

# Freshers' Orientation

(B.Tech. & Dual Programme)

# 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

# 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](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**

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Password:

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# IITD Email ID

## Perks

- Free access to several services
  - MATLAB
  - Overleaf
  - Github Pro + ...
  - Office 365
  - ...

# Credit

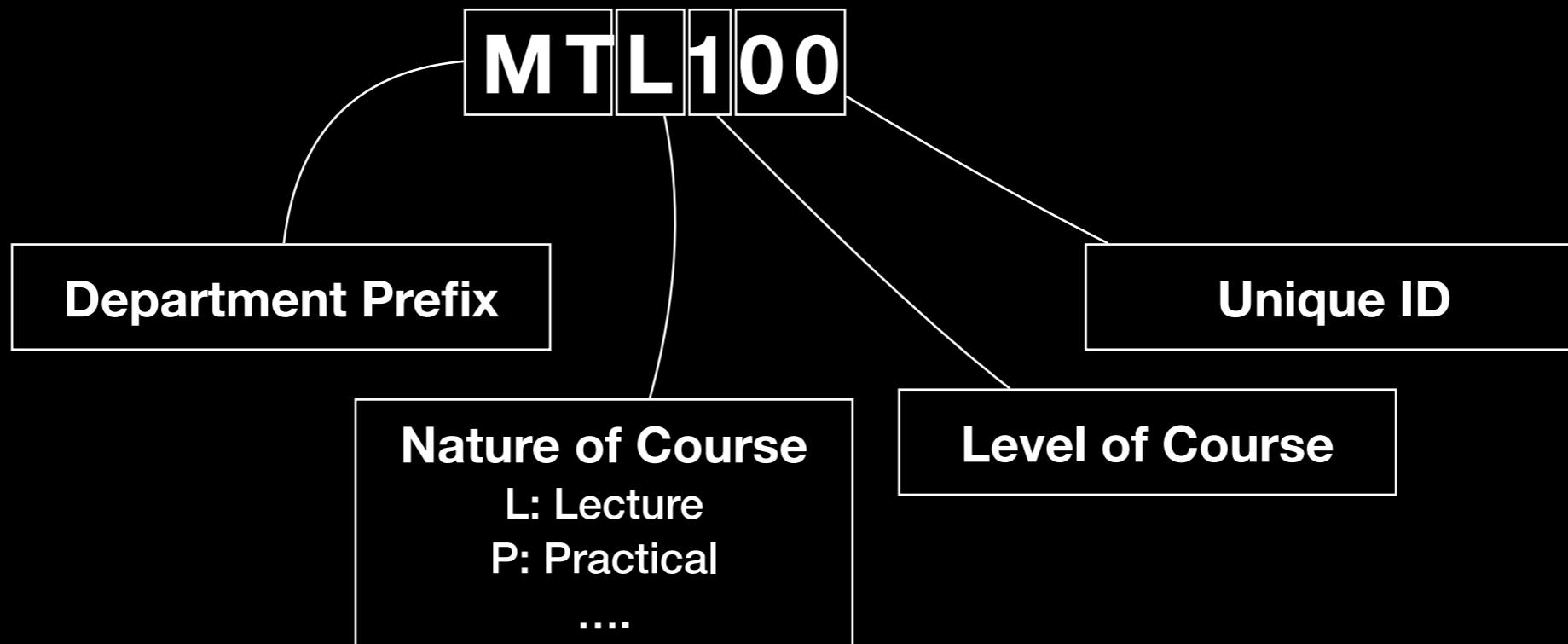
- [L-T-P]: Lecture [L] / Tutorial [T] / Practical [P]
  - One hour of Lecture/Tutorial per week = **1 credit**
  - One hour of Practical (Lab) per week = **0.5 credit**
- eg: MTL100 [3-1-0] is a **4 credit** course
  - *3h Lecture per week:* **3 credits**
  - *1h Tutorial per week:* **1 credit**
  - *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]* is a **4 credit** course
  - *3h Lecture per week:* **3 credits**
  - *0h Tutorial per week:* **0 credit**
  - *2h Practical/Labs per week:* **1 credit** (=  $0.5 \times 2$ )

# 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

|                                      |  |
|--------------------------------------|--|
| <b>Institute Core (IC)</b>           | <ul style="list-style-type: none"><li>- <b>Basic Sciences (BS):</b> Mathematics, Physics, Chemistry and Biology courses</li><li>- <b>Engineering Arts and Science (EAS):</b> Fundamental engineering courses</li><li>- <b>Humanities and Social Sciences (HUSS):</b> 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)</li></ul> |
| <b>Departmental Core (DC)</b>        | Compulsory Courses of the programme as listed in Courses of Study [check MT1/MT6]  |
| <b>Programme linked BS/EAS (PL):</b> | Additional BS/EAS courses that are specified by the department (compulsory)  |
| <b>Departmental Electives (DE):</b>  | 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]  |
| <b>Open Category (OC)</b>            | Courses that can be taken outside or within the discipline<br><i>(these credits can be used towards departmental specialization or minor area also)</i>  |
| <b>Non-graded Core (NG) units:</b>   | 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:**

|                                |   |
|--------------------------------|---|
| <b>Programme Core (PC)</b>     | Core for M.Tech. part of the programme as listed in Courses of Study [check for MT6]                                      |
| <b>Programme Elective (PE)</b> | 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\*

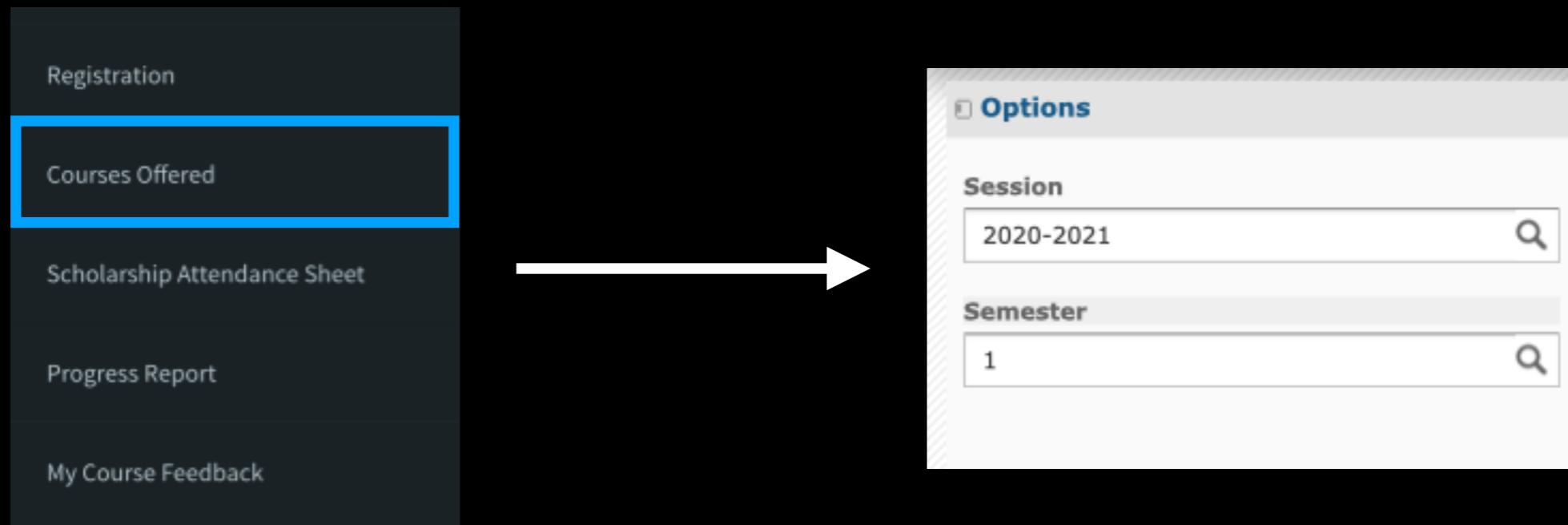
- Request for courses that you are planning to do in the upcoming semester
- Starts after Minor 2 for ~2 weeks *[Check Sem Schedule]*
- Processes via ERP Portal (<https://eacademics.iitd.ac.in>)

\* *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:
  - Up to 1 Core & 2 elective courses can be audited
  - Audit pass at 30%
  - 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  $\geq 100$
- 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](http://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.           | <b>Introduction to Engineering &amp; Programme</b>   | : 02 units      |
| 2.           | <b>Language and Writing Skills</b>                   | : 02 units      |
| 3.           | <b>NCC/NSO/NSS</b>                                   | : 02 units      |
| 4.           | <b>Professional Ethics and Social Responsibility</b> | : 02 units      |
| 5.           | <b>Communication Skills/Seminar</b>                  | : 02 units      |
| 6.           | <b>Design/Practical Experience</b>                   | : 05 units      |
| <b>Total</b> |  | <b>15 units</b> |

# 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.**

| <b>Grade</b> | <b>Grade points</b> | <b>Description</b>               |
|--------------|---------------------|----------------------------------|
| 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. |

# 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??

B.Tech. Programme

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

# How to get Degree??

Dual Programme

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

- Previous year Question Papers
  - [bsw.iitd.ac.in/question\\_papers.php](http://bsw.iitd.ac.in/question_papers.php)
  - [study.devclub.in](http://study.devclub.in)
- Softwares: [bsw.iitd.ac.in/softwares.php](http://bsw.iitd.ac.in/softwares.php)
- Time Table: [timetable.iitd.ac.in](http://timetable.iitd.ac.in)
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- Maths Department: [maths.iitd.ac.in](http://maths.iitd.ac.in)
- Mathematics Society: [mathsoc.iitd.ac.in](http://mathsoc.iitd.ac.in)

# Thank You

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<https://subhalingamd.github.io>

# Questions??

# 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 2020-21 to get the complete overview.

# References

- Courses of Study 2020-21, IIT Delhi