divya Jain	MT15094	ECE	VLSI & Embedded Systems	SP - 8 Credits	21st May 2017
3	Jivani Paritosh Ashwinkumar	MT15103	ECE	VLSI & Embedded Systems	SP - 8 Credits	21st May 2017
4	Pooja Choudhary	MT15104	ECE	VLSI & Embedded Systems	SP - 8 Credits	21st May 2017
5	Rajendra Prasad Nayak	MT15106	ECE	VLSI & Embedded Systems	SP - 8 Credits	21st May 2017
6	Sheenam Bansal	MT15110	ECE	Communication & Signal Processing	SP - 8 Credits	21st May 2017
7	Vivek Tyagi	MT15118	ECE	VLSI & Embedded Systems	Thesis	21st May 2017
8	Yatharth	MT15119	ECE	VLSI & Embedded Systems	SP - 8 Credits	21st May 2017
9	Naushad Ansari	PhD1322	ECE	Communication & Signal Processing	Thesis	21st May 2017

List of M.Tech. (ECE) Students Graduating on 21st August 2017

S.No.	Name	Roll No.	M.Tech Program	Graduating with which specialization	Completing with Thesis / SP	Graduation Date
1	Aartika sethi	MT15082	ECE	ECE-General (No specialization)	SP - 8 Credits	21st Aug 2017
2	Ankita Agarwal	MT15088	ECE	Communication & Signal Processing	Thesis	21st Aug 2017
3	Ankush Singh	MT15089	ECE	VLSI & Embedded Systems	Thesis	21st Aug 2017
4	Chayan Pathak	MT15091	ECE	VLSI & Embedded Systems	SP - 8 Credits	21st Aug 2017
5	Deeksha Nautiyal	MT15092	ECE	Communication & Signal Processing	SP - 8 Credits	21st Aug 2017

6	Himani Jawa	MT15098	ECE	ECE-General (No specialization)	SP - 8 Credits	21st Aug 2017
7	Himani Joshi	MT15099	ECE	ECE-General (No specialization)	SP - 8 Credits	21st Aug 2017
8	Kunwar Tarun	MT15100	ECE	VLSI & Embedded Systems	Thesis	21st Aug 2017
9	Oza Poojankumar Bharatbhai	MT15105	ECE	Communication & Signal Processing	SP - 8 Credits	21st Aug 2017
10	Rimjhim Khandelwal	MT15107	ECE	VLSI & Embedded Systems	Thesis	21st Aug 2017
11	Sakshi Garg	MT15108	ECE	VLSI & Embedded Systems	Thesis	21st Aug 2017
12	Sasha Garg	MT15109	ECE	Communication & Signal Processing	Thesis	21st Aug 2017
13	Shivam Kalla	MT15112	ECE	VLSI & Embedded Systems	Thesis	21st Aug 2017
14	Shrestha Bansal	MT15113	ECE	VLSI & Embedded Systems	Thesis	21st Aug 2017
15	Surbhi Maheshwari	MT15114	ECE	Communication & Signal Processing	Thesis	21st Aug 2017
16	Vipra Shukla	MT15116	ECE	ECE-General (No specialization)	Thesis	21st Aug 2017
17	Rahul Gupta	MT14095	ECE	VLSI & Embedded Systems	Thesis	21st Aug 2017

List of M.Tech. (CB) Students Graduating on 21st May 2017

S.No.	Name	Roll No.	M.Tech Program	Graduating with which specialization	Completing with Thesis / SP	Graduation Date
1	Dicksha Chohan	MT15127	CB	CB	Thesis	21st May 2017

List of M.Tech. (CB) Students Graduating on 21st August 2017

S.No.	Name	Roll No.	M.Tech Program	Graduating with which specialization	Completing with Thesis / SP	Graduation Date
1	Prateek Singh	MT15124	CB	CB	Thesis	21st Aug 2017
2	Mehak Sablok	MT15129	CB	CB	Thesis	21st Aug 2017
3	Richa Rashmi	MT15131	CB	CB	Thesis	21st Aug 2017

List of PhD (CSE) Students Graduating on 21st August 2017

S.No	Roll No	Name	Advisor Name	Defense Date	Degree Date
1	PhD1302	Swati Agrawal	Dr Ashish Sureka, Dr Vikram Goyal	22.06.2017	21.08.2017
2	MT10012	Niharika Sachdeva	Dr Ponnurangam Kumaraguru	27.06.2017	21.08.2017
3	PhD1102	Ayushi Rastogi	Dr Pankaj Jalote, Dr Nachiappan Nagappan	02.08.2017	21.08.2017
4	PhD1003	Anush Sankaran	Dr Mayank Vatsa, Dr Richa Singh	10.08.2017	21.08.2017
5	PhD1004	Damodaram Kamma	Dr Pankaj Jalote	18.08.2017	21.08.2017

List of PhD (ECE) Students Graduating on 21st May 2017

S.No	Roll No	Name	Advisor Name	Defense Date	Degree Date
1	PhD1326	Anupriya Gogna (ECE)	Dr Angshul Majumdar	26.04.2017	21.05.2017

List of PhD (ECE) Students Graduating on 21st August 2017

S.No	Roll No	Name	Advisor Name	Defense Date	Degree Date
1	PhD1224	Hemanta Kumar Mondal (ECE)	Dr Sujay Deb	14.08.2017	21.08.2017

[Appendix II](#)

List of B.Tech. (CSE) Students Graduated on 21st December 2017

Sl. No.	Roll No	Full Name	Specialization	Graduation Date	Minor in Economics	Honors
1	2013006	Aditya Lakra	CSE	21st December 2017		
2	2013018	Ankita Verma	CSE	21st December 2017		
3	2013024	Ashish Aapan	CSE	21st December 2017		
4	2013028	B. Jaisurya	CSE	21st December 2017		
5	2013036	Gaurav Rathee	CSE	21st December 2017		
6	2013041	Ishan Sharma	CSE	21st December 2017		
7	2013048	Karan Grover	CSE	21st December 2017		
8	2013050	Kartik Gupta	CSE	21st December 2017	With Eco Minor	
9	2013066	Nandika Chaudhary	CSE	21st December 2017		
10	2013070	Nitin Varun	CSE	21st December 2017		
11	2013082	Sahil Babbar	CSE	21st December 2017		
12	2013085	Sambhav Satija	CSE	21st December 2017		
13	2013087	Samir	CSE	21st December 2017		
14	2013090	Saransh Nahar	CSE	21st December 2017		
15	2013093	Shambhavi Singh	CSE	21st December 2017		
16	2013099	Shubham Chauhan	CSE	21st December 2017		
17	2013107	Srijan Batra	CSE	21st December 2017		
18	2013113	Tushar Gupta	CSE	21st December 2017		
19	2013117	Virender Singh	CSE	21st December 2017		
20	2013110	Subodh Yadav	CSE	21st December 2017		
21	2013083	Sahil Shekhawat	CSE	21st December 2017		

List of B.Tech. (ECE) Students Graduated on 21st December 2017

Sl. No.	Roll No	Full Name	Specialization	Graduation Date	Minor in Economics	Honors
1	2013123	Akash Jain	ECE	21st December 2017		
2	2013127	Anwesh Kumar Sahoo	ECE	21st December 2017		
3	2013136	Karishma Babbar	ECE	21st December 2017		
4	2013137	Masroor Ahmad Mattu	ECE	21st December 2017		
5	2013149	Prerna Singh	ECE	21st December 2017		
6	2013167	Utkarsh Upadhyaya	ECE	21st December 2017		

List of M.Tech. (CSE) Students Graduated on 21st December 2017

Sl. No.	Full Name	Roll No.	Graduating with which specialization	Graduation Date
1	Indira Sen	MT15021	M.Tech(CSE)-Gen	December 21, 2017
2	Prateek Jain	MT15044	M.Tech(CSE)-DE	December 21, 2017
3	Sagar Verma	MT15056	M.Tech(CSE)-Gen	December 21, 2017
4	Sharma Darshan Ashokkumar	MT15059	M.Tech(CSE)-Gen	December 21, 2017

List of M.Tech. (ECE) Students Graduated on 21st December 2017

Sl. No.	Full Name	Roll No.	Graduating with which specialization	Graduation Date
1	Aanchal Khandelwal	MT15081	M.Tech(ECE)-CSP	December 21, 2017
2	Aditay Tripathi	MT15084	M.Tech(ECE)-CSP	December 21, 2017
3	Akshaya Bhardwaj	MT15085	M.Tech(ECE)-VLSI&ES	December 21, 2017
4	Anuradha	MT15090	M.Tech(ECE)-VLSI&ES	December 21, 2017
5	Deepayan Banerjee	MT15093	M.Tech(ECE)-VLSI&ES	December 21, 2017
6	Divya Sitani	MT15095	M.Tech(ECE)-CSP	December 21, 2017
7	Pankhuri	MT15102	M.Tech(ECE)-VLSI&ES	December 21, 2017
8	Shipra Batra	MT15111	M.Tech(ECE)-VLSI&ES	December 21, 2017
9	Vikas Kumar	MT15115	M.Tech(ECE)-VLSI&ES	December 21, 2017
10	Vishav Vikash	MT15117	M.Tech(ECE)-VLSI&ES	December 21, 2017
11	Suman Pani	MT14092	M.Tech(ECE)-CSP	December 21, 2017
12	Gyan Deep	MT15097	M.Tech(ECE)-CSP	December 21, 2017

List of M.Tech. (CB) Students Graduated on 21st December 2017

Sl. No.	Full Name	Roll No.	Graduating with which specialization	Graduation Date
1	Dilraj Kaur	MT15121	M.Tech(CB)	December 21, 2017
2	Shrey Gupta	MT15125	M.Tech(CB)	December 21, 2017
3	Sphoorti Sood	MT15132	M.Tech(CB)	December 21, 2017
4	Parul Sharma	MT15123	M.Tech(CB)	December 21, 2017

Partnership Proposal – IIIT-D and UpGrad

About UpGrad

[UpGrad](#) is an online higher education company based out of Mumbai, India. We develop industry relevant programs for working professionals delivered via our proprietary online learning platform. Our vision is to build careers of tomorrow by upskilling individuals in the most engaging learning environment. We are a team of 225 people led by Ronnie Screwvala and Mayank Kumar with a committed capital of USD 16 million. For each program, we collaborate with leading universities, corporates and government bodies such as [IIIT-Bangalore](#), [MICA](#), HCL Technologies, UBER, Microsoft, Gramener, Facebook, the Government of India and more. The learning in each program happens through the online medium – either on the desktop platform or the mobile app (Android and iOS). Mentoring Sessions, Teaching Assistant Support and Customer Support help students undergo an immersive learning experience with tangible career impact. Through offline engagement events in our [UpGrad Xchange centres](#) our students build a network that helps them grow professionally. UpGrad strongly believes in the power of local context setting and examples and has created a network of corporates such as Facebook, Gramener and more to contribute local case studies to create a holistic learning experience for students.

Current Program Portfolio

UpGrad is currently offering a PG Diploma in Data Science in collaboration with IIIT-B upskilling close to 1500 learners in one year. It has also recently launched as well as a Big Data program with BITS Pilani and a digital marketing program with Cambridge University.

Potential Program Opportunities

Based on market research on the talent gaps and market demands in the Indian market, UpGrad proposes the following programs: PG Certificate in Machine Learning, PG Certificate in Big Data Analytics and PG Certificate in Deep Learning and AI. Students completing both the Machine Learning & Big Data Analytics programs will be given a PGP in Big Data Analytics & Applied Machine Learning. Similarly, students completing both Machine Learning & Deep Learning/ AI will be given a PGP in Advanced Machine Learning & AI.

Nomenclature Definition:

- Each PG Certificate is a course which will be for a duration of 12 weeks
- A course will have 5-6 modules; each week in a course will have 2-3 hours of faculty asynchronous videos; beyond the asynchronous videos there will be case studies and assignments
- A combination of 2 relevant PG Certificates will lead to a PG Program (PGP) credential

Method Of Delivery

The method of delivery and learning will primarily be online. Some offline sessions, hackathons and boot camps can be organised enhance the hands-on problem solving ability of the learners.

Learners will be expected to devote 10 hours per week in the course. Each week of online learning is divided into the following elements:

1. 2-3 hours of video lectures, lecture notes
2. 1-2 hours of assessments in form of MCQs, small assignments
3. 1 hours of live online lecture by faculty or Industry Professional (Optional)
4. 4-5 hours of assignment/project solving business problems

In addition the programs will contain one offline bootcamp or hackathon towards the end of the program where learners will be expected to solve a business problem and submit their solution in form of a product or piece of code along with appropriate presentation for evaluation.

Target Group

These programs will prove to be relevant for the following target audience:

- Existing Data Professionals: Data Engineers, Data Analysts, Junior Data Scientists, Business Analysts and other data professionals, who wish to upskill themselves in specific artificial intelligence domains by learning specific techniques and build upon the existing foundation of analytics knowledge that they already possess.
- Existing IT Professionals: Existing IT professionals who have been into software development, who wish to transition into the field of Data Science and build upon the existing technical know-how that they possess

Role and responsibilities of IIIT D and UpGrad while creating and offer the program/course

IIIT-D Responsibilities:

Designing / Structuring the Program

The University will identify faculty members who can lead content design and creation in consultation with UpGrad.

Selection Criteria:

UpGrad and University will together decide on the selection criteria for the program/courses.

Digital Content Creation

University faculty will provide raw material e.g. power point presentations, notes, assignments, assessments etc. and work with UpGrad's content and pedagogy team to create scripts which can be used for creating the learning experience.

Marketing and Student acquisition:

University will provide permission to UpGrad to use its logo and name for the purposes of marketing programs and courses.

Program Delivery

University faculty will also take live lectures and will be responsible for moderation of grades. University will also give certificates to students upon successful completion of the program and will grant them alumni status.

Across content development and delivery, faculty is expected to commit ~200 hours in Year 1 and ~100 hours from Year 2 onwards per PG certificate course

UpGrad Responsibilities:

Designing / Structuring the Program

UpGrad will use its industry network to identify program opportunities. UpGrad will identify industry experts who can further complement the content of the industry experts and will source lectures, case studies and projects from them.

Selection Criteria:

UpGrad and University will together decide on the selection criteria for the program/courses. UpGrad will administer the selection process to filter students for the program.

Digital Content Creation

UpGrad shall provide the requisite infrastructure and logistical support to record the videos using the scripts created. UpGrad team can stitch together the videos, assignments, questions and projects to form a complete learning experience.

Marketing and Student acquisition:

UpGrad will be responsible for carrying out marketing and sales activities to acquire students for the program.

Program Delivery

UpGrad will build and maintain a learning platform where all videos, assignments and projects can be hosted, and will ensure that all the lectures and projects are hosted on it. UpGrad will ensure that mentors are available for each support for any type of help that they may need, including academic and non-academic doubt resolution. UpGrad will ensure that industry experts are available for taking live lectures as and when required. On grading UpGrad will ensure the availability of required graders/experts who can grade the assignment or projects.

University faculty will also take live lectures and will be responsible for moderation of grades. University will also give certificates to students upon successful completion of the program and will grant them alumni status.

Cohort Launch Plan

UpGrad and IIT Delhi can look at launching 4 cohorts in a year with a cohort size of at least 100-150 per PG Certificate course in the first year and then growing it in the subsequent years.

Certificate Program through Online Delivery

IIIT-Delhi is exploring arrangements with a vendor to start some certificate programs through online delivery – focusing on Machine Learning, Data Mining, Data Analytics, etc. The partner company will do all the marketing, logistics, provide TA support, etc. while the faculty from IIIT-D will be mostly for the lectures, preparing assessments, etc. An MOU is being worked out for this (with issues of ownership etc all covered in it.)

The financial model is that the partner will do all the investments and IIIT-Delhi will not put any funds for it. The partner will collect the revenue, which they will share with IIIT-Delhi. (The sharing arrangement is being worked out – but IIIT-D will get about one-third of the revenue.)

While IIIT-Delhi seeks to earn revenue from this, to incentivize the faculty and their departments, it proposed to share part of the revenue with them. This note gives the sharing arrangement with the faculty member teaching the course and the department.

- A faculty member will be permitted to teach equal to a 2 credit course (i.e. half of a course) in a semester in this endeavor. This will ensure that involvement in this endeavor does not overload the faculty and our regular academics do not suffer.
- For the faculty, this effort will be treated like consultancy, and a 2-credit offering will be treated as a 20 day consultancy assignment (from IIIT-Delhi). This ensures that all together, the faculty is within limits allowed for external work (i.e. consultancy) and the effort is not coming in the way of regular academics.
- The Institute will pay the faculty member a consultancy fee for this, which will be: 15% of the proceeds the Institute earns, with a minimum sum of Rs 3 Lac (provided the revenue that IIIT-D gets is more than this. I.e. the first Rs 3 Lac will go fully to the faculty, though they will be a part of 15%.)
- 5% of the proceeds will go to the department DPA. (If a faculty member has joint appointment, this will be shared among the departments.)

38.32

Self Growth (SG) Guidelines

What is Self Growth (SG)?

Self Growth (SG) is a mandatory component of the B.Tech program at IIIT-Delhi. Its aim is to help students learn extra-curricular / specialized skills or activities. At IIIT-Delhi, students have to do a minimum 80 hours of Self Growth Work, with an option of splitting the self growth into 2 activities of 40 hours each for 1 credit each. This helps student advance or even add to their skill sets new abilities which may range from language, sports, art, music, cooking or any speacialized skill, thereby enhancing the students' abilities apart from just academics. At IIIT Delhi we believe in adding value to a student's life and enhancing the student holistically.

Credits: 2

Minimum no. of hours: 80-90

The following must be followed during SG activity:-

1. SG credits can be done in Summer Term/ Monsoon Semester/ Winter Semester.
2. For starting the work you need to submit a proposal on the SG portal in the last week of April / July / December respectively (SG portal- <http://sg.iiitd.edu.in:8087/>)
3. Once it's been approved, you need to register on ERP as per the add/drop dates mentioned in the Academic Calendar and can start taking coaching for that skill/ Activity.
4. You need to maintain daily/weekly logs and after completion of 80 hours of work, get a valid certificate with the **signature** of the person concerned (Coach / trainer/ instructor) and **stamp** of the organization.
5. Please visit this link to know the format of report <https://www.iiitd.ac.in/sites/default/files/docs/education/SG-CW-final-report-format.pdf>
6. On completion you need to upload the documents along with certificate and daily logs on the portal.
7. Once it has been verified, you need to give demonstration of the learnt/ acquired SG activity/ skill which is then evaluated by the SG faculty in-charge. The demonstration need to be done in the second week of Monsoon/Winter semester (as per the dates mentioned in the calendar). Work done in Summer Term need to presented in the immediate next Monsoon Semester, work done in Monsoon need to be presented in the immediate next Winter Semester and the work done in Winter Semester need to presented in the immediate next Summer Term.
8. Upon successful completion, you will be informed about your credits status through formal mail from selfgrowth@iiitd.ac.in

FAQ's

1. When can I register for SG? Only at the start of Summer/Monsoon/Winter Semester, or at any time?

The registration dates for SG work will be same as Add/Drop dates as per the Academic Calendar for Summer/Monsoon/Winter. No registrations will be allowed after the last date of Add/Drop as per the calendar.

The best semester to pursue SG is the summers as the students have good amount of time to dedicate to the training of the SG activity.

You have to register on the portal (by submitting the proposal) in the last week of April/July/December for Summer Term/ Monsoon Semester/ Winter Semester respectively, and then check the portal after 2-3 days. If your request for proposal is not approved then drop a mail to community work email id (selfgrowth@iiitd.ac.in)

2. Do I have to get training by an instructor in person? Can't I do some online course related to SG for free?

The goal of this compulsory course is to have practical experience and acquiring the skill in person which isn't achievable by doing online course. As per the report format provided by the institute, you are required to mention in detail about the organization/trainer/instructor you worked with and also asks for the weekly logs.

3. Can I split my 80/90 hours into 40/50 each and can I do 1 credit of work in one semester and the other 1 credit in next semester?

Yes you can split your work.

4. Is it necessary to give demo right after the semester following the completion of SG training?

SG work demonstration dates are announced in the beginning of every semester. It is mandatory to present your work in the semester following the completion of SG work. For this, you need to fill out the form (that will be shared at the end of Monsoon and Winter Semester), after which your documents will be verified and if found correct, you will be allowed to present.

5. Are Powerpoint presentations/slides acceptable during presentation?

Yes. Along with the practical demonstration of the skill. For some skills for which the demo is not possible (Eg. Swimming) the students needs to submit a certificate of completion of the course and also the pictures of practice and progress every week in the power point presentation.

6. Can I skip presentations?

No. It's mandatory to present, based on which final evaluation is done. Without the presentation, your SG credit requirements cannot be fulfilled.

8. Would my work at the summer school in IIITD count toward SG credits?

No, it can be counted towards CW credits.

9. I am not able to get a stamp on my certificate from organization.

In special cases only we allow student to ask the organization to write a formal mail validating student's work and student is supposed to forward the same to selfgrowth@iiitd.ac.in, faculty in-charge and Manager, Academics.

10. Can I do my work outside Delhi?

Yes.

11. Can I do SG in Monsoon/Winter or is it only permitted in the Summer session?

There are no restrictions regarding the scheduling of SG work. If you can manage the workload during the regular semester, you may choose to do so. Your logs are verified against 80/90 or 40/50 hours requirement for 2 or 1 credits respectively.

12. After approval of proposal, is there a time limit within which I need to present my SG work?

Please see Q3 in this FAQ.

13. When is the latest semester when I can present my SG work?

If you wish to graduate in May, you should have presented your work in the preceding winter semester (i.e., your 8th semester). Therefore you need to plan accordingly and submit your SG proposal before the end of your 7th semester. There will be **only one** presentation in a semester (One each in Monsoon, Winter and Summer Semester), typically scheduled in the first half.

14. Will my course fee be reimbursed by the institute?

The Institute has made a provision of reimbursing half the course fee for some activities. Student may contact AM(Student Affairs) or JM(Academics) for more details. For reimbursement, you would also need to submit an original receipt of the payed course fee.

Community Work (CW) Guidelines

What is Community Work (CW)?

Community Work (CW) is a mandatory component of the B.Tech program at IIIT-Delhi. It provides students broader connect with society and self. At IIIT-Delhi, students have to do minimum 80 hours community work, with an option of splitting the community work into 2 activities of 40 hours each for 1 credit each. This activity teaches students about their rights and responsibilities as citizens, and their ability to bring about meaningful change through advocacy and service. It enables students to help to apply skills and content knowledge to real needs in their local community.

Credits: 2

Minimum no. of hours: 80-90

The following must be followed during CW activity:-

1. CW credits can be done in Summer Term/ Monsoon Semester/ Winter Semester.
2. For starting the work you need to submit a proposal on the CW portal in the last week of April / July / December respectively (CW portal- <http://cw.iiitd.edu.in:8089/supervisor/home/>)
3. Once it's been approved, you need to register on ERP as per the add/drop dates mentioned in the Academic Calendar and can start the work with the organisation / NGO.
4. You need to maintain daily/weekly logs and after completion of 80 hours of work, get a valid certificate with the **signature** of the person concerned and **stamp** of the organisation.
5. Please visit this link to know the format of report <https://www.iiitd.ac.in/sites/default/files/docs/education/SG-CW-final-report-format.pdf>
6. On completion you need to upload the documents along with certificate and daily logs on the portal.
7. Once it has been verified, you need to present your work in the poster presentation done in the second week of Monsoon/Winter/Summer semester (as per the dates mentioned in the calendar). Work done in Summer Term need to presented in the immediate next Monsoon Semester, work done in Monsoon need to be presented in the immediate next Winter Semester and the work done in Winter Semester need to presented in the immediate next Summer Term.
8. Upon successful completion, you will be informed about their credits status through formal mail from communitywork@iiitd.ac.in

FAQ's

1. When can I register for CW? Only at the start of SummerTerm/ Monsoon/ Winter Semester, or at any time?

The registration dates for CW work will be same as Add/Drop dates as per the Academic Calendar for Summer Term/ Monsoon Semester / Winter Semester. No registrations will be allowed after the last date of Add/Drop as per the calendar.

You have to register on the portal (by submitting the proposal) in the last week of April/July/December for Summer Term/ Monsoon Semester/ Winter Semester respectively, and then check the portal after 2-3 days. If your request for proposal is not approved then drop a mail to community work email id (communitywork@iiitd.ac.in).

2. Do I have to work with an organisation/NGO? Can't I do some online course related to community or teach students for free?

The goal of this compulsory course is to have practical experience of working with the community which isn't achievable by doing online course. As per the report format provided by the institute, you are required to mention in detail about the organisation/NGO you worked with and also asks for the weekly logs.

3. Can I split my 80/90 hours into 40/50 each and can I do 1 credit of work in one semester and the other 1 credit in next semester?

Yes you can split your work.

4. Is it necessary to give presentation right after the semester following the completion of CW work?

Poster presentation dates are announced in the beginning of every semester. It is mandatory to present your work in the semester following the completion of CW work. For this, you need to fill out the form (that will be shared at the end of Monsoon and Winter Semester), after which your documents will be verified and if found correct, you will be allowed to present.

5. Are Powerpoint presentations/slides acceptable during presentation?

No. You need to make a poster on chart paper or you can take printouts and pin them on the board. The idea is to nicely present your work done. We don't expect a fancy poster, but your presentation should be informative and professional.

6. Can I skip presentations?

No. It's mandatory to present, based on which final evaluation is done. Without the presentation, your CW credit requirements cannot be fulfilled.

7. Is there a list of NGOs through which I can complete my CW requirements?

Visit the portal and there you can see list of registered NGOs and also the example CW project reports for reference. In case your NGO is not listed, the TA will check it and verify your proposal.

8. Would my work at the summer school in IIITD count toward CW credits?

Yes.

9. I am not able to get a stamp on my certificate from organization.

In special cases only we allow student to ask the organization to write a formal mail validating student's work and student is suppose to forward the same to communitywork@iiitd.ac.in, faculty in-charge and Manager, Academics.

10. Can I work for an NGO outside Delhi?

Yes.

11. Can I do CW in Monsoon/Winter or is it only permitted in the Summer session?

There are no restrictions regarding the scheduling of CW work. If you can manage the workload during the regular semester, you may choose to do so. Your logs are verified against 80/90 or 40/50 hours requirement for 2 or 1 credits respectively.

12. After approval of proposal, is there a time limit within which I need to present my CW work?

Please see Q3 in this FAQ.

13. When is the latest semester when I can present my CW work?

If you wish to graduate in May, you should have presented your work in the preceding Winter semester (i.e., your 8th semester). Therefore you need to plan accordingly and submit your CW proposal before the end of your 7th semester. There will be **only one** presentation in a semester (One each in Monsoon, Winter and Summer Semester), typically scheduled in the first half.

38.33 Industry Sponsored MTech Thesis

One of our stated values is “industry facing”. To enhance our engagement with industry, we can explore “MTech Thesis Sponsorship” program by industry. Contours of the program are:

- A company can sponsor an MTech thesis through a faculty member. In this case, the problem of the thesis will be of interest to the sponsor, and, of course, agreed by the faculty adviser.
- The thesis may (or may not) have a co-guide from the sponsoring company. In this case, the industry co-supervisor will have to be approved.
- The sponsoring company will give a sponsorship to IIT-Delhi, which will be whatever is agreed between the faculty member and the industry, but should not be less than Rs 3 Lac. One-third of this will go as consultancy fee to the supervisor, one-third to the Institute, and one-third to the Department of the supervisor.
- The student will be designated as an RA after one year (i.e. in the 2nd year) to focus on the sponsored thesis work. He will continue getting his/her stipend. He/she may spend parts of his/he time during MTech in the sponsoring organization to work on the thesis. (For any visit and stay, the sponsor will have to cover all expenses, and pay allowance that may be necessary for student to sustain him/her self comfortably.)
- Publications, if any, will follow the standard scholarship norms for authorship.
- If IP is created, it will be authored jointly (i.e. if a patent is filed, it will have student and his/her IIT-D adviser as co-inventors). If the sponsoring organization pays for patent filing, the patent will be owned by the organization. If IIT-D files it, then IIT-D will own it. However, regardless of who owns the patent, the IP can be used by the sponsor and IIT-D without any restriction.

We can write to various companies and inform them about the program. All faculty will be encouraged to explore their contacts for this. The advantages are clear – we will have more engagement with industry, more industry-facing work will get done, the faculty, department, and institute benefit financially also. Students are also likely to like this, as such industry-facing projects can enhance their placement possibilities.

We can expand this to BTech thesis also – small stipend for the student will have to be factored in. Sponsoring of PhD thesis already exists in some ways – a company can give a project which has funds for PhD student.

38.34 Encouraging Casual Students from Industry

We have a casual student program, in which people from outside can register for a course by paying fee to the Institute. It is suggested that we expand this program and actively encourage people from industry to take some courses.

To make it more attractive for faculty, and the department offering the course, we can share the course fee. One-third of the fee will go as honorarium to the instructor, one-third to the Institute, and one-third to the Department of the instructor/course.

To encourage casual students from industry, we can publicize it in NCR (this is the only area from where students can come.) This will help us engage better with industry, as well as improve our messaging to them. If some students from industry enroll in some courses, this will enrich the course also, as such students may bring a different perspective and experience to the course.

Perhaps we can even offer some courses that are more industry needed (e.g. Data Science, Machine Learning, etc.) in slots that are more conducive for industry folks (say in the evening 5 to 630).

**Memorandum of Understanding (MOU)
for a
Dual/Joint Doctoral Degree Program
between
Indian Institute of Technology Kanpur (IITK)
and
University at Buffalo (UB)**

The

Indian Institute of Technology Kanpur (IITK)
Kalyanpur, Kanpur India 208016
Represented by its Director
Professor Indranil Manna

and

University at Buffalo (UB)
501 Capen Hall
Buffalo, NY 14260
Represented by its President
Professor Satish K. Tripathi

agree as follows:

General Principles

The dual/joint PhD degree program:

- where the program is jointly directed by two faculty supervisors at these two institutions
- where the dissertation is jointly directed by two faculty supervisors at these two institutions
- where the graduates are awarded two separate degrees
- where each partner will specify in writing that the degree is conferred under a **dual/joint** supervision arrangement, which is governed at IITK by the Board of Governors IIT Kanpur, and which is governed at UB by the State University of New York (SUNY) as regulated by the New York State Department of Education (SED).

Awarding of the final degree as issued by the two institutions is governed at IITK by the Board of Governors IIT Kanpur, and all other legal norms which are in place at the time of granting the diploma, and at UB by the State University of New York (SUNY) as regulated by the New York State Department of Education (SED).

Admissions

Each partner agrees to admit exceptional students who hold at minimum a Bachelor's degree into the dual/joint doctoral degree program. Students interested in getting admitted into the DDP/JDP (Dual/Joint Degree Program) shall first be selected into the PhD program at either Institution as per the selection procedures of the respective Institution. This Institution shall be called the Home Institution. The collaborating departments from both the Institutions shall then select potential DDP/JDP Scholars from among the students thus selected into the individual

PhD program at either Institution. The admission to the DDP/JDP shall be subjected to the normal application and selection criteria and other entrance requirements for entry into the PhD program at the Partner Institution. The procedure shall normally be carried out within six to twelve months of the student initially enrolling in the PhD program, through video conference and/or by any means including exchange of data pertaining to the students, reference letters, and so on. Students finally selected into the DDP/JDP shall be enrolled on a full-time basis at both Institutions.

Selection of supervisors shall conform to the policies in force at the respective Institutions. External supervisors of IIT Kanpur students must comply with the requirements of the IITK policy relating to the supervision of doctoral students. External supervisors of UB students must comply with the requirements of the UB policy relating to the supervision of doctoral students.

The primary supervisor shall be from the Home Institution. There must be a co-supervisor from the Partner Institution.

Before the student matriculates at UB as a part of the residency requirement, the student must fulfill UB's minimum academic admission conditions, including minimum TOEFL and GRE scores required by the Department at UB.

Financial Support

Each Institution will provide a letter to the student, indicating the amount of financial support offered (in the form of tuition scholarship and stipend), at the time of admission to the dual degree program. In addition, the student is entitled to apply for any additional scholarships for which s/he is eligible. The student may seek and be awarded additional funds (scholarships, stipends, fee waivers, etc.), provided that such additional funds do not violate the terms and conditions of this agreement.

Language

The working language for all communications and reporting, including course work, exams, doctoral defense, and the doctoral dissertation will be in English.

Duration of Program

The program duration is typically expected to be five years from the start of the program. Requests for extension of the program in order to fulfill academic requirements, or due to extenuating personal circumstances, must be made to the student's home university.

Residence

It is expected that students will spend an approximately equal period of time at each institution. Students can apply to spend time at a third institution, if of value to the academic program. UB degree requirements specify that PhD students must spend a minimum of 1 year in residence at UB and earn a minimum of 36 credits (with a maximum of 36 credits transferred from other institutions). IITK degree requirements specify that PhD students must earn a minimum of 36-54 IITK units (depending on the departmental requirements, each 3 hours lecture course is equivalent to 9 IITK units) for students admitted to the program with a Master's degree and 72-90 units for the students admitted with a Bachelor's degree. IITK degree requirements specify that PhD students must spend a minimum of 1 year in residence at IITK. The mobility schedule is subject to approval by both faculty supervisors. Additional courses may be taken when

recommended by the faculty supervisors where applicable toward the DDP/JDP degree program. If a DDP/JDP scholar earns credit for a course in one institution, the course can be transferred to the other institution so long as home institution maximum transfer limits are upheld.

Registration and tuition

Registration and its associated tuition costs alternate between the two institutions. When the student is in residence at UB, he/she will receive a scholarship to cover tuition costs and a modest living allowance (stipend). When the student is in residence at IITK the student will receive a scholarship on par with the other PhD students at IIT Kanpur.

Health Insurance

While in residence at UB, the student must show proof of appropriate health insurance coverage.

While in residence at IITK, the student will be provided the same medical benefits as is provided to the IITK students.

Student Financial Responsibilities

The student is responsible for travel and any living costs beyond those covered by the stipend provided. The student has access to funding for research costs from the laboratory in which the research is conducted. The student is responsible for paying any and all fees associated with registration while in residence at UB and at IIT.

Accommodation

Each institution will assist the student in finding accommodation at a reasonable cost, but in no event is either university obligated to provide housing for any student under this program. As is customary, both Institutions will assist the student in this regard to the fullest extent possible.

Program of Study Supervision

Each institution will designate one faculty member from its own institution as a supervisor of the student. The two faculty supervisors provide scientific guidance and are responsible for the student's academic program and research. The faculty supervisor at the university at which the student is a resident will provide advice and assistance concerning academic matters.

Student activities

The student's principal activity is to pursue a program of study leading to a dissertation defense and degree completion. The student is also required to fulfill all other minimum degree requirements of the two Departments/Schools in which s/he is registered.

Academic Regulations and Research Ethics

- a) The student must comply with the regulations of the Institution at which s/he is in residence, including those governing academic and non-academic misconduct.
- b) The student's dissertation research must meet all requirements for the ethical conduct of research at both Institutions.

Regular progress evaluation

Each institution will conduct its own regular (at least annual) evaluation of the student's progress. All evaluations will be shared between the two institutions.

Final evaluation and submission of the dissertation

The student may enroll in courses at either institution and take exams as directed by each supervisor. The student must satisfy all degree requirements of both institutions including coursework and any required examinations. After having completed such requirements, and provided that the student successfully defends the dissertation, the student will receive the degree of Doctor of Philosophy (PhD) degree at IITK and a Doctor of Philosophy (PhD) degree at UB.

Dissertation Supervision and Committee Membership

The student will undertake his/her program of study and research under the responsibility of one faculty supervisor at UB, one additional Graduate Faculty member at UB, and a faculty supervisor at IITK and the Convener DPGC or his/her nominee (in the case of IITK) (collectively, the “dissertation supervisors”). The dissertation supervisors must meet all of the standard requirements for doctoral supervision at their own Institutions.

Dissertation Defense

- a) The dissertation defense committee will be co-chaired by the two supervisors (one from each institution).
- b) The dissertation defense will have the following make-up: the two faculty supervisors, one additional UB graduate faculty member, one additional faculty member of the participating department of IITK, one IITK faculty member from another department and an external member nominated by the Senate Chairman of IITK.
- c) Only one dissertation defense will be held, and it shall be open to the public. The defense will be attended (in person or via teleconference) by the dissertation supervisors and others.
- d) If the student passes the defense, s/he is considered to have satisfied the dissertation defense requirement at UB, and a PhD degree from UB may be conferred upon the student.
- e) If the student passes the defense s/he is also considered to have satisfied the dissertation defense requirement at IITK, and the PhD degree from IITK may be conferred upon the student.
- f) The dissertation will be written and presented in English as will all comments and/or reports submitted in writing or given orally by examiners.

Protection of the Dissertation

- a) The protection of the contents of the dissertation is subject to the rules of the two institutions concerning publication of the dissertation and protection of research results. In case of any conflict in these rules, the student shall be governed by the rules of the institution where the student is originally matriculated.
- b) If necessary, a specific agreement covering intellectual property will be made for individual students.

Intellectual Property

- a) Ownership of intellectual property created by a student under UB/IITK joint supervision should be determined through an agreement between the two institutions. The agreement should be reached before the student graduates.

- b) The intellectual property agreement should encompass, among other things, shared understanding about authorship, records of data, ownership and/or use of data, publication rights, interests of collaborators, interests of third parties (such as donors or industry partners), and commercialization potential.

Submission and Reproduction of Dissertation

Rights and responsibilities concerning dissertation submission, reproduction, and publication are subject to the policies and procedures in force at the two Institutions. If the Institutions' regulations contradict or conflict with each other, a solution will be negotiated between the Designated Representatives.

Degree Certificate/Transcript Notation

The degree certificate that is issued by IITK and the official transcript that is issued by UB will specify that the degree is conferred under a dual/joint supervision arrangement.

Term and Termination

- a) This agreement will be terminated immediately upon written notice that the student has ceased to be registered at, withdrawn from, or terminated his/her studies at either Institution.
- b) Any party may terminate this agreement for cause if another party breaches a material term of this agreement and fails to rectify such breach within thirty (30) days of receipt of notice. Termination of this agreement is without prejudice to any other rights the terminating party may have.
- c) This agreement may be terminated by either institution at any time upon six (6) months' written notice, provided that the termination shall not affect any existing contracts between the institutions and any such other contracts shall be completed in accordance with their terms.
- d) This agreement may be amended or modified at any time by mutual written consent of the parties. Any such amendments or modifications will take the form of letters of agreement signed by all parties in support of this agreement.

Notices

Any notice required to be given under this agreement must be in writing and addressed to the designated Representatives at the address set forth in this agreement, or if subsequently amended, to the amended mailing address. Notice will be deemed given (i) when verified by written receipt if sent by courier, or when received if sent by mail without verification of receipt; or (ii) when verified by automated receipt or electronic logs if sent by facsimile or email. Notices sent by facsimile or email should be followed as soon as possible by original signed documents.

Independent Institutions

Nothing contained in this Agreement should be construed to create or imply a joint venture, partnership, principal-agent or employment relationship between the two universities, other than the dual/joint degree doctoral program as described above.

Contact Persons

IITK appoints the following as contact person:

Dr. A. Kushari, Associate Dean of International Relations
Dr. Rajeev Gupta, Associate Dean (PG), Academic Affairs

UB appoints the following as contact persons:

John Wood, Senior Associate Vice Provost for International Education
Katharine Darling, Associate Dean for Academic Services, The Graduate School

Signed on behalf of the University at Buffalo, The State University of New York:

Professor Satish K. Tripathi
President

Signed on behalf of the Indian Institute of Technology Kanpur:

Professor Indranil Manna
Director

Date

Special requirements for Social Science

Page 3-4:

Eligibility and Admission Criteria: (Discipline-wise requirements)

Economics:

Application Eligibility:

M.A./MSc/MPhil in Economics, Statistics or Mathematics

BTech/MTech. in any discipline and/or MBA with strong interest in economics.

Entrance test and Interviews:

Eligible candidates will be invited to write an entrance examination that will test the candidate's foundational knowledge in intermediate economics.

Short-listed candidates from entrance exam stage will be interviewed by an expert committee and the final decision on the admission will be made based on the candidate's overall performance.

Candidates applying for PhD in Economics should submit a 2-page statement of purpose (SoP) delineating research theme(s) within Economics that may include specific questions of potential research interest to the candidate. The candidate is expected to clearly express his/her interest in the outlined research theme(s) or questions to the extent possible.

Sociology/Anthropology:

Application Eligibility:

M.A./MSc/MPhil in Sociology or Anthropology

BTech/MTech. in any discipline and/or MBA with strong interest in sociology/anthropology.

Entrance test and Interviews:

Eligible candidates will be invited to write an entrance examination that will test the candidate's knowledge in foundational Sociology and Anthropology topics.

Short-listed candidates from entrance exam stage will be interviewed by an expert committee and the final decision on the admission will be made based on the candidate's overall performance.

Candidates applying for PhD in Sociology/Anthropology should submit a 2-page statement of purpose (SoP) delineating research theme(s) within Sociology/Anthropology that may include specific questions of potential research interest to the candidate. The candidate is expected to clearly express his/her interest in the outlined research theme(s) or questions to the extent possible.

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Change from One Program to Another

The institute does not currently have offer a Masters in any of the Social Science disciplines. Therefore, if a candidate fails his or her comprehensive exam or the student's PhD thesis is not found suitable, the student will have to withdraw from the institute without a degree.

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Coursework requirement:

Till the number of on-campus PhD-level courses offered is greater than 8, any number of online courses may be allowed with permission of PGC and the supervisor.

PhD students will be required to complete 32 credits of PhD level coursework, except for students who enter after an MPhil for whom some credits (no more than 8) may be waived.

500-level courses (or higher) will be considered towards the PhD program. However, students may be allowed to take at most two advanced undergraduate courses (300-level or higher) with permission of PGC and the supervisor.

Maximum of 2 Independent Study courses are allowed to be counted towards PhD credits. Independent Project credits are disallowed for PhD program in SS disciplines.

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Comprehensive Exam

Time limit for completion of comprehensive exam is 4 semesters, irrespective of the students' background, although in special cases one semester extension may be provided with permission from the supervisor and PGC. Students with an MPhil degree may be considered for an earlier comprehensive exam.



Semester Schedule for Summer Term 2018

S.No.	Activity	From Date	Day	To Date	Day
1	Course Add/Drop	7-May-18	Monday	15-May-18	Tuesday
2	SG / CW Presentations	10-May-18	Thursday		
2	Commencement of Classes	17-May-18	Thursday		
3	Mid-Sem Examinations	6-June-18	Wednesday	8-June-18	Friday
4	Last date for Late Drop	14-Jun-18	Thursday		
5	End-Sem Examinations	9-Jul-18	Monday	11-Jul-18	Wednesday
6	BTP Poster Presentation	12-Jul-18	Thursday		
7	Moderation Meeting	16-Jul-18	Monday		
8	Announcement of Grades (tentative)	19-Jul-18	Thursday		

Monsoon 2018 Semester					
1	3 Day Modules for B.Tech Students	26-28 July 2018	Thursday-Saturday		
2	First Class of the Semester	1-Aug-18	Wednesday		

Annexure III

ACADEMIC CALENDAR (MONSOON SEMESTER 2018)																											
Week 0 (July)						Week 1 (July-August)						Week 2 (August)						Week 3 (August)									
Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat				
23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
			Semester Begins						1st Day of Class	Last Day of Late Regs.					Last day for course Fee/ Drop				TT: Wed			1st CW Presentation	Midsem Exam Day			ESYA (Festivals)	
					3 Days Module for B.Tech Students																						
Week 4 (August)						Week 5 (August-September)						Week 6 (September)						Week 7 (September)									
Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat				
20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
		Rakhi	TT: Wed		Continues (Tentative)							Jamnat and															
Week 8 (September)						Week 9 (September)						Week 10 (October)						Week 11 (October)									
Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat				
17	18	19	20	21	22	23	24	25	26	27	28	29	1	2	3	4	5	6	7	8	9	10	11	12	13		
																			Mid-Sem Examinations (15.09.18-25.09.18)								
					Dropped GH														Mahatma Gandhi's Birthday			Last Date for Late Drop					
Week 12 (October)						Week 13 (October)						Week 14 (October-November)						Week 15 (November)									
Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat				
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	
Week 16 (November)						Week 17 (November)						Week 18 (November-December)						Week 19 (December)									
Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat	Mon	Tue	Wed	Thur	Fri	Sat				
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	

Regulations for Minor in Economics

Minor Program:

A BTech student can earn a minor certification in economics by completing a total of 20 credits from economics courses. Of these, 16 credits must be earned by completing regular courses while remaining 4 credits may be earned by completing additional coursework or by completing independent study (IS), undergraduate research (UR), or independent project (IP). The minor program is designed to impart basic training in microeconomics, game theory, and econometrics. Students interested in specific areas of interest for which a formal course is not offered may opt for independent with individual faculty.

Courses:

In order to earn a Minor in Economics, a student must complete the core courses and complete the remaining credits by choosing the electives offered from Economics, Management or Finance.

Core Courses for a Minor in Economics: Microeconomics, Game Theory and Econometrics I.

Benchmarking: Economics-minor programs at North American and Indian universities typically require six courses in economics, including *Probability and Statistics*, which all BTech students take in 1st year. Thus, the proposed 20-credit program is standard.

Sequencing: Recommended sequence (in bold).

Year	Fall / Monsoon	Spring / Winter
2		Microeconomics
3	Game Theory, Econometrics I, MAN elective	ECO core/electives or MAN electives
4	ECO core/electives, or MAN electives, or IP/UR/IS	ECO core/electives, or MAN electives, or IP/UR/IS

Notes:

1. The regulations for Minor in Economics are applicable for students who commenced their BTech program in the year 2015 or later years.
2. A course on ‘Microeconomics’ in this latest version of the regulations document is equivalent to the ‘Introduction to Economic Analysis’ course from the previous versions.
3. A course on ‘Econometrics I’ in this latest version of the regulations document is equivalent to the ‘Applied Econometric Analysis’ course from the previous versions.
4. Students registered in the BTech CSSS program are debarred from earning a Minor in Economics.

Change History:

July, 2014 release

January 2017 release

May, 2018

Regulation for Minor in Computational Biology (CB)

Minor Program: A BTech student can earn a minor certification in computational biology by completing 16 credits of regular courses, and further 4 credits through additional coursework, independent study (IS), undergraduate research (UR), or independent project (IP), or 8 credits of BTP on a core Computational Biology topic, with prior approval by CB UG Coordinator, for a cumulative 20/24 credits in Computational Biology. The program is intended to be complementary to CSE/ECE/CSAM/CSD/CSSS, and emphasizes on the foundations of cell and molecular biology, biochemistry, genetics, mathematical biology, systems biology and computational genomics. Students pursuing BTech in CSB cannot opt for a Minor in Computational Biology.

Courses: All courses are for 4 credits, except IQB, and require 3rd year standing or higher.

1. *Introduction to Quantitative Biology (IQB)*: Foundation course consisting of fundamental aspects of cellular and molecular studied by quantitative approaches as well as simple mathematical/statistical and computational tools.
2. Any 3 BIO-numbered (3xx to 6xx) course (except FOMB/IP/IS/UR/BTP/BIOX71—BIOX80) as long as pre-requisites are fulfilled.

Core Courses: IQB, listed above, is mandatory for the minor degree.

Recommended sequence of courses: IQB is recommended as the first course for the minor in computational biology.

Change History:

July, 2014 release

January, 2017 release