

## **SWAYAM Policy and Guidelines**

Procedures and guidelines for opting for grades to be earned through SWAYAM courses.

1. Basic purpose of allowing SWAYAM course to the students is to facilitate the students. This will not substitute the normal teaching.

2. Swayam courses will be allowed to UG students for the following purposes:

i. For obtaining minor degree

ii. To clear backlogs

iii. To earn extra credits over and above the curriculum requirements

3. SWAYAM courses cannot substitute the core courses of the disciplines. The core courses are the courses which a student is supposed to clear as per the curriculum.

4. A student who has already done a course (or is expected to do in the coming semesters as per the existing curriculum) with more than 25% of the course content (syllabus) overlapping (in the selected SWAYAM course) is not allowed to opt for that course.

However, academically deficient students (CPI less than 5.0) can opt for such courses to complete their backlog courses.

5. Students can do some open electives (within the specified limits, as mentioned below) as per the requirements of curriculum from SWAYAM. However, they are free to earn extra credits over and above the requirements of curriculum from SWAYAM. The limits for number of SWAYAM courses are as follows:

a. Students of ME, SM and ECE discipline can opt for maximum 20% of electives in a semester to be cleared through SWAYAM.

b. Students of CSE and Design discipline where sufficient faculty is not available, students can opt for maximum 40% of elective in a semester to be cleared through SWAYAM.

This will be reviewed time to time based on the availability of the faculty in the discipline.

c. The maximum number of elective courses replacement throughout the program should not exceed 20% (40% for CSE and DS) of the total electives in that program.

That means, if there are total TEN open electives in B. Tech./B. Des. program, you can choose maximum TWO (FOUR for CSE and DS) SWAYAM courses to replace open electives.

d. For the courses over and above minimum requirement of the curriculum, there will

not be any restriction on the type/area of course to be taken on SWAYAM. However, the discipline should decide the level (I Year, II Year, III Year or Final year) of the course to help student(s) choose the course according to his/her level.

6. The mapping of credits for the SWAYAM courses will be:

8 weeks course: 1 Credit

12 week course: 2 Credits

Maximum credits for the SWAYAM courses will be 2 credits. Courses of duration less than 8 weeks will not be considered for award of the credit.

For clearing of the backlog courses, the credits will be mapped to the Institute course credits on recommendation of the discipline. The student may choose more than one SWAYAM courses to fulfil the credit requirement of the replaced backlog course, e.g. a 3 credit open elective course can be replaced by two SWAYAM courses of 2 credits each or one course of 2 credit and another course of 1 credit. Course names will also be mapped and the SWAYAM course(s) will be considered as a “substitute course”. The final decision for substitute course will be taken by the Discipline.

7. Procedure for registering SWAYAM course in the Institute will be as follows:

a. Each discipline would appoint a SWAYAM Discipline coordinator and would notify to the students.

b. The Discipline will decide a list of courses the students can opt and circulate to the students.

c. In case a student wishes to register for a course other than the courses offered by discipline, he will send request to the discipline coordinator giving details of the course including syllabus.

d. The SWAYAM coordinator of the discipline will approve or reject the request within one week and inform the student about the decision.

e. Once SWAYAM courses are decided, the students will register for the courses on the SWAYAM portal and send the registration details to the SWAYAM coordinator of the discipline within a week of the registration on the SWAYAM platform. In case, the student fails to send the registration details to the SWAYAM coordinator of the discipline within a week of registration, he will not be allowed to register at a later

stage.

- f. It will be responsibility of student to submit all evaluation at the SWAYAM portal and get himself/ herself evaluated. The Institute will not take any responsibility for any evaluation missed or any evaluation not conducted by SWAYAM.
- g. A declaration regarding point (e) need to be signed by the student and submitted to the discipline coordinator at the time of registration.
- h. After the course is completed on SWAYAM, the student will submit the marks/ grade to SWAYAM coordinator of the Discipline.
- i. It will be responsibility of the student to submit the final result within one week of result declaration on SWAYAM to the discipline coordinator, failing which the course will be automatically dropped.
- j. The Discipline coordinator will map SWAYAM result submitted by the student to the Institute grade and a consolidate list will be sent to the academic office in the following format:

S. No.	Roll No. of the student	Name of the student	SWAYAM course code	SWAYAM Course name	No. of total hrs/week on SWAYAM course	Mapped Institute Grade

The result received from the discipline will be added to the semester result.

- I. In case the course result(s) is delayed and result of semester is declared, the course will be added to the next semester.

### **Guidelines for Coordinators**

The Swayam coordinators of the discipline are expected to support the students in choosing the correct course from the available options as per the academic guidelines, requirement and interest of the students as per the branch, etc. The coordinators should ensure the following:

1. The course contents are sufficient as per the replaced course.
2. The course contents are not matching more than 25% with the courses already done by him/her or any core course in the his/her upcoming semesters.
3. The course contacts hours will fulfil the credit requirements.

4. After discussion with the student, please ensure that number of total courses by him/her is not exceeding the permissible limit.

### **SWAYAM-NPTEL Course List (July 2025-Dec 2025) - UG-Session 2025-26 (Odd)**

#### **TIMELINE**

##### **Start of Course:**

- 4 Weeks (SET 1): July 21, 2025
- 8 Weeks (SET 1): July 21, 2025
- 12 Weeks: July 21, 2025
- 4 Weeks (SET 2): August 18, 2025
- 8 Weeks (SET 2): August 18, 2025

##### **End of Course:**

- 4 Weeks (SET 1): August 15, 2025
- 8 Weeks (SET 1): September 12, 2025
- 12 Weeks: October 10, 2025
- 4 Weeks (SET 2): September 12, 2025
- 8 Weeks (SET 2): October 10, 2025

##### **Exam Dates:**

- 4 & 8 Week Courses (SET 1 and SET 2):
  - September 20/21, 2025
  - 2 Sessions on each date (9am-12 noon; 2pm-5pm)
- 12 Week Courses:
  - October 25/26, 2025
  - November 01/02, 2025
  - 2 Sessions on each date (9am-12 noon; 2pm-5pm)

##### **Possible additional exam dates**

(These dates cannot be chosen by the candidates and this will be decided by NPTEL as per the availability):

- September 19, 2025 (2 Sessions: 9am-12 noon; 2pm-5pm)
- October 24, 2025
- October 31, 2025 (2 Sessions: 9am-12 noon; 2pm-5pm)

##### **Enrollment and Exam Registration Dates:**

- Open enrollment to the Course: May 15, 2025
- Close enrollment to the Course: July 28, 2025 - 5pm
- For SET 2: August 18, 2025 - 5pm
- Open exam registration form: June 20, 2025 - 10am
- Close exam registration form: August 11, 2025 / August 15, 2025 - 5pm
- For SET 2: August 25, 2025 / August 29, 2025 - 5pm

SWAYAM Course Coordinator/ Mentor for COMPUTER SCIENCE AND ENGINEERING discipline is Dr. Ranjeet K. Ranjan

### **Discipline wise course list for July-Dec 2025 semester**

#### **Discipline: - Computer Science and Engineering**

##### **SEMESTER 3: -**

1. Computer Graphics
2. Foundations of Virtual Reality
3. Linear Algebra Through Geometry
4. Programming in Modern C++

##### **SEMESTER 5: -**

1. Approximation Algorithm
2. Big Data Computing
3. Computational Arithmetic - Geometry for Algebraic Curves
4. Design & Implementation of Human-Computer Interfaces
5. Ethical Hacking
6. Introduction to Industry 4.0 and Industrial Internet of Things
7. Real-Time Systems
8. Software Project Management
9. Software Testing
10. Statistical Learning for Reliability Analysis

##### **SEMESTER 7: -**

1. Privacy and Security in Online Social Media
2. Responsible & Safe AI Systems
3. Parameterized Algorithms
4. Randomized Methods in Complexity
5. C-Based VLSI Design
6. Distributed Optimization and Machine Learning
7. Hardware Modeling using Verilog

8. Multi-Core Computer Architecture
9. Practical Cyber Security for Cyber Security Practitioners
10. Reinforcement Learning
11. Scalable Data Science
12. Stochastic Approximation: Theory and Applications

**Important Guidelines for SWAYAM Courses, Elective Replacements, and Related Academic Processes**

**1. SWAYAM Completed in Previous Semester (Extra Credit)**

- If you have already completed a SWAYAM course in a previous semester and it has been added to your gradesheet as extra credit, you may drop any elective this semester without needing a replacement.

- The extra credit from SWAYAM will balance the dropped elective automatically.

**2. SWAYAM Completed but Results Not Yet Declared**

- 2022 Batch: If you completed a SWAYAM course in Semester 6 but the result has not yet been declared, you cannot drop an elective and claim to replace it with that SWAYAM course.

- 2023 Batch: The same rule applies, but for SWAYAM courses completed in Semester 4.

If the Semester 4 SWAYAM result is declared, you may proceed; otherwise, no replacement is allowed.

**3. SWAYAM Once Added Cannot Be Removed**

- If a SWAYAM course is already added to your gradesheet, it cannot be removed under any circumstances.

**4. Branch Change Cases (Special Permission)**

- If you have changed your branch (e.g., Mechanical → ECE) and missed registering for the SWAYAM course of your new branch due to timing issues:

- Contact the ECE SWAYAM coordinator (SKT Sir) and submit a written application requesting access to alternative SWAYAM courses.

- If approval is not possible, you may request permission to register for SWAYAM courses from your previous branch for this semester only.

- The application must be signed by SKT Sir and submitted to the Academic

Office. (Applicable for 2024 batch.)

#### 5. Add/Drop/Replace Forms Submitted Before Start of Semester

- Any forms filled for add/drop/replace before the semester began will be considered valid.

#### 6. Japanese Language Course

- There are two levels of the Japanese course, and it is compulsory to complete both levels.
- 2022 Batch: Only Level 2 will be available.
- Other batches: Level 1 and Level 2 will be offered.
- Each level counts as one elective with 3 credits.

#### 7. Form Submission Deadlines

- The form deadline will not be extended.
- 2022 Batch: After the initial process, if you wish to change/replace/add/drop a course (even after working with PG students), submit an application to the Academic Office for approval.

#### 8. Improvement or Backlog Courses (Semester 1)

- Students wishing to improve or clear backlogs from Semester 1 may apply to add the course now and join the classes when the 2025 batch starts.

#### 9. Improvements with Timetable Clash

- Example: If a 2024 ECE student wants to improve their Mechanics grade, but the Mechanics class clashes with the ECE timetable:

- You may attend Mechanics classes with another branch (Mechanical, Smart Manufacturing, or CSE) since the course code and curriculum are the same.
- You must write an application to the professor of the branch you wish to join, explaining the timetable clash and your intention to attend their batch.

#### 10. Dropping a Previously Improved Elective and Replacing with SWAYAM

- If you have previously improved an elective, you may drop it and submit its grade to be replaced with a SWAYAM course.
- Note: Once the SWAYAM course is added, it cannot be replaced or removed.

## **11.Course Allotment Method**

- All courses will be allotted randomly.
- There will be no first-come, first-serve basis for allocation.

### **IMPORTANT NOTICE – READ CAREFULLY**

All the above rules, conditions, and processes have already been explained clearly in the official email

and the accompanying video.

You must read the mail fully and watch the entire video carefully before asking questions or filling

out forms. Many doubts are arising only because people are skipping instructions.

Failure to go through the provided material properly may lead to mistakes in course registration, which

will not be corrected later

### **Office of Dean (Students)**

**Dr. Mukesh Kumar Roy**

**Faculty-in-Charge (Student Affairs)**

**Phone No: 0761-2794171**

**Email: dean.s@iiitdmj.ac.in**

Shri. Santosh Mahobia

Deputy Registrar (Students)

Phone No: 0761-2794175

Email: arsa@iiitdmj.ac.in

Shri. Rajesh Kanaujia

Senior Assistant

Phone No: 0761-2794174

Email: krajesh@iiitdmj.ac.in

Ms. Aishwarya Pradhan

Senior Assistant

Phone No: 0761-2794174

Email: aishwarya@iiitdmj.ac.in

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Shri. Amit Kashyap

Office Assistant  
Phone No: 0761-2794174  
Email: kashyapa@iiitdmj.ac.in

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### **Office of Dean (Academic)**

**Prof. Vijay Kumar Gupta**

**Professor In-charge(Academic)**

Dr. Sachin Kumar Jain	Associate Professor In-charge(Academic)
Mr. Pankaj Prajapati	Senior Assistant
Mrs. Priti Patel	Assistant Registrar
Mr. Richard Saberio	Senior Assistant
Mr. Nitin Tripathi	Office Assistant
Ms. Simran Kaur Kalra	Office Assistant
Mr. Shashank Patel	Office Assistant
Mr. Irshad Ahmed	Office Assistant

### **RSPC(Research, Sponsored Projects and Consultancy) Office**

**Contact Details**

+91-761- 279 4152

office.dean.research@iiitdmj.ac.in

**PIC of RSPC**

**Prof. Pritee Khanna**

**Professor In-charge**

Research, Sponsored Projects and Consultancy

Professor of Computer Science & Engineering

+91-761-2794222

dean.research@iiitdmj.ac.in

**Associate PIC of RSPC**

Dr. Dip Prakash Samajdar

Associate Professor In-charge

Research, Sponsored Projects and Consultancy

Assistant Professor of Electronics & Communications Engineering

+91-761-2794474

dip.samajda@iiitdmj.ac.in

**Assistant Registrar of RSPC**

Shri Shailesh Sharma

Assistant Registrar of Research, Sponsored Projects and Consultancy

+91-761-279-4082

ar\_rspc@iiitdmj.ac.in

**Staff of RSPC Office**

Mr. Dev Krishna Jha

Jr. Superintendent

devj@iiitdmj.ac.in

Mr. Prashant Agnihotri

Senior Assistant

prashanta@iiitdmj.ac.in

**Research staff of IIITDMJ**

1. Mr. Aditya Sharma

adityasharma@iiitdmj.ac.in    Technical Officer       Computer Science & Engineering

2. Dr. Dada Saheb Ramteke

dsramteke@iiitdmj.ac.in      Technical Officer      Mechanical Engineering      Condition monitoring, gear fault diagnosis, noise and vibration, signal processing, and machine learning

### **Faculty of C.S.E. (Computer Science and Engineering) discipline**

There are 13 faculty members in CSE department.

Their names are Akshay Pandey, Aparajita Ojha, Ashish Singh Parihar, Atul Gupta, Ayan Seal, Durgesh Singh, Manish Kumar Bajpai, Neelam Dayal, Nitish Andola, Pritee Khanna, Rakesh Kumar Sanodiya, Ranjeet Kumar Ranjan, Shivansh Mishra, Sraban Kumar Mohanty.

1. Akshay Pandey

Assistant Professor

WebGIS, Deep Learning, Agriculture, Unmanned Aerial Systems Engineering, Remote Sensing

2. Aparajita Ojha

Professor

Machine /Deep Learning, Computer Vision

3. Ashish Singh Parihar

Computer Science & Engineering

Assistant Professor

Theoretical Computer Science, Distributed Systems, Wireless Networks, Big DATA

4. Atul Gupta

Professor

Software Engineering, Machine learning,

5. Ayan Seal

Computer Science & Engineering

Assistant Professor

6. Durgesh Singh

Computer Science & Engineering

Assistant Professor

Image Processing, Digital Watermarking, and Machine Learning

7. Manish Kumar Bajpai

Assistant Professor (On Lien)

8. Neelam Dayal  
Assistant Professor  
Computer Networks, Network Security, IoT

9. Nitish Andola  
Assistant Professor  
Cryptography, Cyber Security, Blockchain

10. Pritee Khanna  
Professor  
Biometrics, Image and Semantic Retrieval, Gesture Recognition etc.

11. Rakesh Kumar Sanodiya  
Assistant Professor  
Machine Learning, Deep Learning, Robotics Intelligence, AI/ML Applications

12. Ranjeet Kumar Ranjan  
Assistant Professor  
Data Warehousing, Applied Machine Learning and Deep Learning, Soft Computing.

13. Shivansh Mishra  
Assistant Professor  
Social Network Analysis, Link Prediction, Community Detection, Influence Maximization

14. Sraban Kumar Mohanty  
Assistant Professor  
Data Clustering, Proximity measures

### **Faculty of E.C.E (Electronics and Communication Engineering) discipline**

There are 14 faculty members in ECE department.

Their names are Amit Vishwakarma, Anil Kumar, Dinesh Kumar V, Dip Prakash Samajdar, Koushik Dutta, Matadeen Bansal, P. N. Kondekar, Pankaj Sharma, Prabin Kumar Padhy, Pushpa Raikwal, Sachin Kumar Jain, Sanjeev Narayan Sharma, Satish Kumar Tiwari, Trivesh Kumar.

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1. Amit Vishwakarma  
Electronics & Communications Engineering  
Assistant Professor  
Signal Processing & Image Processing, ML

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2. Anil Kumar  
Electronics & Communications Engineering  
Associate Professor  
Multirate Signal Processing

3. Dinesh Kumar V  
Electronics & Communications Engineering  
Professor  
Electromagnetics, Antennas, Optical Comm

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4. Dip Prakash Samajdar  
Electronics & Communications Engineering  
Assistant Professor  
Solar Cells and VLSI Devices

5. Koushik Dutta  
Electronics & Communications Engineering  
Assistant Professor  
Metal Oxide Based Gas Sensors  
[Profile](#)

6. Matadeen Bansal  
Electronics & Communications Engineering  
Assistant Professor  
Wireless Communication  
[Profile](#)

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7. P. N. Kondekar  
Electronics & Communications Engineering  
Professor  
Electronic Circuit Design, VLSI Design.  
[Profile](#)

8. Pankaj Sharma  
Electronics & Communications Engineering  
Assistant Professor  
Nanoelectronics, Photovoltaics, IoT, VLSI  
[Profile](#)

9. Prabin Kumar Padhy  
Electronics & Communications Engineering

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**Professor**

Automatic Controller Tuning, Identification and Control of Processes

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10. Pushpa Raikwal  
Electronics & Communications Engineering  
Assistant Professor  
Memory Design, VLSI System Design

11. Sachin Kumar Jain  
Electronics & Communications Engineering  
Assistant Professor  
Power & Control

12. Sanjeev Narayan Sharma  
Electronics & Communication Engineering  
Professor  
Signal Processing, Computational Genomics & Proteomics

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13. Satish Kumar Tiwari  
Electronics & Communication Engineering  
Assistant Professor  
6G, Nano Communication, Statistical SP

14. Trivesh Kumar  
Electronics & Communications Engineering  
Assistant Professor  
RF and Microwave Antennas

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### **Faculty of M.E (Mechanical Engineering) discipline**

There are 20 faculty members in ME and SM department.

Avinash Ravi Raja, Amarnath M., Gowthaman S, H. Chelladurai, Himansu Sekhar Nanda, Jitendar Kumar Tiwari, M. Zahid Ansari, Manish Kumar Thakur, Manu Srivastava, Parikshit Kundu, Ponappa K., Prashant K. Jain, Puneet Tandon, Rabindra Prasad, Sachin Kumar, Shivdayal Patel, Sunil Agrawal, Syam Kumar Chokka, Tanuja Sheorey, Tushar Choudhary, Vijay Kumar Gupta.

1. Avinash Ravi Raja  
Mechanical Engineering  
Assistant Professor

Friction stir welding, Barkhausen Noise Analysis, Materials characterization, Metal matrix Composite, Welding Technology

2. Amarnath M.  
Mechanical Engineering  
Assistant Professor  
Condition Monitoring and Fault Detection in Rotat

3. Gowthaman S  
Mechanical Engineering  
Assistant Professor  
Machining, Surface Engineering, Tribology, Corrosion

4. H. Chelladurai  
Mechanical Engineering  
Assistant Professor  
Condition Monitoring, Virtual Instrumentation and Artificial Neural Networks

5. Himansu Sekhar Nanda  
Mechanical Engineering  
Assistant Professor  
Biomaterials and Biomanufacturing

6. Jitendar Kumar Tiwari  
Mechanical Engineering  
DST Inspire Faculty  
Structure property correlation of additively manufactured alloys and composites

7. M. Zahid Ansari  
Mechanical Engineering  
Associate Professor  
MEMS, Smart Materials, Composites

8. Manish Kumar Thakur  
Mechanical Engineering  
Assistant Professor  
Rheology, Tribology, Sensors and Actuators, Intelligent materials, Thermofluids,  
Computational fluid dynamics

9. Manu Srivastava  
Mechanical Engineering  
Assistant Professor  
Additive & Hybrid manufacturing, Robotics

10. Parikshit Kundu  
Mechanical Engineering  
Assistant Professor  
Turbomachinery, Renewable Energy, CFD, Experimental Fluid Mechanics, Turbine Design, Aerodynamics/Hydrodynamics

11. Ponappa.K  
Mechanical Engineering  
Assistant Professor  
Composite Materials, Biomaterials, Machining, Additive Manufacturing

12. Puneet Tandon  
Mechanical Engineering & Design  
Professor  
Advanced Manufacturing & Product Design

13. Rabindra Prasad  
Mechanical Engineering  
Assistant Professor  
Friction Stir Welding/Processing, Discontinuously Reinforced Aluminum Composites, Nanophase Aluminum Alloys/Composites, Casting, Tribolog

14. Sachin Kumar  
Mechanical Engineering  
Assistant Professor  
Composites, Friction stir welding/Processing, Metal additive manufacturing, Microstructure modification, Forming, Smart manufacturing

15. Shivdayal Patel  
Mechanical Engineering  
Assistant Professor  
Impacts, Probabilistic Design, Composite

16. Sunil Agrawal  
Mechanical Engineering  
Associate Professor  
Industrial Engineering

17. Syam Kumar Chokka

Mechanical Engineering

Assistant Professor

Design of Adhesive Bonded Joints, Non Destructive Evaluation, Polymer Composites and Self-healing Composites

18. Tanuja Sheorey

Mechanical Engineering

Professor

Computational Fluid Dynamics, Micro-Fluidic devices

19. Tushar Choudhary

Mechanical Engineering

Assistant Professor

CFD, FEA, Automobile, Thermodynamics, I.C. Engine, Manufacturing

20. Vijay Kumar Gupta

Mechanical Engineering

Professor

Energy Harvesting, Smart Structures, MEMS, Finite Element Analysis, Robotics and Mechatronics, Mechanical Vibrations

### **Step-by-Step Procedure to Calculate SPI/SGPA**

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#### **1. Understand the Grading System**

Each subject/course you take has:

- **Credits** assigned to it (e.g., 3, 4, etc.)
- A **Grade** awarded (e.g., A, B, C, etc.)

Each grade corresponds to a **Grade Point (GP)**. A typical scale might look like:

#### **Grade Grade Point**

A+ 10

A 9

B+ 8

B 7

C 6

D 5

## **Grade Grade Point**

F/Fail 0

(Note: Some colleges may use slightly different scales)

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### **2. Formula for SPI/SGPA**

$SPI = \Sigma(\text{Credit of Course} \times \text{Grade Point}) / \Sigma(\text{Credits of all Courses})$

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### **3. Apply the Formula (Example)**

Assume the following semester courses:

<b>Subject</b>	<b>Credits</b>	<b>Grade</b>	<b>Grade Point</b>
Mathematics	4	A	9
Physics	3	B+	8
CS101	3	A+	10
Chemistry	2	B	7
Workshop	1	A	9

#### **Step-by-step:**

- Multiply each subject's credit by its grade point:
  - Maths:  $4 \times 9 = 36$
  - Physics:  $3 \times 8 = 24$
  - CS101:  $3 \times 10 = 30$
  - Chemistry:  $2 \times 7 = 14$
  - Workshop:  $1 \times 9 = 9$
- Sum of weighted points:  $36 + 24 + 30 + 14 + 9 = 113$
- Total Credits:  $4 + 3 + 3 + 2 + 1 = 13$

**SPI = 113 / 13 = 8.69**

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#### **Tips**

- Only **passed subjects** are included for SPI (some colleges count fails as 0, others exclude them).

- SPI is semester-specific. Your overall performance is given by **CPI/CGPA**, which is the weighted average of all semester SPIs.
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## **CPI/CGPA Formula**

$$\text{CPI or CGPA} = \frac{\sum(\text{SPI}(i) \times \text{Credits}(i))}{\sum(\text{Credits}(i))}$$

Where:

SPI(i) is your SPI for semester i

Credits(i) is the total credits for semester i

The sum runs over all semesters completed so far

### **Step-by-Step Process**

#### **Step 1: Get SPI and Credits for Each Semester**

You need:

- Your **SPI** for each semester
- The **total number of credits** you attempted that semester (usually mentioned on grade sheets)

#### **Step 2: Multiply SPI by Total Credits of that Semester**

This gives the **weighted score** for that semester.

#### **Step 3: Add All Weighted Scores**

$$\sum(\text{SPI}(i) \times \text{Credits}(i))$$

#### **Step 4: Add All Total Credits**

$$\sum(\text{Credits}(i))$$

#### **Step 5: Use the Formula**

$$\text{CPI} = (\text{Total Weighted Score}) / (\text{Total Credits})$$

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### **Example Calculation**

Let's say you have completed 3 semesters:

#### **Semester SPI Credits**

Sem 1    8.2 22

Sem 2    8.7 24

### Semester SPI Credits

Sem 3     9.0 26

**Step 1:** Multiply SPI × Credits

- Sem 1:  $8.2 \times 22 = 180.4$
- Sem 2:  $8.7 \times 24 = 208.8$
- Sem 3:  $9.0 \times 26 = 234.0$

**Step 2:** Add weighted scores →  $180.4 + 208.8 + 234.0 = 623.2$

**Step 3:** Add total credits →  $22 + 24 + 26 = 72$

**Step 4:**

CPI=623.272=8.66

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### Difference Between CPI and CGPA

- In most Indian colleges: **CPI** (Cumulative Performance Index) and **CGPA** (Cumulative GPA) mean the same thing.
- Terminology varies by institute, but the calculation method is the same.

### Counseling Service

Counseling is a talking therapy, a way of exploring what might help a student find his way through his current difficulties. The counseling Service believes that with support, the student is the best person to work out what right for him. We only ‘provide help’ to enable a student to find his own answers and work towards increasing his sense of competency and selfworth.

Many students need the help of the counseling Service to talk about things like:

- (a) Academic Problems.
- (b) Interpersonal Relationship.
- (c) Worry.
- (d) Feeling ‘down’ or ‘depressed.

The counseling Service at IIITDMJ is supported by a strong team of students/Faculty/Counsellor. It is constituted by the following-

1. Head, counseling Service
2. Student Coordinators
3. Assistant Student Coordinators
4. Student Guides
5. Faculty Adviser
6. Professional Counsellor
7. Academic Helpers

The counseling Service provides logistics in improving student's difficulties in various ways from academic to social life. It is an integral part of the Institute that closely works with the faculty members and the administration along with the student community.

Ankita Nemu (20PNPO01) – PG Coordinator

Ayush Saxena (Roll No: 20BCS052) CSE – UG Coordinator

Chandravanshi Shubham Arun (Roll No: 20BCS064) CSE – UG Co-coordinator

#### PG-Students Counseling Committee Members

Name	Roll No.	Batch	Email id.
Ankita Nemu	20PNPO01	PhD	20PNPO01@iiitdmj.ac.in
Divyansh Tiwari	22MECV01	M.Tech	22MECV01@iiitdmj.ac.in
Sukanta Halder	21PNMO03	PhD	21PNMO03@iiitdmj.ac.in
Puspender Adhikari	22MDS011	M.Des	22MDS011@iiitdmj.ac.in
Babban Kumar	21PNPO01	PhD	21PNPO01@iiitdmj.ac.in
Dwitiya Sarkar	21PDEO01	PhD	21PDEO01@iiitdmj.ac.in
Himanshi Shinde	21PDEO03	PhD	21PDEO03@iiitdmj.ac.in
Kotti Akhila Priya	21PNPO02	PhD	akhila.kotti@iiitdmj.ac.in
Anjali Agrawal	20MECC01	PhD	20MECC01@iiitdmj.ac.in
Sakshi Patel	21IDSO03	PhD	21IDSO03@iiitdmj.ac.in
Arundhati Dharia	22MDS001	M.Des	22MDS001@iiitdmj.ac.in
Aakash Patnaik	20PECO01	PhD	20PECO01@iiitdmj.ac.in
Shubham Sharma	1915607	PhD	shub.srma@iiitdmj.ac.in

#### UG-Students Counseling Committee Members

Name	Roll Number	Batch	Email id
Hrithik Ranjan	21bcs102	B.Tech 2021, CSE	21bcs102@iiitdmj.ac.in
Md.Aiyub Hussain	21bec069	B.Tech 2021, ECE	21bec069@iiitdmj.ac.in
Vedant Vijaykumar Bande	21bcs238	B.Tech 2021, CSE	21bcs238@iiitdmj.ac.in
varun raj	21bcs236	B.Tech 2021, CSE	21bcs236@iiitdmj.ac.in
Jesvia Susan Varghese	21bcsd01	B.Tech 2021, CSE	21bcsd01@iiitdmj.ac.in
Saumy Aryan	21bcs187	B.Tech 2021, CSE	21bcs187@iiitdmj.ac.in
Himanshu	21bec053	B.Tech 2021, ECE	21bec053@iiitdmj.ac.in
Sparsh Ranjan	21bcs205	B.Tech 2021, CSE	21bcs205@iiitdmj.ac.in
Pallavi Sarkar	21bds029	B.Des 2021, Design	21bds029@iiitdmj.ac.in
Mridul Deep	21bsm037	B. Tech 2021, ME	21bsm037@iiitdmj.ac.in
Gauri Singhal	21bme018	B. Tech 2021, ME	21bme018@iiitdmj.ac.in
Deepanshu Kumar	21bcs072	B. Tech 2021, CSE	21bcs072@iiitdmj.ac.in
Gaurang Bhutani	21bcs085	B. Tech 2021, CSE	21bcs085@iiitdmj.ac.in
Harsh Bansal	21bcs093	B. Tech 2021, CSE	21bcs093@iiitdmj.ac.in
Rameshwar Paryani	21bcs171	B. Tech 2021, CSE	21bcs171@iiitdmj.ac.in
Shreya Varshney	21bds047	B. Des 2021, Design	21bds047@iiitdmj.ac.in

**CERTIFICATES ISSUED BY ACADEMIC OFFICE**

<b>Details of the Service/ Certificate Name</b>	<b>Certificate Fee</b>	<b>Maximum processing time for the office</b>	<b>Dealing Person With Mail ID</b>
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Bonafied Certificate • For Income Tax, • For Scholarship Application • For Educational Loan • For Demand Letter • For Railway Pass • For Identity Proof • For Status of Sem. Fee (Paid/Unpaid)	200/-	3 days	Mr. Irshad Ahmed Ansari (irshad.ahmed@iitdmj.ac.in)
Fee Structure	200/-	3 days	Mr. Irshad Ahmed Ansari (irshad.ahmed@iitdmj.ac.in)
For Fee Receipt	Contact: Accounts Section (0761-2794055 Email: accounts@iitdmj.ac.in)		
Certificate of Medium of Instructions	200/-	3 days	Mr. Irshad Ahmed Ansari (irshad.ahmed@iitdmj.ac.in)
Character Certificate	200/-	3 days	Mr. Shashank (shashank@iitdmj.ac.in)
Migration Certificate	200/-	This will be issued alongwith final marksheets	Mr. Shashank (shashank@iitdmj.ac.in)
Pointer to %age Conversion Certificate	200/-	3 days	Mr. Shashank (shashank@iitdmj.ac.in)
Provisional Degree Certificate (after completion of program)	NA	3 days	Ms. Simran (simran@iitdmj.ac.in)
Course Completion Certificate	200/-	3 days	Ms. Simran (simran@iitdmj.ac.in)
Expected Date of Completion Certificate (only for B.Tech/BDes)	200/-	3 days	Ms. Simran (simran@iitdmj.ac.in)

Thesis Submission Certificate (Only for PhD)	200/-	3 days after receiving of the panel and thesis whichever is later	<a href="mailto:richard@iitdmj.ac.in">richard@iitdmj.ac.in</a>
Rank Certificate (B. Tech)	200/-	3 days	Ms. Simran ( <a href="mailto:simran@iitdmj.ac.in">simran@iitdmj.ac.in</a> )
Transcript (PG)	200/-	3 days	Mr. Shashank ( <a href="mailto:shashank@iitdmj.ac.in">shashank@iitdmj.ac.in</a> )
Transcript (UG)	200/-	3 days	Mr. Shashank ( <a href="mailto:shashank@iitdmj.ac.in">shashank@iitdmj.ac.in</a> )
Withdrawal Application	NA	10 days	Mr. Pankaj Prajapati ( <a href="mailto:pankaj@iitdmj.ac.in">pankaj@iitdmj.ac.in</a> )
Refund of withdrawal if applicable	NA	After Approval of Withdrawal+15 days	Mr. Pankaj Prajapati ( <a href="mailto:pankaj@iitdmj.ac.in">pankaj@iitdmj.ac.in</a> )
Scholarships (Central/State etc)	NA	As per the concerned scheme of Scholarship	Mr. Richard ( <a href="mailto:richard@iitdmj.ac.in">richard@iitdmj.ac.in</a> )
Refund Form for extra amount paid by students	NA	1 Month	Mr. Pankaj Prajapati ( <a href="mailto:pankaj@iitdmj.ac.in">pankaj@iitdmj.ac.in</a> )
Gradesheet	NA	It will be issued immediately after the declaration of result	Mr. Irshad Ahmed Ansari ( <a href="mailto:irshad.ahmed@iitdmj.ac.in">irshad.ahmed@iitdmj.ac.in</a> )
Duplicate Gradesheet	500/-	10 days	Mr. Nitin Tripathi ( <a href="mailto:ntripathi@iitdmj.ac.in">ntripathi@iitdmj.ac.in</a> )
No Backlog Certificate (only for B.Tech/BDes)	200/-	3 Days	Ms. Simran ( <a href="mailto:simran@iitdmj.ac.in">simran@iitdmj.ac.in</a> )
Education/Validation (verification for the Students certificate)	3000/-	3 Days	Mr. Shashank ( <a href="mailto:shashank@iitdmj.ac.in">shashank@iitdmj.ac.in</a> )

Forwarding of Documents for  
Higher Studies

NA

[aracad@iitdmj.ac.in](mailto:aracad@iitdmj.ac.in)

**Important Note: -**

1. Student needs to submit the application form with all supporting documents to concerned dealing person of Academic office.
2. Processing Time will be counted once the Application form & fee has been submitted with all necessary/supporting documents prescribed in application form.
3. Maximum Processing time is given in days i.e. Working Days (excluding Sat/Sun/holidays)

**BANK ACCOUNT DETAILS OF IITDMJ**

**INSTITUTE'S BANK NAME** INDIAN BANK (Erstwhile Allahabad Bank)

**ACCOUNT NUMBER** 50030581281

**ACCOUNT NAME** Fee A/c

**IFSC CODE OF THE BRANCH** IDIB000M694

**MICR CODE** 482019014

**TYPE OF BANK ACCOUNT** CURRENT ACCOUNT

**BRANCH NAME WITH COMPLETE ADDRESS, TELEPHONE NUMBER & EMAIL ID**

Mehgawan, IITDM, CAMPUS BRANCH, JABALPUR

**TEL:** 0761-2794051

**E-Mail:** br.mehgawan@allahabadbank.in

**SEMESTER WISE COURSES**

**COMPUTER SCIENCE AND ENGINEERING**

**1<sup>st</sup> SEMESTER: -**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By Discipline</b>	<b>Instructor</b>	<b>Remarks</b>
NS1001	Mathematics-I (4 Sections)	3-1-0-4	NS	SSL + LKB + NKM + DM	Common for all
NS1002	Engineering Mechanics (4 Sections)	2-1-2-4	NS	ACM + NRJ + NKJ + AKK	Common for all
HS1001	Effective Communications (4 Sections)	1-2-0-2	LA	MA – Batch C, D, E JAMF – Batch A & B	Common for all
IT1001	Introduction to Programming in C (02 Batches)	2-0-3-3	CSE	YTD + Mr. Aditya Sharma-Lab	Only for CSE
IT1002	Introduction to Programming in Python	2-0-3-3	ECE	AV	Only for ECE
IT1002	Introduction to Programming in Python (02 Batches)	2-0-3-3	ME	SKC + RP [Lab: SKC + RP]	Common for ME, SM and DS
ES1002	Fundamentals of Electrical and Electronics Engineering	3-0-2-4	ECE	PKP + PR	Only for CSE
DS1005	Engineering Graphics (02 Batches)	2-0-3-3	ME	MKT + SGM [Lab: MKT + SGM + PSK + ARR]	Common for ECE, ME, SM and DS
CS1001	Introduction to Profession (02 Batches)	1-0-0-1	CSE	VKJ	Common for CSE
EC1001	Introduction to Profession	1-0-0-1	ECE	PNK	Common for ECE
ME1001	Introduction to Profession	1-0-0-1	ME	MZA	Common for ME
SM1001	Introduction to Profession	1-0-0-1	ME	MZA	Common for SM

### **2<sup>nd</sup> SEMESTER**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By Discipline</b>	<b>Offered For</b>	<b>Instructor</b>
NS103b	Mathematics II	3-1-0-4	NS	CSE	BG + LKB
NS103a	Mathematics II	3-1-0-4	NS	ECE, ME, SM	SSL + MKP
NS1004	Physics II	3-1-2-4	NS	All disciplines except Design	YSK + NKJ + NRJ + MKR
HS1002	Indian Culture, Ethics and Human Values	2-2-0-3	LA	All disciplines	MA (A+B), JAMF (C+D+E1+E2)

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By Discipline</b>	<b>Offered For</b>	<b>Instructor</b>
DS1005	Engineering Graphics	2-0-3-3	ME	CSE only	SGM + SKC [Lab: SGM + DSR & SKC + DSR]
ES1002	Fundamentals of Electrical and Electronics Engineering	3-0-2-4	ECE	Other than CSE	PS + KD
ES1002 Lab	Fundamentals of Electrical and Electronics Engineering (Lab)	—	ECE	Other than CSE	PS + KD + AK

### 3<sup>rd</sup> SEMESTER

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By Discipline</b>	<b>Instructor</b>
NS2001	Biology for Engineers	2-0-0-2	LA	—
IT2001	Data Structure in C (02 Batches)	3-0-2-4	CSE	SKM
CS2002	Computer Organization and Architecture (02 Batches)	3-0-0-3	CSE	YTD
CS2003	Database Management Systems (02 Batches)	3-0-2-4	CSE	PK
IT2C01	IT Workshop I	0-0-3-2	CSE	YTD

### Electives for 3<sup>rd</sup> Semester

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By Discipline</b>	<b>Pre-requisites</b>	<b>Instructor</b>	<b>Remarks</b>
OE2C09	Discrete Structures	3-0-0-3	CSE	Not required	AO	Open for all
OE2E01	Introduction to Sensors and Actuators	3-0-0-3	ECE	Not required	KD	Open for all
OE2E03	Fundamentals of Signals and Systems	3-0-0-3	ECE	Not required	AK	Open for all

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By Discipline</b>	<b>Pre-requisites</b>	<b>Instructor</b>	<b>Remarks</b>
OE2M07	Operations Research	3-0-0-3	ME	Not required	SKC	Open for all
OE2M09	Probabilistic Approaches to Machine Learning	3-0-0-3	SM	Not required	SA	Open for all
OE2N12	Numerical Methods for Engineers	3-0-0-3	NS	Not required	MKP	Open for all
OE2N13	Semiconductor Optoelectronic Devices	3-0-0-3	NS	Not required	YSK	Open for all
OE2D14	Science and Culture – A Comparison	3-0-0-3	English / LA	Not required	MA	Open for all

#### **4<sup>th</sup> Semester**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By Discipline</b>	<b>Instructor(s)</b>
CS2009	IoT and Embedded Systems (03 Batches)	3-0-2-4	CSE	MS (02 Batches), RKR (01 Batch)
CS2006	Operating Systems (03 Batches)	4-0-0-4	CSE	RKS (02 Batches), NA (01 Batch)
CS2007	Design & Analysis of Algorithm (03 Batches)	3-0-2-4	CSE	ACP (02 Batches), ShM (01 Batch)
CS2008	Computer Network (03 Batches)	3-1-0-4	CSE	–
IT2C02	NoSQL Database Lab (03 Batches)	0-0-3-2	CSE	AdS (03 Batches)

#### **Electives for 4<sup>th</sup> Semester**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By Discipline</b>	<b>Pre-requisites</b>	<b>Offered For</b>	<b>Instructor</b>
OE2C10	Game Theory	3-0-0-3	CSE	–	All disciplines	AO
OE2E03	Digital System Design	3-0-0-3	ECE	Microprocessor and Interfacing	All disciplines	PR

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By Discipline</b>	<b>Pre-requisites</b>	<b>Offered For</b>	<b>Instructor</b>
OE2E04	Introduction to Deep Learning	3-0-0-3	ECE	—	All disciplines	AV
OE2E05	Random Variables and Random Processes	3-0-0-3	ECE	—	All disciplines	MDB
OE2S09	Management Concept and Technology	3-0-0-3	ME	NA	All disciplines	CD
OE3M11	Biomaterials Science and Engineering	3-0-0-3	ME	NA	All disciplines	KP
OE2N05	Complex Analysis and Linear Algebra	3-0-0-3	NS	—	Other than CSE	NKM
OE2D05	Packaging Design and Branding	3-0-0-3	DS	Design Fundamental 1	All disciplines	VF
OE4L01	Japanese Language Course Level-1	3-0-0-3	LA	—	All disciplines	VF
SW2002	SWAYAM 2	—	—	—	—	—

### SEMESTER 5

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By Discipline</b>	<b>Instructor</b>
HS3004	Ecology & Environment Science	2-0-0-2	LA	—
DS3001	Engineering Design – Including Design and Fabrication Project	1-0-6-4	—	—
CS3009	Network Security & Cryptography (02 Batches)	3-0-0-3	CSE	YTD
CS3010	Software Engineering (02 Batches)	3-0-2-4	CSE	AG
CS3011	Artificial Intelligence (02 Batches)	3-0-0-3	CSE	DS
IT3C01	IT Workshop III	0-0-3-2	CSE	Mr. Aditya Sharma

### Electives for 5<sup>th</sup> Semester

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites</b>	<b>Instructor</b>	<b>Remarks</b>
CS8028	Hardware Security (02 Batches)	3-0-0-3	CSE	CS2002 – Computer Organization and Architecture	VSR	For students who have done prerequisites
OE3E40	Computation Genomic & Proteomic	3-0-0-3	ECE	MATLAB/C++/Python and Biology for Engineers	SNS	For students who have done prerequisites
OE4E50	Detection and Estimation Theory	3-0-0-3	ECE	OE2E02 – Probability and Random Process	ST	For students who have done prerequisites
OE3M26	Computer-Aided Design (CAD)	3-0-0-3	ME	ME2002 / SM2002	MS	For students who have done prerequisites
OE4M23	Business Analytics using R	3-0-0-3	SM	ME2007 / SM2007 / OE2M07	SA	For students who have done prerequisites
OE3N36	Probability and Statistics	3-0-0-3	NS	–	BG	Only for ECE, ME & SM disciplines
OE3D16	Visual Ergonomics	2-0-2-3	DS	DS1002 – Design Fundamentals I and DS1006 – Design Fundamentals II	PM	For students who have done prerequisites

### 6<sup>th</sup> SEMESTER

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By Discipline</b>	<b>Offered For</b>	<b>Instructor</b>
DS3014	Fabrication Project	0-0-8-4	-	For all Discipline	-
HS3004	Ecology and Environment Science	2-0-0-2	LA	-	VF

**OE4 (Choose any one course from below electives)**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites</b>	<b>Offered For</b>	<b>Instructor</b>
CS8012	Compiler Design	3-0-0-3	CSE	Language Theory	For all Discipline	SKM
OE3C42	Data Warehousing and Data Mining	3-0-0-3	CSE	Database System Design	For all Discipline	RKR
OE3E30	Fibre Optics	3-0-0-3	ECE	-	For all Discipline	DKV
EC5011	Advanced Semiconductor Devices	3-0-0-3	ECE	-	For all Discipline	KD
ME8021	Advanced Mechanics of Solids	3-0-0-3	ME	ME2003/SM2003	For all Discipline	SDP
OE3M35	Advanced Welding and Joining	3-0-0-3	ME	ME2002/SM2002	For all Discipline	ARR
OE3D20	Industrial Design	3-0-0-3	DS	-	Only Design	VF
SW3004	SWAYAM 4	-	-	-	-	-

**OE5 (Choose any one course from below electives)**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites / Notes</b>	<b>Offered For</b>	<b>Instructor</b>
CS8009	Image Processing	3-0-0-3	CSE	-	For all Discipline	AP
CS8010	Digital Watermarking	3-0-0-3	CSE	-	For all Discipline	DS
OE3E15	Information Theory and Coding	3-0-0-3	ECE	-	For all Discipline	MDB
OE3E09	IC Fabrication	3-0-0-3	ECE	-	For all Discipline	DSP
OE3M34	Introduction to Non-Destructive Evaluation	3-0-0-3	ME	NA	For all Discipline	SKC
ME8019	Robotics and Intelligent Systems	3-0-0-3	ME	Anti-requisite: OE2M06 - Fundamentals of Robotics	For all Discipline	VKG
OE3M36	Generative AI for Product Innovation	3-0-0-3	ME	NA	For all Discipline	PT
OE3D06	Indian Philosophy and Literature in English	3-0-0-3	English / LA	-	For all Discipline	MA

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites / Notes</b>	<b>Offered For</b>	<b>Instructor</b>
OE3N37	Optimization Techniques	3-0-0-3	NS	-	For all Discipline	DM
OE3D38	Human Computer Interaction	3-0-0-3	DS	<b>NOT for B. Des, for B.Tech students only</b>	Only B. Tech	PM
OE3D21	Communication Design	3-0-0-3	DS	-	Only Design	VF
SW3005	SWAYAM 5	-	-	-	-	-

**OE6 (Choose any one course from below electives)**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites / Notes</b>	<b>Offered For</b>	<b>Instructor</b>
CS8011	Machine Learning	3-0-0-3	CSE	-	For all Discipline	AS
OE2C09	Graph Theory	3-0-0-3	CSE	-	For all Discipline	DS
OE3E35	Speech Processing	3-0-0-3	ECE	-	For all Discipline	AV
OE3M37	Industrial Engineering	3-0-0-3	ME	NA	For all Discipline	RP
ME8014	NC-CNC Machine Tools and Programming	3-0-0-3	ME	NA	For all Discipline	MS
OE4M27	Computer Integrated Manufacturing Systems	3-0-0-3	ME	NA	For all Discipline	SKS
OE3N33	Quantum Mechanics for Engineers	3-0-0-3	NS	-	For all Discipline	ACM
OE3D12	Communication Skills Management	3-0-0-3	English / LA	-	For all Discipline	JAMF
OE4L01	Japanese Language Course Level-1	3-0-0-3	LA	-	For all Discipline	VF
SW3006	SWAYAM 6	-	-	-	-	-

**IT workshop IV**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Offered For</b>	<b>Instructor</b>
IT3C03	Web and Mobile App Development	0-0-3-2	CSE	CSE	AG
IT3E03	IT Workshop IV	0-0-3-2	ECE	ECE	PS
IT3M03	IT Workshop IV	0-0-3-2	ME	ME	PSK
IT3S03	IT Workshop IV	0-0-3-2	ME	SM	PSK

## SEMESTER 7

### **OE07 (Choose any one course from below elective)**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites</b>	<b>Instructor</b>
CS8016	Cloud Computing (02 Batches)	3-0-0-3	CSE	CS2008 - Computer Networks	MS
EC8033	Radio Frequency Integrated Circuits Design	3-0-0-3	ECE	EC3010 - Fundamentals of Electromagnetic Theory	MSP
EC8029	Advanced Digital Filter Design	3-0-0-3	ECE	EC2005 - Digital Signal Processing	AK
OE4M75	Fundamentals of Tribology & Rheology	3-0-0-3	ME	ME2003/SM2003	MKT
MT5003	Advance in Sensors and Actuators	3-0-0-3	MT	ME3010/SM3010	MS
ME5D03	Finite Element Methods for Mechanical Engineering	3-0-0-3	ME	ME2003/SM2003	SDP

### **OE08 (Choose any one course from below elective)**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites</b>	<b>Instructor</b>
CS8031	Cyber Security (02 Batches)	2-0-2-3	CSE	CS2008 – Computer Networks, CS2002 – Computer Organization and Architecture	ND
OE4E25	Advance Antenna Theory Design	3-0-0-3	ECE	EC3010 – Fundamentals of Electromagnetic Theory	TK
EC8030	CMOS Memory Design	3-0-0-3	ECE	EC2008 – Analog Integrated Circuit	KD
OE4M76	Digital Twins in Manufacturing	3-0-0-3	SM	ME3010/SM3010	SKS
ME5D02	Mechanical Vibrations and	3-0-0-3	ME	ME2003/SM2003	AM

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites</b>	<b>Instructor</b>
	Condition Monitoring				
OE4M35	Advanced Manufacturing Processes and Technologies	3-0-0-3	ME	ME2002/SM2002	RP

**OE09 (Choose any one course from below elective)**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites</b>	<b>Instruct or</b>
CS8018	Web Mining	3-0-0-3	CSE	Pre-requisites not required	ACP
CS8013	Mobile and Wireless Networks	3-0-0-3	CSE	Pre-requisites not required	VKJ
EC8004	Pattern Recognition and Machine Learning	3-0-0-3	ECE	Pre-requisites not required	AV
OE4E69	Optical Communication	3-0-0-3	ECE	Pre-requisites not required	DKV
ME8016	Biomaterials Science and Engineering	3-0-0-3	ME	Pre-requisites not required	HSN
OE4M52	Rapid Product Development Technologies	3-0-0-3	ME	Pre-requisites not required	PKJ
OE4N77	Nanotechnology for Engineers	3-0-0-3	NS	Pre-requisites not required	MKR

**OE10 (Choose any one course from below elective)**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites</b>	<b>Instructor</b>	<b>Eligibility</b>
CS8032	Soft Computing	3-0-0-3	CSE	Pre-requisites not required	AS	Open for all
CS8004	Deep Learning and Applications	2-0-2-3	CSE	Pre-requisites not required	AO	Open for all
EC8006	Photovoltaics: Fundamentals and Applications	3-0-0-3	ECE	Pre-requisites not required	DPS	Open for all
OE4M22	Industrial Instrumentation & Metrology	3-0-0-3	ME	Pre-requisites not required	CD	Open for all

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites</b>	<b>Instructor</b>	<b>Eligibility</b>
ME8010	MEMS: Microfabrication and Application	3-0-0-3	ME	Pre-requisites not required	MZA	Open for all
OE4L73	LIFE SKILLS MANAGEMENT	3-1-0-3	English / LA	Pre-requisites not required	JAMF	Open for all

**OE11 (Choose any one course from below elective)**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites</b>	<b>Instructor</b>
CS8007	Social Network Analysis	2-0-2-3	CSE	Pre-requisites not required	ACP
CS8025	Fuzzy Sets, Logic and Applications	3-0-0-3	CSE	Pre-requisites not required	AS
NEW	Wireless Communications	3-0-0-3	ECE	Pre-requisites not required	MDB
EC5N01	Physics of Semiconductor Devices	3-0-0-3	ECE	Pre-requisites not required	PNK
ME5C01	Computer Aided Geometric Design	3-0-0-3	ME	Pre-requisites not required	PKJ
ME8002	Design for Experiments	3-0-0-3	ME	Pre-requisites not required	CD
OE4M74	AI and ML for Engineering	3-0-0-3	SM	Pre-requisites not required	VKG

**SEMESTER 8**

BTP4001 BTP 9

OR

PR4001 Project-based Internship (15 Credits) 15

**OE13 (Choose any one course from below elective)**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites</b>	<b>Offered For</b>	<b>Instructor</b>
CS8027	Distributed Systems	3-0-0-3	CSE	–	For all Discipline	ShM
CS8033	Generative AI	3-0-0-3	CSE	–	For all Discipline	AO + PK

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites</b>	<b>Offered For</b>	<b>Instructor</b>
CS8034	Clustering	2-0-2-3	CSE	—	For all Discipline	SKM
EC8025	Wavelet and Filter Bank	3-0-0-3	ECE	—	For all Discipline	AK
ME8011	Mechanic of Composite Materials and Applications	3-0-0-3	ME	ME2003/SM2003	For all Discipline	SDP
ME8025	Design & Simulation of Tribological Components	3-0-0-3	ME	NA	For all Discipline	MKT
SW4013	SWAYAM13	5	—	—	—	—

**OE14 (Choose any one course from below elective)**

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By</b>	<b>Pre-requisites</b>	<b>Offered For</b>	<b>Instructor</b>
CS8015	Computer Vision with Deep Learning	3-0-0-3	CSE	—	For all Discipline	PK
CS8030	Blockchain Technology and Applications	2-0-2-3	CSE	—	For all Discipline	NA
CS8035	UAV Software Systems and Applications in Computer Science	2-0-2-3	CSE	—	For all Discipline	AP
EC8021	Fundamentals of 5G and beyond 5G Mobile Network	3-0-0-3	ECE	—	For all Discipline	SKT
ME8026	Additive Manufacturing for Medical Applications	3-0-0-3	ME	NA	For all Discipline	PKJ
ME8027	Refrigeration and Air Conditioning	3-0-0-3	ME	ME2004/SM2004	For all Discipline	PSK
SW4014	SWAYAM14	5	—	—	—	—

**ACADEMIC CALENDAR**

<b>Events</b>	<b>Semester I (New UG/PG)</b>	<b>Semester I (Old UG/PG)</b>	<b>Semester II (Even Semester)</b>
Last date for academic Pre-Registration for next Semester	10–12 Jul 2024 (Wed to Fri)	10–12 Jul 2024 (Wed to Fri)	11–13 Dec 2024 (Wed to Fri)
Last date for physically reporting	To be declared based on Institute schedule	14 Jul 2024 (Sun)	05 Jan 2025 (Sun)

<b>Events</b>	<b>Semester I (New UG/PG)</b>	<b>Semester I (Old UG/PG)</b>	<b>Semester II (Even Semester)</b>
Last date for late physical reporting (with late fee)	–	21 Jul 2024 (Sun)	12 Jan 2025 (Sun)
Commencement of Classes	15 Jul 2024 (Mon)	15 Jul 2024 (Mon)	06 Jan 2025 (Mon)
Last date for Dropping/Adding of Courses	26 Jul 2024 (Fri)	26 Jul 2024 (Fri)	17 Jan 2025 (Fri)
Finalization of Courses after Drop/Add	02 Aug 2024 (Fri)	02 Aug 2024 (Fri)	24 Jan 2025 (Fri)
Last Date for Document Submission (New Admissions)	NA	02 Aug 2024 (Fri)	24 Jan 2025 (Fri)
Mid Semester Exams	19–21 Sep 2024 (Thu to Sat)	19–21 Sep 2024 (Thu to Sat)	24–26 Feb 2025 (Mon to Wed)
Last date for showing answer sheets to students	25 Oct 2024 (Fri)	25 Oct 2024 (Fri)	28 Mar 2025 (Fri)
End Semester Recess	25–30 Nov 2024	25–30 Nov 2024	28 Apr–03 May 2025
Commencement of End Semester Exams	02 Dec 2024 (Mon)	02 Dec 2024 (Mon)	05 May 2025 (Mon)
Make-up Exams	06–10 Jan 2025 (Mon to Fri)	06–10 Jan 2025	09–13 Jun 2025 (Mon to Fri)
Final grades freeze by HoD/DoAA	13 Dec 2024 (Fri)	13 Dec 2024	16 May 2025 (Fri)
Submission of moderation report by APCs	16 Dec 2024 (Mon)	16 Dec 2024	19 May 2025 (Mon)
Last date for Re-Registration	20 Dec 2024 (Fri)	20 Dec 2024	23 May 2025 (Fri)
Academic Pre-Registration for next semester	11–13 Dec 2024 (Wed to Fri)	11–13 Dec 2024	14–16 May 2025 (Wed to Fri)
Vacation for UG Students	30 Dec 2024 – 03 Jan 2025	–	12 May – 05 Jul 2025

#### **Design Fabrication / Discipline Optional Project**

<b>Event</b>	<b>Date</b>
Registration	05 Aug 2024 (Mon)
Guide Finalization	19 Aug 2024 (Mon)
Evaluation of Project Report (Mid Sem)	10 Oct 2024 (Thu)
End Term Evaluation	28 Nov 2024 (Thu)

### **PBI (Project Based Internship) Calendar**

<b>Event</b>	<b>Semester I</b>	<b>Semester II</b>
PBI Start	Anytime after 01 Dec 2024	19 May 2025 (Mon)
Interim (Report Submission)	24 Jan 2025 (Fri)	28 Apr 2025 (Mon)
End Term (Final Presentation + Report)	19–21 May 2025 (Mon–Wed)	19–21 May 2025 (Mon–Wed)

### **BTP (B. Tech Project) Calendar**

<b>Event</b>	<b>Semester I</b>	<b>Semester II</b>
BTP Start	01 Aug 2024 (Thu)	19 May 2025 (Mon)
Interim (Report Submission)	31 Oct 2024 (Thu)	28 Apr 2025 (Mon)
End Term (Final Presentation + Report)	19–21 May 2025 (Mon–Wed)	19–21 May 2025 (Mon–Wed)

### **SUMMER TERM**

<b>Event</b>	<b>Date</b>
Registration	12 May 2025 (Monday)
Commencement of Classes	13 May 2025 (Tuesday)
Mid-Sem Exams	27–28 May 2025 (Tue–Wed)
End-Sem Exams	14–16 July 2025 (Mon–Wed)
Last Date of Grade Submission	18 July 2025 (Friday)

### **ADMISSION**

Undergraduate Students are admitted to these courses on the basis of their All India Rank in the [Joint Entrance Examination \(Main\)](#) (JEE MAIN) and the UCEED. The JEE results are used for admitting students into the BTech program for Computer Science Engineering, Electronics and Communications Engineering, Mechanical Engineering and Smart Manufacturing.

UCEED results are used to admit students into the B. Des program.

For admissions to PG level courses, the [GATE](#) scores are considered for MTech programs; and [CEED](#) scores are considered along with the CPI (or Equivalent Grading System, e.g. CGPA) maintained throughout the Graduate course undertaken by the student.

The seat matrix for UG courses are as follows:

### **Seat Matrix UG 2023-24**

<b>Discipline</b>	<b>Total Sanctioned Strength</b>
Computer Science Engineering	275
Electronics and Communication Engineering	140
Mechanical Engineering	73
Smart Manufacturing	70
Bachelor in Design	66
<b>Total</b>	<b>624</b>

#### **RANKING**

Indian Institute of Information Technology, Design and Manufacturing, Jabalpur was ranked 82 among engineering colleges in India by the [National Institutional Ranking Framework](#) (NIRF) in 2022.

The institute was ranked 97 with an overall score of 42.14 for the 2023 edition of [National Institutional Ranking Framework](#) (NIRF), with the following scores:

#### **NIRF 2023 scores**

<b>Metric</b>	<b>Score (out of 100)</b>
TLR	44.65
RPC	30.48
GO	68.44
OI	56.03
Perception	3.06

#### **Academic rankings**

#### **Engineering – India**

[NIRF](#) (2023)

97

[NIRF](#) (2024)

137

## Notable Graduates (Alumni)

1. **Ms. Surbhi Namdeo (BTech 2011-15 ME)** working with ISRO since 2017. She being a part of Thermal Quality Assurance did the thermal analysis of both Rover and Lander to prevent the Single Point Failure. She is presently at ISRO Satellite Center, Bengaluru.
2. **Mr Satyam Jayashawal (2011-15 ME)**,<sup>[24]</sup> working with ISRO since 2021. He is also a part of Thermal Quality Assurance and did the thermal analysis of both Rover and Lander to prevent the Single Point Failure. Interestingly, both Surbhi and Satyam work in the same team.
3. **Mr. Abhishek Patel (2015-19 ME)** working with ISRO since 2021. He is working with the Ground Station Network Team of ISRO Telemetry, Tracking and Command Network (ISTRAC), Bengaluru and taking care of mission maneuvering, i.e., launch vehicle tracking, data acquisition and image processing since the launch of Chandrayaan 3 and mainly after separation from the launch vehicle.

### BASIC INFORMATION ABOUT IIITDMJ

Indian Institute of Information Technology, Design and Manufacturing, Jabalpur (IIITDM Jabalpur), also known as Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design and Manufacturing, is an [Indian Institute of Information Technology in Jabalpur, Madhya Pradesh, India](#) that focuses on Information Technology enabled Design and Manufacturing.

IIITDM Jabalpur was founded in 2005. In 2014, the Parliament declared it to be an [Institute of National Importance](#) under IIIT Act.

### How to reach IIITDM JABALPUR

#### 1. AIRWAYS

Jabalpur Airport (Dumna Airport), located 5km from campus, provide connectivity to major cities, such as Delhi, Mumbai, Hyderabad, and Bangalore.

## **2. RAILWAYS**

Jabalpur Junction (JBP), located 11km from campus, a major railway hub in central India , offering regular train services to various parts of the country. It is a key station on West Central Railway Zone.

## **3. ROADWAYS**

Jabalpur, is well-connected through a network of National Highways

1. Bhopal: 315 km via NH-44
2. Nagpur: 280 km via NH-44
3. Indore: 430 km via NH-47

### **POSTAL ADDRESS OF IIITDM JABALPUR**

Indian Institute of Information Technology Design & Manufacturing Jabalpur

Dumna Airport Road, Dumna – 482005

### **HISTORY OF IIIT JABALPUR**

PDPM IIITDM Jabalpur was the third [Indian Institute of Information Technology](#), established on 24 January 2005 by the [Ministry of Education \(India\)](#) under Madhya Pradesh Society Registration Act 1973.

The foundation stone of the Institute was laid by Late Shri Arjun Singh, the then-Minister of Human Resource Development (MHRD) on 7 February 2005.

On 3 May 2006 a land of 250 acres near Dumna Airport of Jabalpur was identified by the State Government of Madhya Pradesh and was handed over to the Institute. Construction work of Phase I buildings was started in 2007 and was completed in 2009.

The first academic session of PDPM IIITDM Jabalpur started from August 2005 from the campus of [Jabalpur Engineering College](#) until its own permanent campus was ready. The Institute started operating from the temporary location at the IT Bhawan of the Jabalpur Engineering College. Professor Sanjay G. Dhande, Director, IIT Kanpur was given the additional charge as the Director of the Institute.

The institute was allotted 260 acres (1.1 km<sup>2</sup>) acres in close proximity to the [Jabalpur Airport](#) and [Dumna Nature Reserve Park](#), in 2006 following the appointment of Dr. Sanjeev Bhargava as director.

Construction of the (Phase-I buildings) Core-Lab-Complex and Residencial-Hostels started thereafter and was completed in June 2009.

## CAMPUS OF IIIT JABALPUR

The IIITDM Jabalpur campus, having an area of about 260 acres, is located in Dumna, towards East of Jabalpur, between the Dumna Nature reserve and Jabalpur Airport. The campus is divided into clusters of buildings. The academic area consists chiefly of the LHTC and the CLC, which house all the departmental annexes and cabins of faculty. The LHTC also houses the [Design Studio](#).

The Lecture Hall and Tutorial Complex (LHTC) has cabins of faculty from the Natural Sciences (NS) and Liberal Arts (LA) departments. Core Lab Complex (CLC) houses cabins of faculty from ECE dept. and Mech dept. along with a variety of laboratories.

The academic area and residential area is divided by a slope, with the graffiti wall alongside that is redrawn for every iteration of the Techno-Design fest, Abhikalpan.

Due to its proximity to the [Dumna Nature Reserve Park](#), the campus has significant green cover and is blessed with clear skies round the year. The proximity of the campus to the Nature Reserve has also led to occasional sightings of peacocks and leopards

### **Guidelines for Pre-registration (Even Semester, 2024-25):**

1. The pre-registration is mandatory for all students.
2. Pre-registration process is for the selection of courses for the upcoming semester (Even Semester, Session 2024-25).
3. Students are required to select all the core courses and elective courses as well as backlog/improvement/audit courses, if any.
4. Students are allowed to opt maximum of two backlog/improvement/audit courses, however, if the CPI of the student is less than 6.0, then only one backlog/improvement/audit course can be opted/registered.
5. If a student has more than 1 backlog of courses, they may register for them by dropping their equal number of regular courses.
6. Students may replace an elective course with a SWAYAM course subject to a maximum limit as per academic guidelines (maximum of two elective courses in the entire B. Tech.

program and one elective in a semester).

7. If any student wishes to substitute his open elective with a swayam course then he should opt Swayam as his priority-1 for that OE slot and it will be allocated to them. At the add/drop stage he will get the option to register his preferred Swayam course.

8. Check the timetable and exam slots before selecting a backlog/improvement/audit course. Registration is allowed only when there is no clash in the regular timetable and exam slot. The responsibility lies with the student to ensure no clashing, as per the prevailing timetable.

9. Pre-registration for UG students will be done this semester using a software platform, named Fusion. The link and instructions for the same will be shared separately. You are advised to change your password on your first login and do not share it with anyone else (including your classmates, academic section, or any other student/staff member).

10. Students are required to select all the courses and required to fill out the pre-registration form in the fusion. In case you do not receive login credentials on or before Monday, 18th Nov. 2024, for the Fusion, please contact the academic section immediately.

11. Allotment of the open elective courses will be on a purely random basis based on the priorities provided by the students, as per the algorithm (Annexure-I). The same will be displayed in their Fusion dashboard before the commencement of the semester.

12. There are some courses, which have prerequisites, e.g. courses in the OE4 slot. The same is available in the list of the courses shared with you via email dated on 11th Nov. 2024. You can refer to the complete course list here.

13. In case you are allotted a course for which you do not meet the prerequisite criteria, you should inform the academic section within 3 days of course allotment. No request in this regard will be considered later, and the course will be dropped.

14. Students will get a chance to replace their allotted course at the time of course ADD/DROP. After that, no more changes will be made, and the registered courses only will be available in the semester grade sheet.

15. Students will have to pay fee for backlog/improvement course, just after the ADD/DROP, when informed by the academic section.

16. PG students are required to collect course pre-registration forms from the academic office and submit them to the discipline office before the pre-registration deadline.

### **Random Seat allocation algorithm for open elective courses**

Aims for seat allocation algorithm

- Every student should get equal opportunity to get their preferred course irrespective of their registration time
- Maximise the number of students getting their top-priority courses.

Algorithm for course allocation of single course slot: (Repeated for every open elective slot)

- The course allocation process will begin with the course(s) for which the number of registrations is less than the upper limit as a first priority (in ascending order).
- The required number of students will be selected from the list, if it is less than the upper limit in that course. If the number of students who opted for that course as their first priority is more than the upper limit, a randomly desired number of students will be picked up from the list.
- The process will be repeated for all the courses.
- Once all the courses are iterated for that priority order, the above process will be repeated for the next priority orders until all the students are allotted the courses.

The above algorithm is implemented assuming the following

- The total number of seats across all courses of the course slot is greater or equal to the number of students applying in the slot.
- The course slot name is kept the same for all branches.
- The priorities are assigned as per the Prerequisite condition for the course, if any.

Software does not perform checks on it, however, at a later stage if any student is identified with registration in such a course, his course will be dropped.

### **COURSE ADD/DROP**

#### **1. Adding of a course (backlog / improvement):**

- i. A student can add a course towards backlog / improvement only. Adding of course can be done through google form only.

- ii. Students who have CPI more than 6.0 (in the most recently declared result) will be allowed for maximum two backlog/improvement courses registration. Those having CPI less than 6.0 can register in only one backlog course. However, in case you wish to clear more backlogs than this limit, you may drop an equal number of courses from your current semester.
- iii. If you want to register for two backlog/ Improvement courses then clearly mention both the courses as instructed in the form.
- iv. The backlog / improvement course registration will be done at a nominal fee of Rs. 1000/- per course. You will need to pay this fee after confirmation of the course addition by the academic office by 18.08.2025. Students who fail to pay the fee by this date, will not be allowed to appear in the exams. Academic office will share the payment link for the backlog/Improvement students after the confirmation of course allotment.
- v. Kindly note that 75% attendance is mandatory in all courses including backlog/ improvement courses.
- vi. A student can register for backlog/improvement courses only if there is zero clashing in the courses you have registered (both the class timetable and exam slots).
- vii. Students who are registering for backlog/ improvement for core courses are advised to start attending the course classes with immediate effect without waiting for the final decision (zero clashing with TT and Exam TT must be ensured by the student).
- viii. Any wrong, incomplete and/or improper information in the form will lead to rejection of your form and you won't be able to register for the backlog/improvement course.

## **2. Drop of a course**

- i. A course (regular/ backlog/ improvement) can be dropped through Fusion portal only. You are advised to exercise the drop option carefully as a course if dropped once cannot be registered again.
- ii. After dropping a course, kindly check the list of registered courses to ensure the successful drop of the course.

## **3. Replacement of a course**

- i. A course (elective/ SWAYAM) can be replaced through Fusion portal only.
- ii. In case if you want to replace more than 1 course then select all the courses (to be replaced) in a single go and then click on review and submit option then click on final submit (carefully see attached reference video).
- iii. After replacing a course, kindly check the list of courses at "Your request".

- iv. The course will be allotted on a random basis, based on seat availability. In case, there is no vacancy in your requested course, current course allotment will continue.
- v. The course(s) will be allocated based on the upper and lower limit of the number of students in a course.

**Note:**

**Fusion portal and Google Form will accept only one response, hence kindly fill the same very carefully, as there are no edit/ resubmit options available.**

**ELECTRONICS AND ICT ACADEMY (E&ICT Academy:)**

The Ministry of Electronics and Information Technology (MeitY), Government of India has instituted Electronics and ICT Academies in the year 2015. In the second phase, the academy at PDPM IITDM Jabalpur aims at scalable training programmes in niche areas of Electronics and ICT for the development of the required knowledge base, skills and tools to unleash the talent of the Indian population. In addition to the faculty development programmes (FDPs) on fundamental and advanced topics in electronics, information and communication technologies, the Academy conducts customized training programmes for students, corporate sectors and research promotion workshops in emerging areas. The Academy is identified by the MeitY as the central hub of activities on training, internships, research, and consultancy programmes.

**CORE TEAM MEMBERS**

**Prof Aparajita Ojha**

Email: [aojha@iitdmj.ac.in](mailto:aojha@iitdmj.ac.in)

**Prof. Vijay Kumar Gupta**

Email: [vkgupta@iitdmj.ac.in](mailto:vkgupta@iitdmj.ac.in)

**Prof. P.N. Kondekar**

Email: [pnkondekar@iitdmj.ac.in](mailto:pnkondekar@iitdmj.ac.in)

**Dr. Atul Gupta**

Email: [atul@iitdmj.ac.in](mailto:atul@iitdmj.ac.in)

**Dr. Prashant Kumar Jain**

Email: [pkjain@iitdmj.ac.in](mailto:pkjain@iitdmj.ac.in)