

Freshers' Orientation

(B.Tech. & Dual Programme)

Disclaimer

These slides were prepared to help you to get some idea about the academic system at IIT Delhi. Following this, you should read the Courses of Study 2021-22 to get the complete overview.

Agenda

- Kerberos ID
- IITD Email ID
- Credit (*LTP ??*)
- Courses (*Details, Category, Slot, Add, Drop, Withdraw, Audit, ...*)
- Grade, GPA
- NGU credits (*MTD, MTN, ...*)
- Disciplinary Action (*DisCo*)
- Portals (*Moodle, ERP, NGU, Webmail, Teams, Impartus, ...*)
- Useful Links
- Programme Co-ordinators

Kerberos ID

- Entry Number:

2018MT10770

Entry year

Programme Code
*MT1 - B.Tech.
MT6 - Dual*

Unique ID

- Kerberos ID:

mt1180770

IITD Email ID

- Email ID:
 - <kerberos_id>@iitd.ac.in (*mt1180770@iitd.ac.in*)
 - <kerberos_id>@maths.iitd.ac.in
- Webmail: <https://webmail.iitd.ac.in>
- You can also configure it on your phone using email clients
(http://www.cc.iitd.ac.in/CSC/index.php?option=com_content&view=article&id=55&Itemid=68)

Welcome!



Enter the text you see in the image above:

ETZ



भारतीय प्रौद्योगिकी संस्थान दिल्ली
Indian Institute of Technology Delhi

IIT Delhi Login

Name:

Password:

Are you using a public computer?
Enter your password with the [virtual keyboard](#)

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Do not reply to any mail asking for your password, credit card info, bank account number, etc. These are all SPAM/Phishing mails.

IITD Email ID

Perks

- Free access to several services
 - MATLAB
 - Overleaf
 - Github Pro + ...
 - Office 365
 - Product discounts (*e.g. Apple Education Store*)
 - ...



Credit

- [L-T-P]: Lecture [L] / Tutorial [T] / Practical [P]
 - One hour of Lecture/Tutorial per week = **1 credit**
 - One hour of Practical (Lab) per week = **0.5 credit**
- eg: MTL100 [3-1-0]
 - *3h Lecture per week:* **3 credits**
 - *1h Tutorial per week:* **1 credit**
 - *0h Practical/Labs per week:* **0 credit**

Credit

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 - One hour of Lecture/Tutorial per week = **1 credit**
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- eg: MTL100 [3-1-0] is a **4 credit** course
 - *3h Lecture per week:* **3 credits**
 - *1h Tutorial per week:* **1 credit**
 - *0h Practical/Labs per week:* **0 credit**

Credit

- [L-T-P]: Lecture [L] / Tutorial [T] / Practical [P]
 - One hour of Lecture/Tutorial per week = **1 credit**
 - One hour of Practical (Lab) per week = **0.5 credit**
- eg: *ELL100 [3-0-2]*
 - *3h Lecture per week:* **3 credits**
 - *0h Tutorial per week:* **0 credit**
 - *2h Practical/Labs per week:* **1 credit** (= 0.5×2)

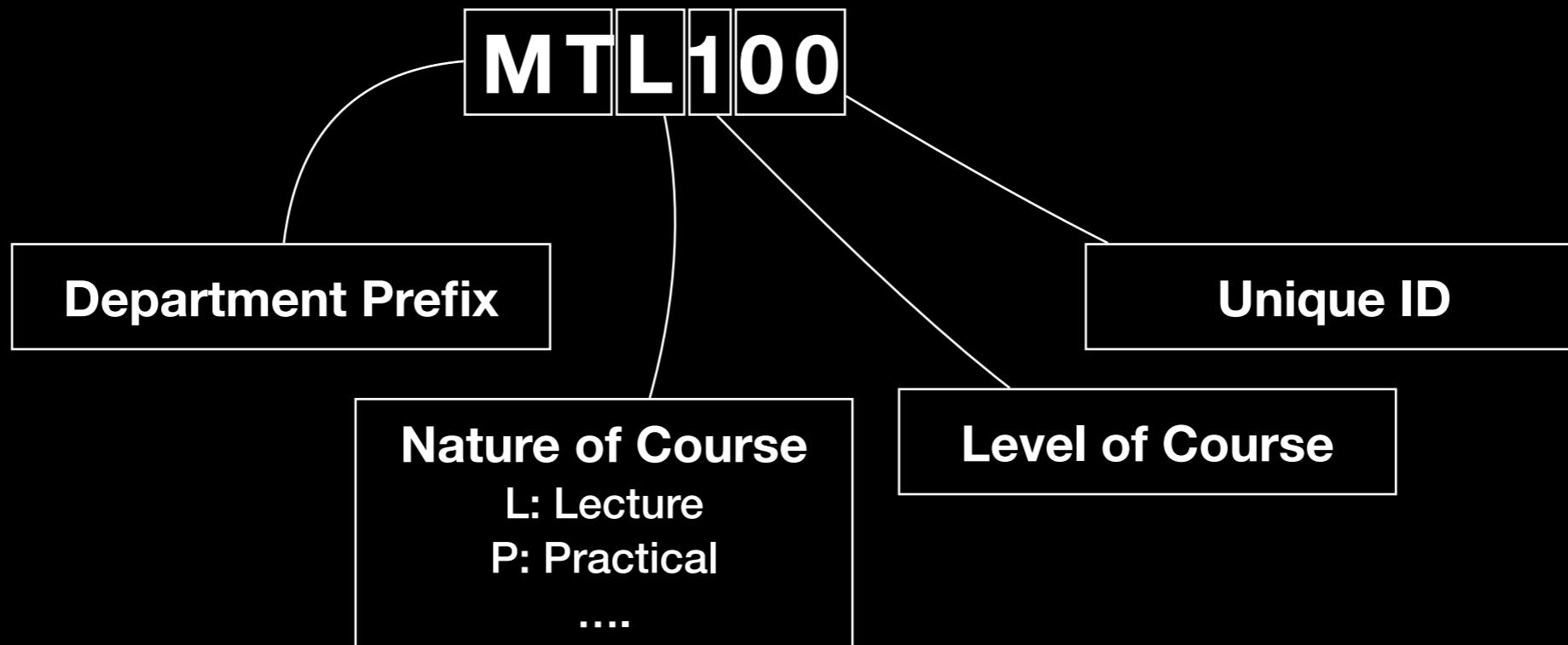
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- eg: *ELL100 [3-0-2]* is a **4 credit** course
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 - *0h Tutorial per week:* **0 credit**
 - *2h Practical/Labs per week:* **1 credit** (= 0.5×2)

Course

Course

Code



Course

Nature of courses

- D** Project based courses (e.g. Major, Minor, Mini Projects)
- L** Lecture courses
 - L** (other than lecture hours, these courses can have Tutorial and Practical hours, e.g. L-T-P structures 3-0-0, 3-1-2, 3-0-2, 2-0-0, etc.)
- N** Non-graded core component
 - P** Practical/Practice based courses
 - P** (where performance is evaluated primarily on the basis of practice, practical or laboratory work with LTP structures such as 0-0-3, 0-0-4, 1-0-3, 0-1-3, etc.)
- Q** Seminar Courses
- S** Independent Study
- T** Practical Training

Course

Level of courses

100 – 400 level courses

Core and elective courses for UG programmes. These courses are not open to any PG student

500 level courses

Courses for M.Sc. programmes.
These courses are not open to other students.

600 level courses

Preparatory/introductory courses for M.Tech. and advanced courses for M.Sc. programmes. 500 and 600 level courses are normally not open to UG students.

700 - 800 level courses

Core and elective courses for M.Tech., M.Des., M.B.A., M.S. (Research) and Ph.D. programmes. Usually 800 level courses are advanced courses for PG students.

Course

Category

Institute Core (IC)	<ul style="list-style-type: none">- Basic Sciences (BS): Mathematics, Physics, Chemistry and Biology courses- Engineering Arts and Science (EAS): Fundamental engineering courses- Humanities and Social Sciences (HUSS): At least two courses to be taken in the 200 level and at least one course to be taken in the 300 level. (MSL 3XX not counted)
Departmental Core (DC)	Compulsory Courses of the programme as listed in Courses of Study [check MT1/MT6]
Programme linked BS/EAS (PL):	Additional BS/EAS courses that are specified by the department (compulsory)
Departmental Electives (DE):	Electives related to the programme (choose to do some number of courses from a list as given in Courses of Study) [check for MT1/MT6]
Open Category (OC)	Courses that can be taken outside or within the discipline <i>(these credits can be used towards departmental specialization or minor area also)</i>
Non-graded Core (NG) units:	Core requirements and can be earned through formal academic activity and informal co-curricular or extra-curricular activities

For Dual Programme, there is also M.Tech. part, which includes:

Programme Core (PC)	Core for M.Tech. part of the programme as listed in Courses of Study [check for MT6]
Programme Elective (PE)	Electives for M.Tech. part (choose to do some number of courses from a list as given in Courses of Study) [check for MT6]

Course

Pre-Registration*

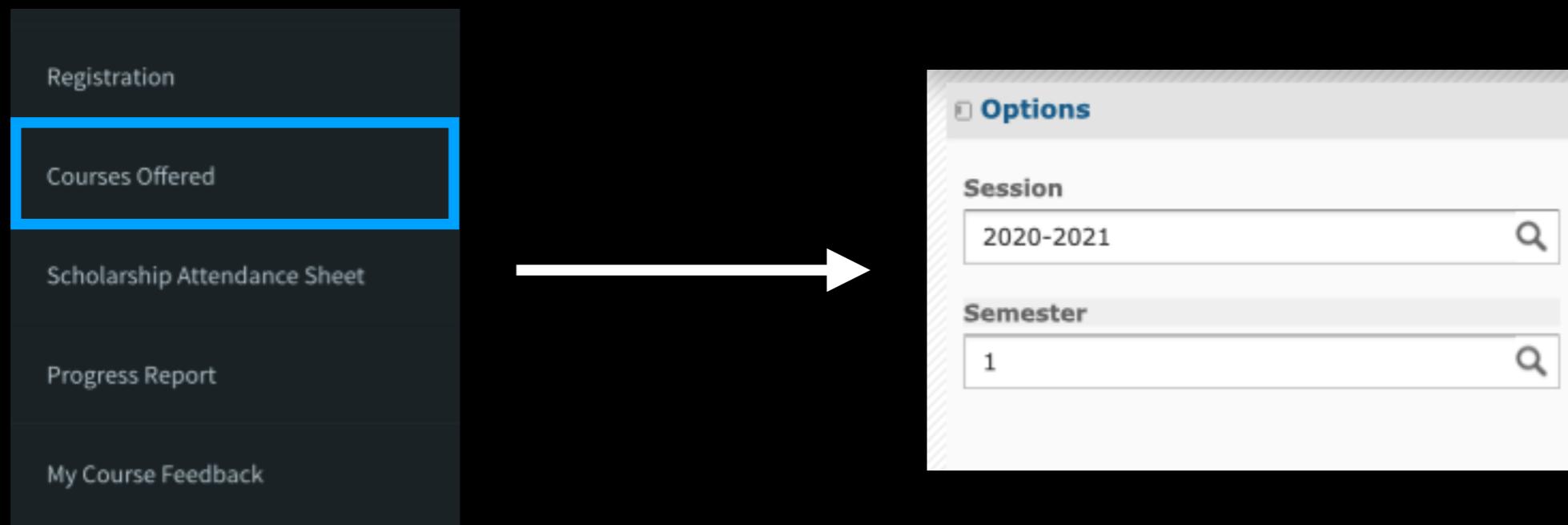
- Request for courses that you are planning to do in the upcoming semester
- Starts after Minor 2 for ~2 weeks *[Check Sem Schedule]*
- Processes via ERP Portal (<https://eacademics.iitd.ac.in>)

* *Not for first year courses*

Course

Pre-Registration

- Courses Offered will be updated on ERP during this period



Course

Definition - Add/Drop

- “A student has the option to **add** courses that he/she has not registered for or **drop** courses for which he/she has already registered for”
- Happens at the beginning of a semester (~10 days)
- Acceptance subject to vacancy (*first come, first served*)
 - Check ‘Courses Offered’ page to know the vacancies

Course

Definition - Audit

- Hide the grade you get in a course — Just Pass/Fail
- Not counted in GPA calculations
- Counted towards credits requirement of the programme
- After Minor 2 for ~1 week

So Audit all the courses???

Course

Audit : Conditions

- In normal/offline semesters:
 - Only elective courses (+Open/HU) can be audited
 - Course coordinator decides if the course can be audited, the pass criteria (along with attendance policy)
 - Allowed to do any number of audit courses over and above the graduation requirements
 - B.Tech. : A maximum of 8 credits from the elective courses
 - Dual-degree: A maximum of 8 credits from the elective courses from the UG part of the programme

Course

Audit : Conditions

- In online semesters, the rules are modified based on the pandemic situation for each semester
- Presently:
 - Up to (1 core & 1 elective) or (2 elective) courses can be audited
 - Does **not** affect the 8 credits limit that you're allowed to audit through your degree
- Audit a course in first year => Not eligible for DepC

Course

Definition - Withdraw

- Leave a course (*after Minor 2*) for some reason
- **Withdraw ≠ Drop**
 - Withdraw:
 - You are enrolled to the course
 - ‘W’ grade for that course on transcript
 - Drop:
 - Not part of course roll-list
 - Nothing appears on transcript

Course

Definition - Pre requisite

- ...
- Can be in terms of Course Requirements/Earned Credits
- e.g. MTL106 is pre-requisite for ML courses
- e.g. For doing B.Tech. Project Part 1, EC ≥ 100
- Mentioned in Description of Course Contents / ERP
(used for courses registration) for each course

Course

Definition - Overlapping courses

- ...
- Not allowed to earn credits by registering for more than one course in a set of overlapping/equivalent courses
- Mentioned in Description of Course Contents for each course in Courses of Study

Course

Attendance Policy

- In an offline semester,
 - Usually, Minimum 75% attendance is required
 - *Else 1 Grade Down (A → A-)*
 - Depends on Course Coordinator
 - In some courses, there might be different policies:
 - Surprise Quizzes
 - Marks based on Attendance
 - No Attendance Policy at all

Course

Slot

- Tells the timings of each course components
- You **cannot** do two courses in same slot in a semester!
- Check Slotting Pattern from timetable.iitd.ac.in > Time Table

Course

Slot

- Talks about the timings of the course components
- Cannot do two courses in same slot in a semester!
 - e.g. D slot courses usually have
 - Lectures @ 9:00-9:50 on Tue, Wed, Fri
 - Tutorial @ 1400-1450 on Tue for Group 1, ...
 - Practical @ 1500-1600 on Tue for Group 1, ...
 - *Timings can be altered by Course Coordinator*

Course

Summary

- Course Code Interpretation
- Course Category
- Pre-registration
- Add/Drop
- Audit
- Withdraw
- Slotting pattern

Choosing courses

- Courses recommended for a semester: [B.Tech.] [Dual]

	MTL712	MTL783	DE 2	MTL458	OC 1	HUL3XX
VI	Computational Methods for Differential Equations	Theory of Computation		Operating Systems		
	3 0 2 4	3 0 0 3	3 0 0 3	3 0 2 4	3 0 0 3	3 0 0 3

Core Course

Dept. Elective
Any Course mentioned under DE in the sheet attached above

Open Course
Any course Not Core/DE/HUL & Not Overlapping & open for UG

NGU

- Non-Graded Units but core requirements for the undergraduate degree [Registration via <https://ngu.iitd.ac.in>]
- NIN100, NEN100, NLN100, NEN101, NLN101 in 1st year
- MTN101 & NSS/NCC/NSO in 2nd year
- NEN201/202/203: PESR Projects; NEN300: PESR Case Studies
- MTD: Department projects; NDN: Interdisciplinary projects
- MTT200/300: Summer Internships; NTT: Semester Internships
- MTQ/... : Seminar courses

NGU

Non-graded core of the undergraduate curriculum comprises the following components:

1.	Introduction to Engineering & Programme	: 02 units
2.	Language and Writing Skills	: 02 units
3.	NCC/NSO/NSS	: 02 units
4.	Professional Ethics and Social Responsibility	: 02 units
5.	Communication Skills/Seminar	: 02 units
6.	Design/Practical Experience	: 05 units
Total		15 units

**Graduation requirement is 11 units in total,
but 1 unit in each category must be earned.**

Grade

- Pass Grade Points range from **10 (A)** to **4 (D)**
- **F** (Fail) if one does not get the minimum marks to pass the course (usually 30%)
- If you audit the course, you get **NP** for **Pass** & **NF** for **Fail** and these grades are *not* counted towards GPA
- For Non Graded Units, **S** means **Pass** and **Z** means **redo**
- Grading policy is set by Course Coordinator and varies from course to course (*including the cutoff for each grade*)

Grade

Table 3 : Grades and their description.

Grade	Grade points	Description
A	10	Outstanding
A (-)	9	Excellent
B	8	Very good
B (-)	7	Good
C	6	Average
C (-)	5	Below average
D	4	Marginal
E	2	Poor
F	0	Very poor
I	-	Incomplete
NP	-	Audit pass
NF	-	Audit fail
W	-	Withdrawal
X	-	Project/Ph.D. Continuation
S	-	Satisfactory completion
Z	-	Course continuation
U	-	Unsatisfactory progress in Ph.D.

Grade

Table 3 . Grades and their description.

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GPA

GPA

Earned Credits (EC)

- The sum of credits for courses in which a student has been awarded pass grades
- If you complete MTL100 (3-1-0), COL100 (3-0-2), ELL100 (3-0-2), PYL100 (3-0-0), PYP100 (0-0-4)
 - Then your EC = $4 + 4 + 4 + 3 + 2 = 17$

GPA

Semester Grade Point Average (SGPA)

- Points secured in a semester =

$$\sum (\text{Course credits} \times \text{Grade point for all courses in which pass grade has been obtained})$$

- SGPA =

Points secured in the semester

Credits registered in the semester, excluding audit and S/Z grade courses

GPA

Cumulative Grade Point Average (CGPA)

- CGPA =

Cumulative points secured in courses with pass grades

Cumulative earned credits, excluding audit and S/Z grade courses

- **CGPA >= 7 for holding a PoR!**
- *An illustration to calculate SGPA/CGPA is given in Courses of Study*

How to get Degree??

How to get Degree??

B.Tech. Programme

Course Category	Credits
Institute Core Courses	
Basic Sciences (BS)	22
Engineering Arts and Science (EAS)	18
Humanities and Social Sciences (HuSS)	15
Programme-linked Courses	12.5
Departmental Courses	
Departmental Core	63.5
Departmental Electives	12
Open Category Courses	10
Total Graded Credit requirement	153
Non Graded Units	15*

How to get Degree??

Dual Programme

Course Category	Credits
Institute Core Courses	
Basic Sciences (BS)	22
Engineering Arts and Science (EAS)	18
Humanities and Social Sciences (HuSS)	15
Programme-linked Courses	12.5
Departmental Courses	
Departmental Core	59.5
Departmental Electives	12
Open Category Courses	10
Total B.Tech. Credit requirement	149
Non Graded Units	15*
M.Tech. Part	
Programme Core Courses	22
Programme Electives Courses	16
Total M.Tech. Requirement	38
Grand Total Credit Requirement	187

Disciplinary Action (DisCo)

- Violation of '*Honour Code*' => serious repercussions
- NOT fun at all — lead to a domino effect of problems
 - Cannot hold PoR
 - Cannot represent IIT Delhi (in events like Inter-IIT)
 - Can be asked to withdraw the semester
 - Companies are informed apriori of the disciplinary action during placements/internships => Chances of selection??
 - The degree will not be 'honoured'

Disciplinary Action (DisCo)

- Violation of '*Honour Code*' => serious repercussions
- NOT fun at all – lead to a domino effect of problems
- To get some more idea, check out an article by BSP at
<https://www.bspiitd.com/post/disco-tales>

More to know...

- Registration Limit
- Minor Degree
- DGPA
- Probation
- Re-major
- ...

Portals

- Username: <kerberos_id>
 - Moodle: <https://moodle.iitd.ac.in>
 - ERP: <https://eacademics.iitd.ac.in>
 - NGU: <https://ngu.iitd.ac.in>

Portals

- Username: <kerberos_id>@iitd.ac.in
 - Teams:
 - Impartus: Login from Moodle (<https://a.impartus.com>)

Useful Links

- Freshers '21 by BSW: bsw.iitd.ac.in/freshers/index.php
- Previous year Question Papers
 - bsw.iitd.ac.in/question_papers.php
 - study.devclub.in
- Softwares: bsw.iitd.ac.in/softwares.php
- Time Table: timetable.iitd.ac.in
- Subscribe to IITD Notices: caic.iitd.ac.in/subscription-page
- Maths Department: maths.iitd.ac.in
- Mathematics Society: mathsoc.iitd.ac.in

Programme Co-ordinators

- MT1 (B.Tech.)
 - Dr. B. S. Panda [[Website](#)]
 - Dr. Ekata Saha [[Website](#)]
- MT6 (Dual)
 - Dr. S. Sivananthan [[Website](#)]

Thank You

Credits:

**Subhalingam D, Khushi Pathak, Deepak
Suthar, Basani Tharuni**

{General Secretary, Deputy General Secretary, Coordinator,
Executive}, Mathematics Society

[mt1180770](mailto:mt1180770@maths.iitd.ac.in), [mt6180783](mailto:mt6180783@maths.iitd.ac.in), [mt1190686](mailto:mt1190686@maths.iitd.ac.in), [mt1200793](mailto:mt1200793@maths.iitd.ac.in)@maths.iitd.ac.in

Questions??

References

- Courses of Study 2021-22, IIT Delhi

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