

## **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

### **DIRECTOR OF IIITDM JABALPUR :- PROF. BHARTENDU KUMAR SINGH**

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

**Dr. Mukesh Kumar Roy**

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

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Senior Assistant

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### **Timings to contact DSA (Department of Student Affairs) / Academic Office:-**

**Mon-Fri: - 1 p.m. to 2 p.m. and 4:30 p.m. to 5:30 p.m.**

**Sat-Sun: -10 a.m. to 1 p.m.**

### **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**

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**Staff of RSPC Office**

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Mr. Prashant Agnihotri

Senior Assistant

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## **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 14 faculty members in CSE department. It includes 3 Professors 11 Assistant Professor

The names of faculty members/teachers in CSE Department are :-

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. It includes 4 Professors 9 Assistant Professor 1 Associate Professor.

The names of faculty members/teachers in ECE Department are : -

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

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

6. Matadeen Bansal  
Electronics & Communications Engineering  
Assistant Professor  
Wireless Communication

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7. P. N. Kondekar  
Electronics & Communications Engineering  
Professor  
Electronic Circuit Design, VLSI Design.

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

9. Prabin Kumar Padhy  
Electronics & Communications Engineering  
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/teachers in ME and SM(Smart Manufacturing) department.

It includes 3 Professors 15 Assistant Professor 2 Associate Professors and 1 DST Inspire faculty

The names of faculty members/teachers in ME and SM Department are :-

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

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#### **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

F/Fail 0

(Note: Some colleges may use slightly different scales)

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**2. Formula for SPI/SGPA**

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

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

Assume the following semester courses:

**Subject Credits Grade Grade Point**

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:  $36 + 24 + 30 + 14 + 9 = \mathbf{113}$
- Total Credits:  $4 + 3 + 3 + 2 + 1 = \mathbf{13}$

**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

CPI or CGPA =  $\Sigma(\text{SPI}(i) \times \text{Credits}(i)) / \Sigma(\text{Credits}(i))$

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

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

#### Step 4: Add All Total Credits

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

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

CPI = (Total Weighted Score) / (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

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
Puspendu Adhikari	22MDS011	M.Des	22MDS011@iiitdmj.ac.in
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<b>UG-Students Counseling Committee Members</b>			
Name	Roll Number	Batch	Email id
Hrithik Ranjan	21bcs102	B.Tech 2021, CSE	21bcs102@iitdmj.ac.in
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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@iiitdmj.ac.in)
Fee Structure	200/-	3 days	Mr. Irshad Ahmed Ansari (irshad.ahmed@iiitdmj.ac.in)
For Fee Receipt	Contact: Accounts Section (0761-2794055 Email: accounts@iiitdmj.ac.in)		
Certificate of Medium of Instructions	200/-	3 days	Mr. Irshad Ahmed Ansari (irshad.ahmed@iiitdmj.ac.in)
Character Certificate	200/-	3 days	Mr. Shashank (shashank@iiitdmj.ac.in)

Migration Certificate	200/-	This will be issued alongwith final marksheet	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 pannel 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 (simran@iitdmj.ac.in)
Transcript (PG)	200/-	3 days	Mr. Shashank (shashank@iitdmj.ac.in)
Transcript (UG)	200/-	3 days	Mr. Shashank (shashank@iitdmj.ac.in)
Withdrawal Application	NA	10 days	Mr. Pankaj Prajapati (pankaj@iitdmj.ac.in)
Refund of withdrawal if applicable	NA	After Approval of Withdrawal+15 days	Mr. Pankaj Prajapati (pankaj@iitdmj.ac.in)
Scholarships (Central/State etc)	NA	As per the concerned scheme of Scholarship	Mr. Richard (richard@iitdmj.ac.in)
Refund Form for extra amount paid by students	NA	1 Month	Mr. Pankaj Prajapati (pankaj@iitdmj.ac.in)

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	-	<a href="mailto:aracad@iitdmj.ac.in">aracad@iitdmj.ac.in</a>

**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, IIITDM, CAMPUS BRANCH, JABALPUR

**TEL:** 0761-2794051

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

**SEMESTER WISE COURSES**

**COMPUTER SCIENCE AND ENGINEERING**

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

Course Code	Course Name	L-T-P-C	Offered By Discipline	Instructor	Remarks
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)
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
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	–

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By Discipline</b>	<b>Instructor(s)</b>
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
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

<b>Course Code</b>	<b>Course Name</b>	<b>L-T-P-C</b>	<b>Offered By Discipline</b>	<b>Instructor</b>
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

<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>
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
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

<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>
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 Condition Monitoring	3-0-0-3	ME	ME2003/SM2003	AM
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 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
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**

OR

PR4001 Project-based Internship (15 Credits) 15

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

Course Code	Course Name	L-T-P-C	Offered By	Pre-requisites	Offered For	Instructor
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
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)**

Course Code	Course Name	L-T-P-C	Offered By	Pre-requisites	Offered For	Instructor
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)
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)

<b>Event</b>	<b>Date</b>
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>

#### **Fee Structure**

<b>S.No.</b>	<b>Head</b>	<b>Gen/OBC/EWS</b>	<b>PWD</b>	<b>SC/ST (Income &gt; 2 Lakh)</b>	<b>SC/ST (Income &lt; 2 Lakh)</b>
1	Admission	2000	2000	2000	2000
2	Grade Card	2000	2000	2000	2000
3	Provisional Certificate	500	500	500	500
4	Alumni Association Subscription	1500	1500	1500	1500
5	I Card	500	500	500	500
6	Career Development Fund	2000	2000	2000	2000
7	Student's Welfare	2000	2000	2000	2000
8	Caution Money (Refundable)	3000	3000	3000	3000
<b>Total One Time Fees (A)</b>		<b>13,500</b>	<b>13,500</b>	<b>13,500</b>	<b>13,500</b>

S.No.	Head	Gen/OBC/EWS	PWD	SC/ST (Income > 2 Lakh)	SC/ST (Income < 2 Lakh)
S.No.	Head	Gen/OBC/EWS	PWD	SC/ST (Income > 2 Lakh)	SC/ST (Income < 2 Lakh)
1	Gymkhana Fee	₹2000	₹2000	₹2000	₹2000
2	Examination Fee	₹1500	₹1500	₹1500	₹1500
3	Registration Fee	₹1500	₹1500	₹1500	₹1500
4	Medical Insurance + PHC	₹1500	₹1500	₹1500	₹1500
5	Internet and Computer Charge	₹1000	₹1000	₹1000	₹1000
<b>Total Semester Fees (B)</b>		<b>₹7500</b>	<b>₹7500</b>	<b>₹7500</b>	<b>₹7500</b>

S.No.	Head	Gen/OBC/EWS	PWD	SC/ST (Income > 2 Lakh)	SC/ST (Income < 2 Lakh)
1	Tuition Fee	₹71,750	NIL	NIL	NIL
2	Hostel Fees#	₹11,000	₹11,000	₹11,000	₹5,500
	<b>Total (C)</b>	<b>₹82,750</b>	<b>₹11,000</b>	<b>₹11,000</b>	<b>₹5,500</b>

S.No.	Category	Sem-I	Sem-II	Sem-III	Sem-IV	Sem-V	Sem-VI	Sem-VII	Sem-VIII
1	GEN/OBC/EWS	₹1,03,750	₹90,250	₹90,250	₹90,250	₹90,250	₹90,250	₹90,250	₹90,250
2	PWD		₹32,000	₹18,500	₹18,500	₹18,500	₹18,500	₹18,500	₹18,500
3	SC/ST (Income > ₹2 Lakh)			₹32,000	₹18,500	₹18,500	₹18,500	₹18,500	₹18,500
4	SC/ST (Income < ₹2 Lakh)				₹26,500	₹13,000	₹13,000	₹13,000	₹13,000

**Total fees per semester=Rs. 1,05,750**

#### **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

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

<u>Academic rankings</u>	
Engineering – India	
<a href="#">NIRF (2022)</a>	82
<a href="#">NIRF (2023)</a>	97
<a href="#">NIRF (2024)</a>	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

Post Office:- Khamaria

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 Residential-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.**

## **5. Cancellation of semester registration**

5.1 Absence for a period of four or more weeks at a stretch or in total during a semester shall result in automatic cancellation of the registration of a student from all the courses in that semester.

5.2 Absence for a period of three or more weeks at a stretch or in total during a summer term shall result in automatic cancellation of the registration of a student from all the courses in that summer term.

## **Examinations**

7.1 Conditions under which students shall be admitted to the degree/ diploma

i) All students enrolled in the undergraduate / master's programmes are admitted to the

candidacy for the Bachelor's / Master's degree.

ii) A student enrolled in the Doctoral programme is formally admitted to the candidacy for the Doctoral degree after he/she has completed:

i) the minimum credit requirements of the Course work with minimum CPI of 7.0.

AND

ii) has successfully completed the comprehensive examination.

## **Conditions for examinations**

7.2.1 The student may be allowed to appear in the examination if:

i) She/ he has formally registered in the course/ project/ lab/ thesis

ii) She/ he fulfills the minimum requirement of the attendance, residence, and any other relevant requirement(s)

7.2.2 The evaluation of the UG and PG students in a course except EMF will be a continuous process and shall be based on their performance in end semester written examination, one mid semester written examination and a minimum of two assessments in the form of quizzes/ short test/ assignments/ seminars/ course projects.

7.2.3 Large deviation from recommended mode of evaluation as mentioned in section 2

above, needs prior approval from the Dean Academic.

7.2.4 Makeup for any absence from mid semester/ test/ quizzes will be at the discretion of

the Instructor. Instructor needs to be convinced that the reasons for absence are genuine.

7.2.5 If a student, for some bonafide reasons such as illness, at home etc. fails to appear in

the end-semester examination in one or more course(s), she/he may make a request on a prescribed form, personally or through someone to the Dean Academic through instructor-in-charge for make-up examination within two days of the date of the scheduled examination. Such a request must be substantiated by justified reasons and

proper document (e.g. a certificate from the Institute's Medical Officer for failure to appear in the examination due to illness). The decision of Dean Academic will be final in this regard. The makeup examination will be conducted as per Academic Calendar.

7.2.6 The schedule for the mid-semester examination, end-semester examination and

make-up examination (if any) is prepared and announced by Academic office in accordance with Academic Calendar.

7.2.7 If a Doctoral Student registers for more than 8 thesis credits in a semester prior to

Comprehensive examination, she/he has to register for research seminar in that semester. Research seminar will be evaluated by the RPC (Research Progress Committee) of the scholar and the scholar will be awarded 'S' or 'X' grade based on her/ his satisfactory or unsatisfactory performance respectively. Academic programme of a research scholar will be dropped in case she/he accumulates three or

more X's towards research seminars.

7.2.8 After completion of course work, a doctoral student need to give a comprehensive

examination.

## **Academic leaves**

### **9.1 Short Leave**

Applications for any kind of short leave should be addressed to the Head of the respective discipline for approval. Leave usually must not be availed without prior approval of the Head of the respective discipline. In addition, if a student is going out

of campus on leave, she/he must inform the Hostel/concerned authorities. Following leaves are allowed to student

**Causal Leave:** A student can avail maximum of 7 days causal leave in a semester on valid reason

**Medical Leave:** A student can avail maximum 15 days leave on medical ground in a semester. Permission to grant leave on medical grounds exceeding 15 days in a semester is to be submitted to the Dean, Academic through Head of the respective discipline.

**Vacational Leave:** Maximum 15 day in a semester are allowed to PG students during mid-semester recess or Institute vacations. The vocational leave shall be carried over to the next semester if not availed and the entire duration of vacation leave shall not exceed 30 days at a time in any case

### **9.2 Temporary Withdrawal / Semester Leave**

A student is not normally allowed to withdraw from the academic programme temporarily and is expected to complete her/his studies without any break.

However, for bona fide reasons and/or in exceptional circumstances, a student may be allowed to withdraw temporarily on leave of absence or semester leave at the discretion of Dean (Academic) on the recommendation of Head Discipline for an extended period. Such leave of absence(s) shall ordinarily not exceed two semesters with or without break during the entire period of the academic programme. Except for medical reasons, the Semester Leave shall not be granted unless the student has completed at least 2 semesters in the programme.

A student who remains on authorized leave of absence due to ill health is required to submit a certificate from a Registered Medical Practitioner (verified by Institute's Medical Officer) to the effect that she/he is sufficiently cured and is fit to resume her/his studies.

### **9.3 Duty Leave**

A student shall be permitted to proceed outside the Institute on Duty Leave for maximum of 15 days in a year to carry out field work, library work, experimental work, laboratory work and for other research/academic work permitted by the Dean academic on the recommendation of Supervisor and Discipline Head. In exceptional

cases if the period of Duty Leave is required to exceed 15 days, permission would require a prior approval from the Chairperson Senate. Duty leave cannot be combined with vacation leave.

#### **9.4 Maternity/Paternity Leave**

A married student may avail Maternity/paternity Leave as per policy laid down by the government of India time to time. If supported by a proper medical certificate, leave up to 6 weeks may also be granted to married female student against miscarriage including medical termination of pregnancy. An absence against maternity/paternity leave beyond the permissible period shall normally entail financial loss.

#### **9.5 Leave to Proceed to other Institutions**

In order to encourage a student to broaden her/her horizon and gain course/work experience, she/he may be permitted to proceed to other academic institutions in India

or abroad as a non-degree student.

9.5.1 An student who has (a) completed first four semesters (UG)/two semester (PG) of course work, (b) obtained a CPI  $\geq 8.0$  and (c) accumulated no backlog of courses may be allowed to spend up to two semesters and/or two summer terms in any academic institution of repute in India or abroad with prior permission of the Senate.

9.5.2 Such a student shall make an application to the Dean (Academic) through Head

Discipline giving details of the proposed programme and shall submit a statement of purpose with sufficient information about the institution where she/he has chosen to spend time as a non-degree student along with possible credit transfer. Dean (Academic) shall take recommendations of APCS for credit transfer. Dean (Academic) will place the application to the Senate for approval.

9.5.3 Against each course or requirement for which a waiver is granted, the letter 'W' would appear on the Grade Report and all such courses will be deemed to carry zero credits for SPI/CPI calculations.

9.5.4 Those students who are selected by the Institute, using prescribed rules and procedures, to proceed on any Institutional Exchange Programme will also be governed by above mentioned criteria.

### **8. Change of Branch/ Discipline for B.Tech. Programme**

- i) A student may be allowed change of branch/ discipline on the basis of her/his academic performance, subject to strength constraints of the disciplines. Change of branch/ discipline is a privilege and not a right and is awarded normally to meritorious students only. Reservation policy will be applicable as per GOI rules for vacant seats.
- ii) Application for the change of branch/ discipline should be made at the end of second semester of BTech programme to the Dean Academic.
- iii) Change of Branch/ discipline will be done against the vacant seats and will be based purely on merit basis (CPI of the student towards the end of the second semester).
- iv) The strength of the students in a discipline shall not exceed the larger of its existing and sanctioned strengths or fall below 60% of its sanctioned strength as a result of branch/ discipline change.
- v) Final approval for Change of Discipline will be given by Dean (Academic).
- vi) Top 5 students of the entire B.Tech. batch shall be eligible to change their branch of their choice above the sanctioned strength

#### **Grades and performance indices**

7.11.1 For the purpose of indicating the relative performance of a Bachelor's and Master's student in a given course, the Instructor shall award letter grades. These letter grades, along with their correspondence points on 10 points-scale are given below:

<b>Grade</b>	<b>Grade Point</b>
O	10.0
A+	10.0
A	9.0
B+	8.0
B	7.0
C+	6.0
C	5.0
D+	4.0
D	3.0
F	2.0

However, for Doctoral students in a given credit course, the Instructor shall award the following letter grades:

A = 10, B = 8.0, C = 6.0, D = 4.0, F = 2

where the letter grade F indicates that the student has failed in a given course and

he has to repeat the course. If performance of some of the students in a course is exceptionally good, they will be awarded letter grade 'O'. The letter grade 'O' shall carry 10 points. Letter grade 'O' can be awarded to maximum 2% students out of total students registered in that course.

7.11.2 If, due to genuine reasons, a student does not complete all the requirements of a credit course within the specified time period, the Instructor may award I grade (incomplete). However, the instructor shall be required to convert an I grade to the proper letter grade on or before the last date for such a conversion, as specified in the Academic Calendar, failing which it shall automatically be converted to F grade.

7.11.3 The grade S implies satisfactory performance and the grade X implies unsatisfactory performance. Both S and X grades have no correspondence points. Similarly, grade W implies waiver in a given course.

7.11.4 The course mentioned as Thesis and Teaching Work is not awarded any letter grade but is given as satisfactory (S) or unsatisfactory (X).

7.11.5 At the end of each semester, thesis supervisor(s) of a student registered with him/her/them shall assess the progress made towards the thesis work and shall award either S (satisfactory) or X (unsatisfactory) for every 4 credits of thesis registered for. A student registered for 16 credits of thesis in a semester can get one of the following five combinations: SSSS, SSSX, SSXX, SXXX, XXXX.

7.11.6 In case a PG student is allowed to visit premier Institutes of India and abroad for their research work, the grades submitted by their external mentors through internal supervisor may be considered as thesis grades in the running semester in which student was under supervision of external mentor.

7.11.7 At the end of each semester, faculty member(s) with whom a student is associated as Teaching Assistant shall assess his/her performance towards the teaching work and shall award either S (satisfactory) or X (unsatisfactory) grade. A student associated with "n" number of courses as Teaching Assistant in the entire tenure of his/her programme should secure a minimum of  $0.75n$  S grades (i.e. 75% of the grades secured for teaching work should at least be S) in his/her entire programme to earn 2 credits of teaching work in order to fulfil minimum requirement for his/her degree.

7.11.8 If a student is on leave for a part of the semester OR submits his/her thesis in the middle of a semester, his/her thesis credits shall be reduced appropriately in a proportionate manner.

## **Inadequate Academic Performance**

### **Undergraduate:**

Inadequate academic performance shall be as per the extend rules of the Institute as approved by the Senate. The academic performance of each undergraduate student of a regular semester (not summer semester) is considered inadequate if her/his SPI  $\leq$  4.5 or CPI  $\leq$  5.0. Such a student is termed academically deficient. Depending on the degree of inadequacy, a deficient student may be placed on Warning or Academic Improvement, Academic Break or Academic Drop. For academically deficient students, SPI/CPI will be calculated till 1 decimal point.

7.12.1 Warning A student is placed on Warning if her/his SPI and CPI at the end of a regular semester are as follows: i)  $*0.0 < \text{SPI} \leq 4.5$  and  $\text{CPI} \geq 5.0$  OR ii)  $\text{SPI} \geq 4.5$  with  $\text{CPI} < 5.0$  and in the previous regular semester  $\text{CPI} \geq 5.0$  \*For first year, first semester student only SPI will be considered. Such a student is issued a letter of warning with a copy to her/his parents/ guardian

## **Academic Improvement**

A student is put on academic improvement if her/his SPI and/or CPI at the end of a regular semester are/is as follows:

- i) SPI  $< 4.5$  and CPI  $< 5.0$  OR
- ii) SPI  $< 3.0$  OR
- iii) CPI  $< 5.0$  in two consecutive regular semesters

Such a student is required to sign an undertaking incorporating the following terms and conditions:

- i) Her/ his academic load shall be reduced by at least one course (at least 4 credit),
- ii) She/ he shall register for all courses (if available) in which the letter grade F is obtained,
- iii) She/ he shall, in addition, repeat those courses (if available) in which the letter grade D / D+ secured if she/ he accumulates two or more F grades.
- iv) She/ he shall pass at least three courses,
- v) She/ he shall obtain a minimum SPI of 4.5.
- vi) She/ he shall not hold any elected or nominated position/ office in the Hall of Residence, Students Gymkhana or any other organization/body during academic deficiency.

- vii) Any other terms/ conditions laid down by the Senate.
- viii) Institute has the right to terminate her/ his term failing any of the above conditions.
- ix) The parents/guardians are required to countersign the undertaking

### **Academic Break and Academic Drop**

If the academic performance of a student under “academic improvement” in a semester does not improve (either has not passed at least three courses or has not secured a minimum SPI of 4.5) at the end of the semester, the student will have the following two options and will be allowed to choose only one in consultation with his parents/ guardian:

i) **Academic Drop**

The student drops his programme and leaves the Institute with immediate effect without getting any degree.

ii) **Academic Break**

The student will be put on academic break for one year (including one summer term) and will be allowed to improve his performance in courses in which he scored a grade less than C (i.e. D+ or D or F). It is expected that student will improve his academic performance to get a CPI of 5.0 at the end of academic break.

Registration for a student on academic break will be done as per following guidelines:

- i) A student can register for maximum of four courses in a semester during the period of academic break.
- ii) A student is required to first register for backlog courses offered in that semester.
- iii) In case she/ he is having less than 4 backlog courses, she/he can opt for maximum two forward courses (courses of higher semester).
- iv) Application of a student to register in a forward course will be duly recommended and forwarded by DUGC for approval of the Dean (Academic).
- v) A student may be permitted to register only for PBI if she/he has cleared all courses up to six semesters but is still on academic break.

A student will be out of academic break

i) if she/he is able to score “CPI of 5.0 or more” at any assessment during the academic break or at the end of a year. In such a case, she/he will be allowed to continue her/his programme as a regular student. However she/he has to first clear all backlogs.

**OR**

ii) if she/he is able to show significant improvement in academic performance.

That is “SPI of 6.0 or above” and “not having more than 2 backlogs”, at the end of each assessment. Such students will be placed on Academic Improvement.

However she/he has to first clear all backlogs.

Academic programme of a student will be dropped at the end of academic break with immediate effect, in case she/he does not satisfy requirements. This will be termed as “Academic Drop”. The student leaves the Institute with immediate effect without getting any degree. Maximum duration for programme will be 6 years including academic break.

**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 IIITDM 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.

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#### ACHIEVEMENTS OF STUDENTS

##### Competitive Programming & Coding Achievements

###### 1. ICPC Qualifiers 2024

- Rank: 3
- 6 students selected
- Kanpur Site Rank: 45
- Amritapuri Site Rank: 43
- Prelims Rank: 31

###### 2. Candidate Masters on Codeforces

- Among Top 200 people to achieve this title

###### 3. Google Summer of Code (GSoC) 2024

- 9 mentees and 3 mentors selected

4. Google STEP Intern 2024
    - 3 students selected
  5. Flipkart Runway 2024
    - 2 students selected
  6. LinkedIn CoachIn 2024
    - 1 student selected
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#### Hackathons & Coding Competitions

7. Smart India Hackathon 2024
  - 1 team declared winner (Hardware Track)
8. HackCBS 7.0, 2024
  - 3 wins
  - 1st prize overall
  - 1st and 3rd prize in two different tracks
9. Hack This Fall 2024
  - **1st position** under Best Product Addressing a Local Problem
10. **Code for GovTech 2024**
  - **8 students selected**
11. **Tech Japan Inc 2024**
  - **2 winners** of the Hackathon
  - More than **2 internship offers**
12. **Prometeo 2024, IIT Jodhpur**
  - **1st Prize in AI BioInnovate Challenge**
13. Autodesk Design Challenge (IIT Kanpur)
  - 1st position secured
14. Crypto Movement 1.0 (IIM Trichy)
  - 1st prize bagged
15. Tech Per Trading Event (MNIT Jaipur)
  - 3rd position

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## **Robotics & Engineering Events**

16. IIT Bombay E-Yantra 2024

- 1 team selected (Ongoing Robotics Competition)

17. E-Yantra, IIT Bombay (*duplicate mention for clarity*)

- **1 team** selected for **Robotics Competition (Ongoing)**

18. Drone Development Challenge 2024

- AIR 2
- Best Aerodynamic (CFD) Analysis

19. Aerothon 2024

- **INI Rank 1 (Phase 1)**
- **Best Autonomous UAV**

20. SAEINDIA SUPRA 2024, Noida

- 21st overall position
  - 3rd among INIs
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## **Finance, ML & Data Science Events**

21. Techkriti 2024, IIT Kanpur

- **3rd prize in Capture the Flag, Re-dev**
- **1st prize in Beat the Market 2024**
- **2nd and 4th prize in Beat the Market 2023**

22. Cognizance 2024, IIT Roorkee

- **1st position in Therma Oracle ML**
- **5th position in ICC**

23. Cognizance, IIT Roorkee (*extended mention*)

- **1st Position in ML Competition**
- **2nd Rank in Sky Maneuver**

24. Analytica 4.0

- **1st position achieved**

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## **Cultural & Miscellaneous Achievements**

### **25. Alcheringa 2024, IIT Guwahati**

- **Runners Up in Nukkad Natak Competition**

### **26. Women Engineers Program**

- **4 students selected**

### **27. Ordnance Innovation Symposium (OIS) 2024**

- Participated, hosted by **MCMM, Jabalpur**

### **28. Speaker at LFX Summit, Vienna**

### **29. The Linux Foundation 2023**

- **3 students selected**

### **30. Summer of Bitcoin 2024**

- **4 students selected**

## **1. GOALS OF AWARDING SCHOLARSHIPS, PRIZES AND MEDALS TO STUDENTS**

1.1 In order to financially assist (a) meritorious students coming from weaker economic background, (b) girl students and (c) Scheduled Castes (SC), Scheduled Tribes (ST) and Other Backward Caste (OBC) students, the Institute may award

- (i) Scholarships,
- (ii) Tuition Waivers (Freeships),
- (iii) Book and other Grants,
- (iv) Pocket Allowance,
- (v) Free Basic Messing Facility

and any other facilities from its own funds as per government policies and guidelines applicable at the time of the award.

1.2 In order to promote an outstanding or excellent academic performance, excellence in a given course of the program, excellence in research, social service, games and sports, cultural activities, participation in students counseling, participation and constructive leadership in gymkhana involving all round overall performance, the Institute may award

various scholarships, prizes, medals and awards either from its own funds or from funds obtained from other governmental or non-governmental sources.

1.3 In order to promote the study at the postgraduate level, the Institute may award various scholarships/assistantships to its students either from its own funds or from funds obtained from other governmental or non-governmental sources.

1.4 In order to promote research and development in a specified field, the Institute may award

various scholarships, prizes and medals to its undergraduate as well as postgraduate students either from its own funds or from funds obtained from other governmental or non-governmental sources.

## **2. INDICES FOR MERIT, MEANS, OUTSTANDING ACADEMIC PERFORMANCE AND ALL ROUND PERFORMANCE**

### **2.1 Merit**

2.1.1 The academic performance of a student in terms of his/her Cumulative Performance Index (CPI), shall be the basis, fully or partly as the case may be, for evaluating the merit of a student for the consideration of an award of scholarship/prize/medal to him/her.

2.1.2 Merit of a student shall normally be evaluated in terms of the reporting CPI, i.e., the CPI rounded-off to the first place of decimal. However, in special cases, the Scholarship, Prizes and Awards Committee of Senate (SPACS) may stipulate grant of the award on the basis of the CPI calculated to a higher place of decimal. The SPACS may also stipulate a different minimum CPI for each award.

### **2.2 Means**

2.2.1 Means of a student shall be evaluated in terms of the maximum income limit of his/her parents as prescribed by the Government from time to time for the purpose of award of a scholarship under the National Scholarship Scheme of the Government of India<sup>1</sup>

At present the Parental income limit is Rs. 2,50,000/- per annum.

2.2.2 In the case of salaried individuals, full emoluments including all allowances,

honorarium, bonus, special pay, etc. (exclusive of HRA, if any) received in a year shall be taken into account for computing the annual income. No relief for long term savings, contribution to a provident fund, payment of life insurance premium, etc. shall be admissible.

2.2.3 In case of non-salaried individuals such as businessmen, land owners/ agriculturists and those that are self-employed, etc., the entire gross income shall be taken into consideration for computing the annual income.

2.2.4 While computing the total annual income, the income of both parents from all sources as well as any income in the scholar's name, shall be taken into consideration for evaluating the means of a student. In the case of death/insanity/other incapacity of the parents, the income of the guardian shall be considered for the purpose, subject to production of documentary proof of death/insanity/other incapacity of the parents as well as a guardianship certificate from the Municipal Corporation/Committee or the Revenue Officer.

### **2.3 Outstanding Academic Performance in any Specific Field**

2.3.1 Outstanding academic performance in any specified field may be evaluated by examining the reporting CPI and/or specific research/developmental project done, research publications, papers presented in national or international conferences and combinations thereof.

2.3.2 The SPACS may seek the advice/recommendation from a special sub-committee of SPACS comprising of faculty from different disciplines in arriving at the criterion for outstanding performance in a specified field.

### **2.4 All Round Performance**

2.4.1 All round performance may be considered as the sum total of the performance of a student in academics, research, social service, games and sports, cultural activities, participation in students counseling, participation and constructive leadership of gymkhana.

2.4.2 A special committee shall be constituted for evaluating candidates for each award of this nature with the Chairman, Academic Senate or his nominee as its Convener.

### **3. FINANCIAL ASSISTANCE FROM INSTITUTE FUNDS**

#### **3.1 Merit-cum-Means (MCM) Scholarships for Undergraduate Students**

##### **3.1.1 Number of Scholarships**

3.1.1.1 In order to financially assist meritorious students coming from economically weaker background, the Institute may award Merit-cum-Means scholarships to needy students from its own funds made available by the Ministry of Human Resource & Development (MHRD) for this purpose.

3.1.1.2 The total number of MCM scholarships awarded in a given batch shall not exceed 25 % of the students enrolled in that batch of the B Tech program. 20 % of the total number of available MCM Scholarships for each batch shall be reserved for students belonging to the SC/ST categories.

3.1.1.3 MCM Scholarships, if unutilized by any particular batch, may be transferred to another batch. Also, unutilized MCM Scholarships reserved for SC/ST students may be transferred for award to the general category students.

##### **3.1.2 Amount of Scholarship**

3.1.2.1 The amount of MCM Scholarship for both general as well as SC/ST category of students shall be as prescribed from time to time by the Ministry of Human Resource & Development (MHRD), and approved by the Board of Governors of the Institute2

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At present the value of the MCM Scholarship for both category of students is Rs 1000/- per month.

3.1.2.2 The award of the MCM Scholarship would also imply granting of Tuition Waiver, i.e. the Freeship.

##### **3.1.3 Submission of Applications for the Award of MCM Scholarship**

3.1.3.1 Only those students shall be eligible to apply who satisfy merit criterion (Section 3.1.4.1 or 3.1.4.2) as well as means criterion (Section 2.2.)

3.1.3.2 A holder of any other scholarship from any other source shall not be eligible

to apply for the MCM Scholarship unless the same is surrendered.

3.1.3.3 On the commencement of each academic year, the Convener, SPACS shall invite applications for the award of MCM Scholarships from students of all years except those of first year. Students who are eligible for the same shall be required to apply in a prescribed format available with this document as well as on the Institute's website and also from the Academic Section. They would be required to submit completed applications, along with supporting documents prescribed in Annexure I through V of application form, as applicable, before the last date specified in the notice of the Convener, SPACS.

3.1.3.4 Income affidavit for the year, proceeding the year of application, of the MCM Scholarship shall be submitted by the parent/guardian of the applicant along with completed application.

3.1.3.5 Applications for the MCM Scholarship from first year students shall be sought at the commencement of the second semester of the programme.

3.1.3.6 In case (a) the circumstances of means for a student have changed for reasons such as the death/ retirement of the earning parent(s) or any other unforeseen reasons and (b) unutilized MCM scholarships are still available, the Convener, SPACS may, at his/her discretion, also accept an application from a student at any time during the academic year. If awarded, in all such cases, the MCM Scholarship shall become tenable from the month in which the circumstance pertaining to means have changed.

#### **3.1.4 Award of MCM Scholarship and its Duration**

3.1.4.1 Except for first year students, (i) a minimum reporting CPI of 6.0 for general category students and (ii) a minimum reporting CPI of 5.5 for SC/ST category students, at the end of the preceding academic year shall be the essential requirement for the award of MCM Scholarship.

3.1.4.2 For first year students, (i) a minimum reporting SPI of 6.0 for general category students and (ii) a minimum reporting SPI of 5.5 for SC/ST students, at the end of the first semester of the programme shall be the

essential requirement for the award of MCM Scholarship.

3.1.4.3 Each renewal of the award of the MCM Scholarship shall require fulfillment of the criteria of merits and means (Section 2.1 and 2.2).

3.1.4.4 Fulfillment of merit as well as means criteria does not automatically ensure the award of MCM Scholarship to a given student. In case of more applications being submitted than the available number of scholarships, the award of MCM Scholarships shall depend on liabilities of parents under current social conditions. Thus, depending on the quality and quantity of applications received, the minimum CPI/SPI requirement, as index of merit, may be raised by the SPACS for the set of applications coming from similar social conditions.

3.1.4.5 Award of the MCM Scholarships shall be for a period of one year. However, the same may be renewed by SPACS on the submission of a fresh application in the subsequent year.

3.1.4.6 The total duration of MCM scholarship to a given student shall not exceed 45 months.

3.1.4.5 Students who are on leave for a semester shall not be eligible for receiving the MCM Scholarship, if awarded, during that semester.

### **3.2 Institute Assistantships to Postgraduate Students**

3.2.1 Institute Assistantship to M Tech Students

3.2.1.1 Depending on the number of assistantships available with each discipline, the Institute may award them to meritorious students of the M Tech programme.

3.2.1.2 Only those students shall be eligible for receiving the Institute Assistantship who have a valid qualifying Graduate Aptitude Test in Engineering (GATE) Score with them. However, those M Tech students who have done their B Tech from IITs and have secured a graduating CPI

> 8.0 on a scale of 10.0, shall be eligible to receive Institute Assistantship without having a valid qualifying GATE Score.

3.2.1.3 Amount of the Institute Assistantship for M Tech students shall be as per the directive of the Ministry of Human Resource & Development (MHRD) and may change from time to time.

The current amount of M Tech Assistantship is Rs 8,000/- per month.

3.2.1.4 All M Tech Institute Assistantship holders shall be required to assist the Institute by carrying out the specified work assigned to them. The work to be assigned shall be as per guidelines of MHRD and shall be monitored by the Convener PGCS or his/her nominee(s).

### **3.2.2 Institute Assistantship to PhD Students**

3.2.2.1 All regular PhD students of the Institute, except those who have been sponsored by their respective organizations, shall be awarded the Institute Assistantship.

3.2.2.2 Amount of the Institute Assistantship for PhD students shall be as per the directive of the Ministry of Human Resource & Development (MHRD) and may change from time to time

The current amount of Assistantship is (a) Rs 18000/- per month for the first two years of the PhD programme having M.E./ M.Tech./ M Des or equivalent as the qualifying degree for admission in the PhD programme. The Assistantship will be increased to Rs 20,000/- per month for the third and the fourth year for the PhD students with satisfactory performance during the first two years of PhD Programme.

3.2.2.3 All Ph.D. Institute Assistantship holders shall be required to assist the Institute by carrying out the specified work assigned to them. The work to be assigned shall be as per guidelines of MHRD and shall be monitored by the Convener PGCS or his/her nominee(s).

### **3.3 Tuition Waiver, i.e. Freeship**

3.3.1 All undergraduate MCM Scholarship holders shall be entitled to a tuition waiver.

They shall, however, be required to pay all other fees such as gymkhana fees, hostel seat rent, etc. as per rules.

3.3.2 All undergraduate SC/ST students are awarded the Tuition Waiver. They may, however, be required to pay all other fees such as gymkhana fees, hostel seat rent, etc. as per rules.

3.3.3 An additional 10 % of students of each batch of the undergraduate programme, beyond those awarded the MCM Scholarships, may be awarded only Tuition Waiver. The following category of students may be considered eligible for such additional Tuition Waivers:

a. Applicants who were eligible for the award of the MCM Scholarship, but could not be awarded the same because of the non-availability of enough number of MCM Scholarships.

b. Under very special conditions, any other student the SPACS considers suitable for the grant of a Tuition Waiver.

3.3.4 Except SC/ST students of M Tech or PhD programmes, no postgraduate students are entitled for full Tuition Waiver. The Institute may, however, waive part of the tuition fee for its regular students in different postgraduate programmes.

#### **3.4 Book Grant and other Grants**

3.4.1 From the funds made available by the Ministry of Social Justice and Empowerment/ Ministry of Tribal Affairs, a selected number of SC/ST students of the B Tech programme, whose parent's total annual income from all sources is within the prescribed maximum limit as per Section 2.2.1, shall be given an annual book grant and other grants<sup>5</sup>

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The current amount of Book Grant is Rs 3,000/- per student per annum or actual whichever is lower.

3.4.2 M Tech students and PhD students of the Institute may be provided an annual contingency grant as decided by the Institute administration. However, this will be

governed by the guidelines as decided by the institute administration from time to time.

### **3.5 Boarding and Lodging Grants for Undergraduate SC/ST Students**

3.5.1 For those SC/ST students of the B Tech programme, whose parents' total annual income from all sources is less than the prescribed upper limit as per Section 2.2.1, the Institute may give boarding and lodging charges to a maximum of (i) 10 Scheduled Castes students and (ii) 5 Scheduled Tribes students per batch awarded by the Ministry of Social Justice and Empowerment and Ministry of Tribal Affairs respectively<sup>6</sup>

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The scheme, starting from 2007, grants boarding charges of Rs 2,200/- per month or actual whichever

is less to students selected for the award.

3.5.2 Those students who are not awarded the boarding and lodging facilities under Section 3.5.1 but have their parent's total annual income from all sources less than the prescribed upper limit as per Section 2.2.1, may be awarded the Free Basic Messing facility through funds made available for this purpose either by the Harijan Samaj Kalyan Department of the State Government or by the Ministry of Human Resource & Development. Under this scheme, the bill for basic messing, as applicable for the individual hostel where the concerned students reside, shall be paid by the Institute.

3.5.3 Those students who are not awarded the boarding and lodging facilities under Section 3.5.1 but have their parents' total annual income from all sources less than the prescribed upper limit as per Section 2.2.1, may also be given a monthly pocket allowance through separate funds made available by the Harijan Samaj Kalyan Department of the State Government or by the Ministry of Human Resources & Development. The amount of the pocket allowance shall be as per policy of the Government<sup>7</sup>

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At present, the Pocket Allowance is of Rs 250/- per month.

3.5.4 All SC/ST students desirous of availing the Free Boarding and Lodging facility, awarded by the Ministry of Social Justice and Empowerment/Ministry of Tribal Affairs, or Free Basic Messing Facility and the Pocket Allowance awarded by the Harijan Samaj Kalyan Department of the State Government or by the Ministry of Human Resource & Development shall be required to submit applications, with the requirements specified in Sections 2.2.2 – 2.2.4, to the Convener SPACS in the beginning of each academic year.

#### **4. INSTITUTE MEDALS AND PRIZES**

##### **4.1 Chairman's Gold Medal**

4.1.1 The Chairman's Gold Medal (CGM), to be presented at the Institute Convocation every year, shall be awarded to the student with the best academic performance in the entire graduating B Tech batch. However, a reporting CPI of 9.0 shall be the minimum requirement for the award of the Chairman's Gold Medal.

4.1.2 The best academic performance shall be judged in terms of the reporting CPI. In the event of a tie in terms of the reporting CPI, the CPI shall be computed to the second decimal place in an attempt to break the tie. However, if there is still a tie, the CGM shall be awarded to as many students as are tied. No attempt shall be made to break the tie by computing the CPI to the third places of decimal and so on.

4.1.3 The student receiving the award should not have been involved in any act of indiscipline (except warning under clause 3.2.2.1 of SACS manual) during her/his entire academic programme

4.1.4 The CGM shall be made out of 15 gm of 22 carat gold.

##### **4.2 Director's Gold Medals**

4.2.1 Director's Gold Medals (DGMs), to be presented at the Institute Convocation every year, shall be awarded for the best all round performance from among the graduating (a) B Tech batch and (b) M Tech/M Des/PhD students. Students of all disciplines/programme shall be eligible for the award of DGM.

4.2.2 The all-round performance shall be judged by a separate committee appointed by the Chairman Senate. Criteria for short listing the candidates shall be laid down by the committee as per Section 2.4.1. However, a reporting CPI of 8.0 shall be the minimum requirement for the award of the Director's Gold Medal.

4.2.3 The student receiving the award should not have been involved in any act of indiscipline (except warning under clause 3.2.2.1 of SACS manual) during her/his entire academic programme.

4.2.4 The DGMs shall be made out of 15 gm of 18 carat gold.

#### **4.3 D&M Proficiency Gold Medals**

4.3.1 Design and Manufacturing Proficiency Gold Medals are awarded at the time of Institute's Convocation for the best cross-disciplinary project from among the graduating BTech students and the best cross-disciplinary thesis from among the graduating MTech / MDes / PhD students. Award of design and manufacturing proficiency gold medal (D&MPGM) is applicable for BTP/PBI or Design and Fabrication projects.

4.3.2 The award of D&M Proficiency Gold Medals shall be decided by the separate committee appointed for this purpose by the Chairman, Academic Senate which will seek applications after finalizing a short listing criterion. After short listing of applications, the committee shall call all the short listed applicants for a presentation/demonstration.

4.3.3 D&M Proficiency Gold Medals may not be awarded if projects/theses submitted for the award are found to have an inadequate cross-disciplinary content.

4.3.4 The D&M Proficiency Gold Medals shall be made out of 15 gm of 18 carat gold.

4.3.5 In the event of a group being awarded the best cross-disciplinary project, each individual student shall be awarded the medal provided the student satisfies following eligibility criteria for the award.

(a) The students must have at least a CPI of 6.5.

(b) At the time of application, there should not be any backlog of courses for the student.

(c) Student's grade in the project must be A, A+ or S."

#### **4.4 Academic Performance Proficiency Silver Medals**

4.4.1 Academic Performance Proficiency Silver Medals shall be awarded at the time of Institute's Convocation for the outstanding academic performance (refer to section number 2.3) to the best graduating student of each discipline of the B Tech program.

4.4.2 The recipient(s) of the Chairman's Gold Medal shall be eligible for the award of the Academic Performance Proficiency Medal.

4.4.3 The award of a Proficiency Medal may not be made for a particular discipline if the total number of graduating students for that discipline is less than five.

4.4.4 The award of a Proficiency Medal may not be made for a particular discipline if the highest CPI among the graduating students of that discipline is less than 8.5.

4.4.5 In the event of a tie, in terms of the reporting CPI, the medal shall be awarded to all the students, so tied, with no effort being made to break the tie.

4.4.6 Academic Performance Proficiency Medals shall be made out of 15 gm silver.

#### **4.5 IIITDM Proficiency Prizes**

IIITDM Proficiency Prizes is normally awarded for (i) the best B Tech project in the graduating BTech batch and (ii) the best thesis from among the graduating MTech./ M.Des./ PhD students in each of the discipline. The recipient(s) of the D&M Proficiency Gold Medals shall be eligible for the award of the IIITDM Proficiency Prizes

4.5.1 IIITDM Proficiency Prizes shall be silver medals to be awarded at the time of Institute's Convocation for (i) the best project in the graduating B Tech batch and (ii) the best thesis from the graduating M Tech/ MDes/ PhD students in each of the disciplines. In case a student's program does not belong to any of the discipline, he may apply for any one of the discipline related to his major area of research.

4.5.2 The discipline committee constituted for this award for each discipline shall lay the

minimum requirements for the award of Proficiency Prize and shall lay the criteria for short listing the applications received.

4.5.3 In the event of a group being awarded the best project award, each graduating member of the team shall be awarded the prize.

4.5.4 There will be separate prize for the M.Tech, M. Des. and Ph.D. Prize for Ph.D. will be awarded when there is enough competition i.e. 5 or more Ph.D. degree is awarded in that particular year.

4.5.5 Proficiency Prizes shall be made out of 15 gm silver."

4.5.6 In the event of a group being awarded the best project, each individual student will be awarded the medal provided the student satisfies following eligibility criteria for the award."

(a) The students must have at least a CPI of 6.5.

(b) At the time of application, there should not be any backlog of courses for the student.

(c) Student's grade in the project must be A, A+ or S."

#### **4.6 Director's Silver Medals**

4.6.1 Director's Silver Medals (DSMs) shall be presented at the time of Institute's Convocation for the outstanding performance in (i) Games & Sports activities and (ii) Cultural activities from among the graduating undergraduate and postgraduate students.

4.6.2 The award of DSMs shall be decided by the separate committee appointed for this purpose by the Chairman, Academic Senate. The committee shall lay down the criteria for short listing the candidates before calling them for an interview.

4.6.3 Director's Silver Medals shall be made out of 15 gm silver

#### **4.7 Notional Prizes and Certificates of Merit**

4.7.1 Notional Prizes and Certificates of Merit shall be awarded to 7 percent of the students of each undergraduate and postgraduate batch for excellent academic performance in an academic year. In the first two years, the 7 percent shall be calculated for the entire B Tech batch, whereas for the third year the award shall be

made for each discipline taking into account their respective strengths. For PG student, the 7 percent shall be calculated based on the academic performance of the first two semester of PG program for each discipline taking into account their respective strengths.

4.7.2 The Notional Prize may be awarded to a student irrespective of whether he/she is a recipient of any other scholarship or not.

4.7.3 The value of the Notional Prize shall be as prescribed from time to time, by the Ministry of Human Resources and Development

The present amount is Rs. 2000/-.

4.7.4 In calculating the actual number of awards to be made in any year or for any department, any fraction shall usually be rounded off to the next integer. However, this may not be done in those cases where there is a significant difference in the performance level of the students.

4.7.5 The award shall, in principle, be given only on the basis of the annual performance.

(By dividing credits earned in two regular semester with total credits for two semester) Further the award may not be made for any department having student strength of less than 5. It may also not be made if the highest CPI for any department is considerably lower than the performance levels at which the award is being made for other departments or minimum CPI limit of 8.5.

## **5. INSTITUTION OF OTHER SCHOLARSHIPS, PRIZES AND MEDALS**

5.1 The Institute welcomes starting of new scholarships, prizes and medals for its undergraduate as well as postgraduate students from other governmental and nongovernmental sources. However, the purpose of instituting new scholarships, prizes and medals should fulfill the goals for the same as described in Section 1.1 -1.4.

5.2 Institution of any new award at the Institute shall require the approval by its Senate. In order

to do the same, the proposal from an outside source shall be examined by the Scholarships, Prizes and Awards Committee of the Senate (SPACS). If found suitable, the SPACS shall recommend the same to the Senate by ensuring that the proposal necessarily contains the following information:

- (a) the title of the award,
- (b) the nature of the award,
- (c) the time of presentation, and
- (d) the criteria for selection/eligibility.

5.3 Terms and conditions for the award of a new scholarship/prize/medal in the Institute shall be formulated by the Senate. No obligation is to be normally prescribed for awarding any scholarship/prize/medal. This condition may, however, be modified at the discretion of the Senate.

5.4 Normally only scholarships may be instituted through an endowment. However, persons or organizations of national or international repute may also institute very prestigious medals and prizes through an endowment. In the event of starting a new award by creating an endowment, the interest to be obtained from the same should at least take care of the current value of the scholarship/prize/medal to be given plus 10% increase in its value every year.

5.5 On approval by the Senate, new scholarships and prizes may be awarded in the name/memory of:

- (a) Persons who are/were directly related to the Institute and have/had added to its glory;
- (b) Industrial concerns or educational trusts of national or international repute.

5.6 In exceptional cases, the SPACS may also recommend institution of scholarships funded by sources, excluding individuals, other than those included in Section 5.5.

5.7 Recurring scholarships could also be considered in the event of a donor/sponsoring agency

of national/international repute is not willing to create an endowment, but desires to finance

the scholarship on a yearly basis. In all such cases, the donor/sponsoring agency shall be required to (i) deposit the amount of scholarship for one full year as an advance and (ii) make the commitment to do so for at least five consecutive years of the award.

5.8 When instituted by persons who are/were directly related to the Institute and wish to award

a scholarship in the memory of their beloved ones, the amount of scholarship shall at least be equal to the value of the Institute Merit-cum-Means, (MCM) scholarship at the time of its

institution.

5.9 Such proposals would be considered by SPACS only if the donor/sponsoring agency commit to the institute the scholarship for a minimum period of five consecutive years.

## **6. GENERAL GUIDELINES**

6.1 All scholarships, medals, etc. are liable to forfeiture/withdrawal partially or fully in case of misconduct or deliberate concealment of material facts by the award winner. A similar action may also be taken if it is found that a student deliberately misguided the Senate Scholarships, Prizes and Awards Committee by giving false information.

6.2 A student leaving the Institute on his/her own accord without completing the prescribed program of study may be required to refund the amount of scholarship received by him/her in that academic year.

6.3 A student may normally receive only one scholarship/stipend. In case he/she is awarded more than one scholarship/stipend from any outside source, he/she shall be given the option to choose one scholarship or stipend from various alternatives and surrender the other.

6.4 No scholarships will be paid for the month subsequent to the one in which the student completes the examination of all prescribed courses.

6.5 The Senate is empowered to change the clauses of this manual by giving an advanced notice to this effect to its members.

## **Indo-Japanese Collaboration**

The IIITDM Jabalpur – Japan collaboration is an aspect of a wider partnership envisaged between Japan and India. The Institute is being developed and nurtured under India - Japan partnership as a unique Institute of its kind with focus on IT enabled design and manufacturing. Under a joint agreement between the two Governments, Japan, a leader in cutting edge manufacturing technologies is committed to provide support for development of the teaching and research programmes and also to promote the infrastructure of the Institute.

Mr Junichiro Koizumi, the Honourable Prime Minister of Japan, had visited India from April 28 – 30, 2005. During his meeting with Dr Manmohan Singh, the Honourable Prime Minister of India, an agreement “*to make every effort to collaborate towards the*

*development of the Indian Institute of Information Technology, Design & Manufacturing Jabalpur (IIITDM Jabalpur)" was signed between the two sides.*

After the visit of the Japanese Prime Minister to India, a team lead by Mr Toshifumi Sakai, Resident Representative of Japan International Cooperation agency (JICA), and Mr Yamamoto, Counselor in the Embassy of Japan in India, had visited IIITDM Jabalpur in June 2005. A Japanese team comprising of Prof Manabu Kiuchi, Prof Yoshimo Ito, Dr. Toshi Ohashi and Dr. Koichi Kuroda had also visited the Institute in the month of March – April, 2006. The possible model of cooperation was discussed during these meetings. It was also decided that IIITDM Jabalpur would work out its tentative curriculum which would then be discussed with the Japanese side. This joint discussion would lead to possible mechanisms of providing the Japanese expertise and help in bringing up the new Institute.

As a precursor to the forthcoming visit of Dr Manmohan Singh, the Honourable Prime Minister, to Japan in December 2006, a team led by Shri Sudeep Banerjee, the Chairman, BOG of the Institute and comprising of (i) Prof Sanjeev Bhargava, Director of the Institute, (ii) Prof Somenath Biswas, Professor of Computer Science & Engineering and Dean of Faculty Affairs at IIT Kanpur and (iii) Dr Puneet Tandon, Associate Professor at IIITDM Jabalpur visited Tokyo in November 2006. The curriculum draft prepared by IIITDM Jabalpur was jointly discussed and important amendments were proposed by keeping in view the mandate of the newly established Institute. It was also decided that the following team from Japan would work out the cooperation modalities and methodologies for assisting the new Institute:

- Prof Manabu Kiuchi, Professor Emeritus at the University of Tokyo: Indo-Jap Overall Programme Leader
- Prof Yoshimo Ito, Professor Emeritus at the Tokyo Institute of Technology: Programme Leader for the courses of Mechanical Engineering
- Prof Takashi Nanya, Professor at the University of Tokyo: Programme Leader for the courses of Electronics & Communication Engineering
- Dr Hiroshi Suzuki, Executive Director, GE (Energy), Japan Programme Leader for the courses in Computer Science & Engineering

