ACADEMIC

BOOKLET

DISCLAIMER

The information in this booklet has been compiled by the BSW to serve as a one-stop guideline for all students of IIT Delhi. It may happen that the information or rules mentioned here might change without our notice. You are therefore requested to consult the Courses of Study or the competent authorities before making any decisions.

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BASIC COURSE RELATED INFORMATION

Course Registration

IIT Delhi follows a slot system where each slot corresponds to a particular timing in the Time Table and exam schedule. Each student can take up only one course in a particular slot to prevent a clash. The slotting pattern is as follows:

Day	8-8.50	9-9.50	10-10.50	11-11.50	12-12.50	CYCLE NO.	1-1.50	2-2.50	3-3.50	4-4.50	5-5.50	6-6.50
Monday	A	B	H	J		1	TE1	AA	AB		M	
								PE1				
						2	TEF2	PE3				
						3	PB3		PC3			
						4	TA4	TD4	PD4			
Tuesday	C	D	E	F	J	1	TA1	AC	AD		K	L
								TD1	PD1			
						2	TE2	PE2				
						3	TF3	PF3				
						4	PB4		PC4			
Wednesday	C	D	E	H	K	1			INSTITUTE LEVEL SEMINARS/MEETINGS (NO REGULAR CLASSES)			
						2	L/TG1	L/TG2				
						3						
						4						
Thursday	A	B	F	H		1	AA	AB			M	
							PB1	PC1				
						2	TA2	TD2	PD2			
						3	TE3	PE3				
						4	TF4	PF4				
Friday	C	D	E	F	J	1	TF1	AC	AD		K	L
								PF1				
						2	PB2	PC2				
						3	TA3	TD3	PD3			
						4	TE4	PE4				

For complete information on slotting pattern refer to timetable.iitd.ac.in

The registration for each semester begins before the end of the previous semester as specified in the Academic Calendar. For registration, follow the following

* Login at http://academics1.iitd.ac.in before the last date and click on the corresponding tab. Here, you will be able to add courses according to course code or course slot.

* Before adding your courses, do refer to your respective course plan in the CoS (pg 37-69). This course plan is not binding, but is recommended for timely degree completion.

* You can correspondingly add your core courses.

* For HU courses, go the tab for the HU choice sheet on Academics1. Here you are required to fill a preference order for the HU courses.

* You will be alloted a maximum of one course using several shortlisting criteria and your preference order.

* You can also add additional courses as extra load or to complete OC/DE credit requirement.

* For the complete list of courses offered in the next semester, refer to the list on Academics1.

* Each course has a cap on the number of seats. Correspondingly, if registrations exceed number of seats, the Course Coordinator might increase number of seats or might keep a shortlisting criteria like seniority or CGPA.

* You can check your final course allotment on Academics1 just before the start of the next semester.

Please note some courses have pre-reqs and minimum number of earned credits as requirement. You can check this at the course description in CoS. You need to fulfill these requirements to add the course.

1.

Add/Drop, Audit and Withdrawal of Courses

• Add/Drop:

A student has the option to add courses that he/she has not registered for, or drop courses for which he has already registered for. This can be done only during a particular period, usually the first week of the new semester. Addition of the course is subject to vacancies in the course.

• Audit:

A student has the facility to Audit courses worth 8 credits in the OC/DE during their stay at IIT. This can only availed after the student has completed at least 85 credits of their degree. Auditing a course implies that the course won't be included in the CGPA/SGPA calculation but the credits will be awarded to the student. Only a Audit Pass(NP)/Audit Fail(NF) will be awarded according to a criteria set by the course coordinator announced at the start of the semester. A student may apply for changing a credit course to an audit course before a deadline specified in the Semester Schedule. This can be done using Academics1.

• Withdrawal:

 A student who wants to withdraw from a course should apply on Academics1 before a deadline specified in the Semester Schedule (usually just after Minor 2). A withdrawal grade (W) will be awarded in such cases. For withdrawing of core course, a permission is required from the course coordinator.

Re-Major

A student might apply for a re-major on medical grounds (missed major exam resulting in an Incomplete(I) grade) or on getting an E grade. To apply for a re-major students on medical grounds students must submit the medical certificate before the end of the Major exams to be awarded an I grade. Students who have been awarded an E grade can maximum improve their grade to a D grade. Re-Majors are usually held in the first week of the next semester.

HUSS

:- Ever thought idea of studying sociology, psychology, history, economics in an engineering college? Well if social studies used to be super engrossing and fascinating for you in school then be ready to bring back the fun again in IIT Delhi. Yes, Department of Humanities and Social Sciences offers you courses in Humanities and Social Sciences.

:- One has to complete compulsary 15 credits of HUL (popularly reffered to as hukke) in 4/5 years of engineering by doing three 4 credit courses and one 3 credit course(Generally).

Reference : *Pg.213 of Course of Study(2017-18)*

Open Courses/Electives

As we all know that I.I.T. Delhi curriculum includes some compulsory foundation courses in the areas of basic sciences, humanities, social sciences and engineering sciences apart from departmental requirements in the core engineering discipline. But apart from this, students also do open category courses to develop broad inter-disciplinary knowledge base or to specialize significantly in an area outside the parent discipline. So summarizing one can take the courses which are not their department core but have interest in it. If a course has certain pre-req then one has to complete those requirements before taking the course.

Electives are of two types:

Open category(OC):
In this one can take electives of any other department(one has to complete a minimum of 10 credits in OC's apart from HUL courses)

Departmental Electives (DE):
These are particular to a department only.(one has to complete a minimum of 14 to 15 credits of DE's)

* You can opt for HUL/OC/DE from II year onwards.

Restart, Probation And Faculty Advisor

Restart:

If a student fails to complete a certain number of credits (23 for General/OBC and 19 for SC/ST/PD) , he /she is given an option to restart his degree (offered only once) or his/her registration will be terminated.

Probation:

If a student fails to earn at least 12 credits with an SGPA >= 5 or has a drop of more than two in SGPA in subsequent semester he/she is placed on Probation, a warning will be given to him and an intimation sent to his parents. For further details refer *Pg. 12 of CoS.*

Faculty Advisor:

Students under probation are appointed with an official advisor who helps in their guidance and helps in planning their academic background. They can find the name of their advisor at *academics1.iitd.ac.in*. Soon after getting appointed, the professor would contact you for a meeting.

IIT Delhi mainly aims in improving students in the domain of academics and if he/she isn't able to perform better in academics then he/she is assigned with an professor as an advisor based on the criteria of probation.

- It is compulsory for the student to meet his/her advisor regularly.

- It is compulsory for the parents to meet the advisor in the PTM.

- The advisor gets in touch with the parents of the student for proper guidance of the student.

- Professor asks the student to fill a document which includes all the details of his/her academics for the upcoming semester. How student is planning to complete all the courses in upcoming year and how he is going to manage all the courses in which he/she has .received a 'F' grade.

Slow Paced Programme

If a student fails to earn all 34 registered credits in the first year but earns enough to avoid Re-Start he can opt for the slow paced programme.

**Refer CoS : Pg. 13

DepC and Roll Back

DepC or department change is something most freshers are interested in as soon as they enter IIT. Only a handful of students clear the high CG cut offs that are required for DepC. (Well, CS DepC cutoffs are above 9.5). But if you are really determined and don't lose focus during your first year the task is not impossible.

> *The mantra is simple- don't miss classes, (don't sleep in them either), complete your assignments and create a fixed study routine*

While a DepC usually refers to transferring to a department which is above a student's own in terms of the JEE rank, a rollback is transferring to a department lower than a student's own. Say an electrical student transferring to civil. A rollback too like a DepC requires a minimum CGPA of 8 at the end of the first year.

A programme change requires a minimum 8 grade(B) in the following courses:

S.No	Programme Code and Name of the Programme to which Change is sought		Specified Course in which a minimum of B grade is required
1	BB1	B.Tech. in Biochemical Engineering and Biotechnology	CML100: Introduction to Chemistry
2	BB5	B.Tech. and M.Tech in Biochemical Engineering and Biotechnology	CML100: Introduction to Chemistry
3	CH1	B.Tech in Chemical Engineering	MTL101: Linear Algebra and Differential Equations
4	CH7	B.Tech. and M.Tech in Chemical Engineering M	MTL101: Linear Algebra and Differential Equations
5	CE1	B.Tech in Civil Engineering	APL100: Engineering Mechanics
6	CS1	B.Tech. in Computer Science and Engineering	COL100: Introduction to Computer Science
7	CS5	B.Tech. and M.Tech in Computer Science and Engineering	COL100: Introduction to Computer Science
8	EE1	B.Tech. in Electrical Engineering	None
9	EE3	B.Tech. in Electrical Engineering (Power and Automation)	None
10	MT1	B.Tech. in Mathematics and Computing	MTL100: Calculus
11	MT6	B.Tech. and M.Tech. in Mathematics and Computing	MTL100: Calculus
12	ME1	B.Tech. in Mechanical Engineering	None
13	ME2	B.Tech. in Production and Industrial Engineering	None
14	PH1	B.Tech. in Engineering Physics	PYL100: Electromagnetic Waves and Quantum Mechanics
15	TT1	B.Tech. in Textile Technology	APL100: Engineering Mechanics

You can refer to 'Courses of study- page 25' for the exact criteria that are there for a department change.
Here's the link- ***http://www.iitd.ac.in/content/curriculum-info***

Non Graded Units (NGU)

These are particular areas where you need to earn credits but these are not graded. Which means that you either pass (grade - S) or fail (grade - Z) in these courses but there is no concept of partial passing.

S.no.	COMPONENTS	UNITS
1.	Introduction to the Engineering and Programme	2
2.	Language and Writing Skills	2
3.	NCC/NSO/NSS	2
4.	Professional Ethics and Social Responsibility	2
5.	Communication Skills /Seminar	2
6.	Design/Practical Experience	5
	TOTAL	15

1. Introduction to the Engineering and Programme:

This comprise of two parts
(i) Introduction to Engineering (NIN100): A first year compulsory course. [1 credit]
(ii) Introduction to Programme (XXN101): A second year compulsory course. [1 credit]

2. Language and Writing Skills:

This comprises of two courses covered in 1st year NLN100-101 [1+1 credits]

3. NCC/NSO/NSS:

You need to choose one out of the above and complete 100 hours in your first two years. [2 credits]

(i)NSS- Social service
(ii)NSO- Sports
(iii)NCC- Military training and parades

4. Professional Ethics and Social Responsibility :

This comprise of two parts
(i) Regular Classroom Course covered in 1st year (NEN100-101) [1 credit]
(ii) Case Studies and Practical / Field Activity (NEN300 and NEN201 / NEN202 / NEN203) [1 credit]

The first component, Professional Ethics Case Studies, is compulsory, and is offered under the course number NEN300.
For the second component, you can choose to participate in any one out of a large variety of activities relevant to the core themes of PESR.

(a) PESR internships NEN201
(b) PESR workshops NEN202
(c) PESR projects with separate course numbers NEN203

6.

5. Communication Skills /Seminar (2 credits) :

You need to register for at least one topic-specific seminar course in your parent department for earning one unit. [1 credit]
Further, you can earn the remaining one unit through any one of the following means:

• By successfully undergoing a Communication Skills course / workshop as an activity approved by Dean Academics.

• By documentary evidence of excellence in debating and / or writing as certified by faculty in-charge of these activities.

• By participating in course seminars of regular courses the student is attending; for example regular L courses can have optional seminar component.

• Registering and completing a seminar course offered by any Department / Centre / School.
  [1 credit]

You will be required to earn these units during your 5th to 8th registered semester.

6. Design/Practical Experience (5 credits) :

Earn 2 credits through any of the following options:

• Specialized Elective Courses related to Design and Practical Experience
  (Maximum 2 Credits)

• Regular Courses with optional Design and Practical Experience Component
  (Maximum 2 Credits)

• Summer / winter / semester / SURA / DISA projects with Institute faculty, not evaluated for earning credits
  (Maximum 2 credits)

• Co-curricular projects such as Robocon, SAE-mini-baja, iGEM, AXLR8R, etc.
  (Maximum 2 credits)

• Summer Internships with Industry
  (Maximum 2 credits)

• One Semester Internship (Maximum 5 credits)

• Workshop Module on Design and Practical Experience offered by Faculty / Visitors (1 credit each)

7.

SURA, DISA And Project Related Information

Some of the options available to students are :

SURA

To encourage Research & Development activities amongst the students, the IRD Unit invites proposals every year in the month of January from the Undergraduate Students of IIT Delhi. The guiding spirit behind SURA is to encourage students to think and innovate. Under this scheme, students are required to submit the project proposal in association with identified faculty of the Department/Centre to act as an administrative facilitator and a guide.

Eligibility: Undergraduate students moving from 4th to 5th semester, governed by BUGS are eligible for the Award. Students submitting project proposals under SURA should have CGPA of 7.50 or more.
Remuneration: The Award carries remuneration of Rs.1500/- per week per student.
Duration: Eight weeks during summer vacation.
Reference link :
http://ird.iitd.ac.in/content/summer-undergraduate-research-award-sura

DISA

It is a great opportunity to not only get the design credits completed but also explore a whole new world of prototyping. Since the concept is new, understanding what kind of proposals or projects to expect can prove to be useful to make your choices. Unlike SURA, DISA involves interdisciplinary knowledge and a team generally involves students from more than 1 department.

Eligibility: Any student irrespective of his year or CG can apply.
Remuneration: The Award carries remuneration of Rs.1500/- per week per student.
Duration: Eight weeks during summer vacation
In both SURA as well as DISA one gets design credits on completion of the project.

1-2-3-4 project

The objective of this initiative is to enhance research aptitude among undergraduate student and increase the component of 'learning by research'. Involvement of students at a very early stage of their stay at the institute and working jointly with senior students will expose the students to the excitement of research.

A group of 4 students each from 1,2,3 and 4 year of undergraduate programme (5th year for Dual degree) may propose the project under the guidance of a faculty mentor. As the 4th/5th year student will be graduating, an additional student from the 1st year can be co- opted every year so that the strength of the team remains unchanged. IRD will provide up to Rs. 2 lakh per year to the faculty mentor for purchase of consumables etc. Depending upon the progress and performance, the duration of the project may go up to 4 to 5 years. The project will be evaluated every 6 months.

Internships

Summer Intern

Students can undertake a minimum of 40 working days of internship to earn 2 DPE units during summer vacations in Industry, R & D institutions or Universities in India or abroad. This would be administered by the Departmental Committee for DPE, which would also be responsible appointing a faculty supervisor for the internship, and for awarding the Design units. Students can proceed with the internship after the Departmental Committee for DPE approves the same.

Semester-Long Internship / Project

Students can opt for one semester internship in Industry, R & D institutions or Universities in India or abroad, for a minimum of 100 working days, by appropriately planning for completion of credit requirements for the degree. The student can also opt for a semester break to initiate or work for his/her start up. It is mandatory that the internship is supervised by two mentors, one from the institute (appointed by the DPE Committee of the student's Department) and another from the host organization.

In case of semester break for a start- up, students will work under the mentorship of a faculty member of the Institute. Students are required to plan well in advance and submit a project proposal in consultation with their supervisors (in case of internship) or faculty mentor (in case of start-ups). Students can proceed with the internship after the Departmental Committee for DPE approves the same.

Semester Exchange

IIT Delhi offers foreign exchange programs where some selected students study one entire semester (5th semester majorly) in another foreign university (seems quite interesting no!). There are some basic requirements including CGPA 8.0 to sit for Forex interview. Around 8-10 foreign universities offer such exchange programs. So if you want to experience the foreign education system FOREX is right for you :)

BTP & MTP

BTP (Bachelors Thesis project) and MTP (Masters Thesis Project) are necessary for the completion of degree.

BTP consists of mainly 2 parts, one of which is optional. These are known as BTP Part 1 and BTP Part 2. Among these, it is compulsory to complete BTP part 1 to obtain your degree. On the other hand, BTP part 2 is completely optional. One has to complete given number of credits. In some cases, BTP part 2 may be counted as your department electives. In most of the cases, these projects are taken in last year. This does not mean all branch students are able to do BTP Part 2 or are eligible for the same. For instance, in MnC, BTP is offered only in last semester and thus it is not plausible to do BTP Part 2.

For MTP, some branches (like CS, Chemical) ask for a minor project before someone is able to get a MTP.
MTP also consists of 2 projects MTP. Unlike BTP, it is compulsory to do both the parts of MTP and it is not an option to skip part 2.

COURSE	PART	CREDITS	SEMESTER
Biochemical and biotech	1	3	7
Biochemical and biotech(Dual)	1	6	9
	2	14	10
Chemical	1	4	7
Chemical(Dual)	1	8	9
	2	12	10
Civil	1	4	7
CS	1	6	7
CS(Dual)	1	7	9
	2	14	10
Electrical	1	3	7
Electrical (Power & Automation)	1	3	7
Mechanical	1	4	7
Production and industrial Eng.	1	4	7
MnC	1	4	8
MnC(Dual)	1	6	7
	2	12	8
EP	1	4	7
Textile	1	4	7

Minor Degree And Department Specialisation

A student who fulfills the given criteria can register for additional credits from the third semester onwards-

(i) A student who clears all the first year credit requirements with CGPA 7.0 and above will be permitted to register for upto 28 credits from the third semester onwards.

(ii) In case a student does not meet this requirement but has cleared 20×N credits, where N is the total number of semesters spent, then he/she can register up to a maximum of 24 credits per semester.

These additional credits can be used by students to add value through their degrees by registering for courses of their choice. They can also use them in two blocks of 20 credits for the following purposes

Minor Degree:

Find another department other than yours interesting? A minor degree is just right for you!

A minor degree is awarded to a student who completes courses worth 20 credits in that particular department. Obtaining a minor degree puts on you a decent amount of additional workload. So be prepared!

Every student is required to complete courses worth 10 credits from the open category for his degree completion. For students pursuing a minor degree it is advisable to use these credits for their minor degree requirement. This leaves courses worth only 10 credits added to your normal workload. So with a bit of planning a minor degree is not that tough a task.

A minor degree is important if a student wishes to get a job in an area that is not his major. Many students who love coding opt for minors in the CS and M&C department. Students planning to pursue management careers can minor from the Department of Management Studies (DMS)**. *One can even do minor in Economics.*

Departmental Specialization:

Students who are interested in their own departments and want to further their knowledge in the same can apply for a Departmental Specialization.

As in the Minor degree, they need to complete 20 credits for which the 10 open credits might be used. A student can apply for both a Minor degree as well as a Departmental Specialization.

*Please refer to page 70 of the CoS for more information and the list of Minor degrees and Departmental Specializations offered.

**Please refer to Miscellaneous page for more information related to minor area in Management Studies.

MISCELLANEOUS

MINOR IN BUSINESS MANAGEMENT:

Students planning to pursue Business Management can have a minor from Department of Management Studies(DMS). For that, the students need to complete :

Minor area core (12 credits): MSL301, MSL302, MSL303 & MSL304
Minor area electives (9 credits): MSL700 & MSL800 level courses

A similar structure is followed by all the other departments offering a Minor degree or Department Specialisation.
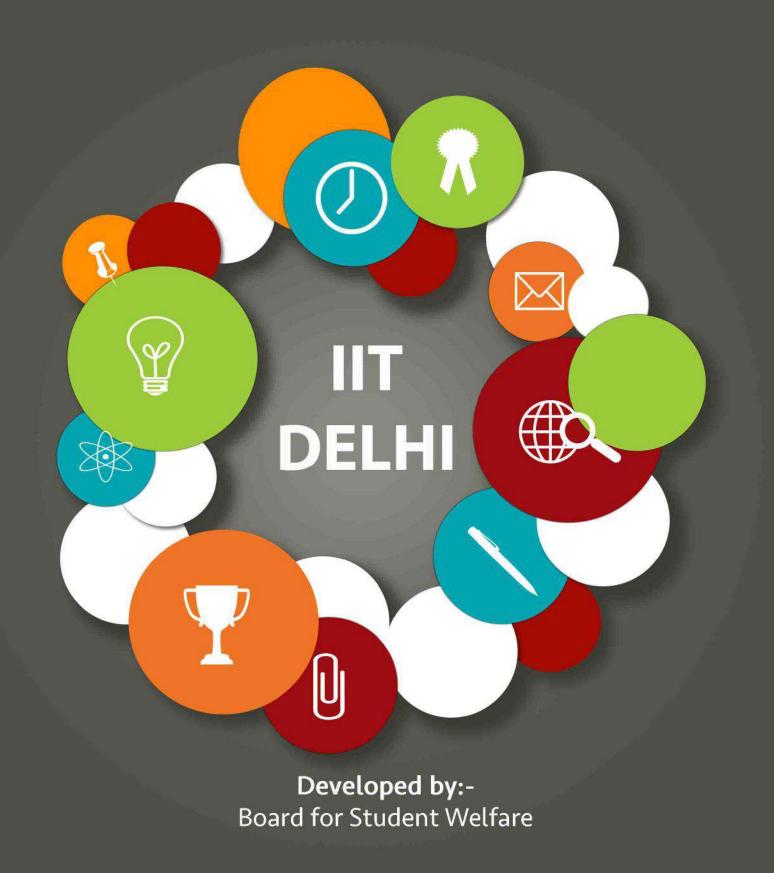
DISCO / OTHER RESTRICTIONS:

SItuations in which Disciplinary action is enforced upon you:-

1. Plagiarism, Downloading of copyrighted movies/books/games via torrent or other means is traceable and students are warned that on receipt of any complaints appropriates fines (minimum Rs 1500) and in case of repeated violation further disciplinary action will be taken.

2. No student residing within the campus is allowed to use a motorised vehicle(Not even a moped) within the campus. It would result in the immediate cancellation of the hostel seat, strict disciplinary action and a fine of Rs. 5000(for 2-wheelers) and Rs.10000(for 4-wheelers).

3. No illegal drugs/alcohol/tobacco should be promoted or consumed by the student community.

4. Students are required to adhere to and comply with any method or device employed by the course coordinator for the purpose of attendance recording. Failure to do so may call for disciplinary action

5. Any instance of ragging is strictly forbidden and will be reported to concerned authorities.
This is a basic info and for more info refer to institute policy and guidelines.

SOME GOOD WEBSITES FOR VIDEO LECTURE AND NOTES:

:- http://ocw.mit.edu/index.htm

:- http://videolectures.net/mit_ocw/

:- http://etsc.iitd.ac.in/videostudio.html

:- http://library.iitd.ac.in/video.php

:- http://nptel.ac.in/

IIT DELHI

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