(index.php)

COURSE DETAILS

Bachelor of Technology (B.Tech) Programme

A brief summary

Institute offers four year undergraduate degree (B.Tech) programme in Computer Science & Engineering. The course curriculum for the undergraduate program gives the flexibility to the students to prepare for advanced specializations. The department commits to offer a set of electives so that students can plan their academic program in advance. The course structure provides a right mix of compulsory and elective courses.

What you will learn

The BTech Program is divided into two distinct parts. A student has to go through a common program called Core Curriculum. Most of the core curriculum is completed in the first four semesters. The last four semesters has a large number of professional courses, that initiates the student to topics in Computer Science and Engineering.

- ✔ **Expert teachers**
- ✔ **Extensive doumentation provided**
- ✔ **Good infrastructure**
- ✔ **Best learning environment**

Home (index.php) / Active page

First Semester
COURSES

Course Id	Course Name	Credits
NS1001	Mathematics-I (3L+ 1T)	4
NS1002	Engineering Mechanics (2L + 1T + 2P)	4
HS1001	Effective Communication Skills (2L)	2
IT1001	Introduction to Programming In C/Python (2L + 3P)	3
CS1001	Introduction to Profession (1L + 2P)	1

Course Id	Course Name	Credits
PR1001	Innovation Theory and Practice (1L + 2P) (Year Long Courses)	2
PC1001	Professional Development Course (1L) (Year Long Courses)	1

Second Semester
COURSES

Course Id	Course Name	Credits
NS103a	ODE & PDE (2L + 1T + 2P)	4
NS103b	Linear Algebra (2L + 1T + 2P)	4
NS1004	Physics II (3L + 1T + 2P)	4
ES1002	Basic Electronics (3L + 2P)	4
DS1005	Engineering Graphics (2L + 3P)	3
ES1003	Innovation Theory and Practice (1L + 2P)	2
HS102a or HS102b	Indian Culture, Ethics and Human Values (2L + 2T)	3
PC1002	Professional Development Course (Year Long Course)	1

Third Semester
COURSES

Course Id	Course Name	Credits
IT2001	Data Structure (2L + 2P)	3
CS2002	Computer Organization and Architecture (3L + 2P)	4
CS2003	Database Management Systems (3L + 2P)	4
CS2004	Introduction to Data Science (3L + 2P)	4
OE2C09	Open Elective: Graph Theory (3L)	3
NS2001	Open Elective: Biology for Engineers (2L)	2

Course Id	Course Name	Credits
IT2C01	IT Workshop I: OOPs in Java (2P)	2
PR2002	Discipline Project (Year Long Courses)	2
PC2002	Professional Development Course (1L) (Year Long Courses)	2

Fourth Semester
COURSES

Course Id	Course Name	Credits
CS2005	Language Theory (3L)	3
CS2006	Operating Systems (3L)	3
CS2007	Design & Analysis of Algorithm (3L)	3
CS2008	Computer Network (3L)	3
OE2C01	Elective: NoSQL Databases (3L)	3
OE2C02	Elective: Descrete Structures (3L)	3
IT2C02	IT workshop II: Embedded System Lab (2P)	2
PR2002	Discipline Project (Year Long Course)	2
PC2002	Professional Development Course (1L) (Year Long Courses)	2

Fifth Semester
COURSES

Course Id	Course Name	Credits
CS3009	Network Security & Cryptography (3L)	3
CS3010	Software Engineering (3L)	3
CS3011	Artificial Intelligence (3L)	3
OE3C24	Open Elective: Parallel Computing (3L)	3

Course Id	Course Name	Credits
IT3C01	IT Workshop III: Computer Network Lab (2P)	2
PR3003	Optional Project (Year Long Course)	2
PC3003	Professional Development Course (1L) (Year Long Course)	1

Sixth Semester
COURSES

Course Id	Course Name	Credits
DS3014	Fabrication Project (8P)	4
HS3004	Ecology and Environment Science (2L)	2
OE3C28	Elective 1: Cyber Security (2L + 3P)	3
CS8007	Elective 1: Social Network Analysis (3L)	3
CS8009	Elective 2: Image Processing (3L)	3
CS8010	Elective 2: Introduction to Digital watermarking (3L)	3
CS8011	Elective 3: Machine Learning (3L)	3
OE3C34	Elective 3: Cyber Physical Systems (3L)	3
IT3C03	IT workshop IV: Web and mobile App development (3P)	2
PR3003	Optional Project (Year Long Course)	2
PC3003	Professional Development Course (1L) (Year Long Course)	1

Seventh Semester
COURSES

Course Id	Course Name	Credits
CS8001	Open Elective 1: Introduction to Blockchain Technology (2L + 2P)	3
CS8016	Open Elective 1: Cloud Computing (3L)	3

Course Id	Course Name	Credits
CS8004	Open Elective 2: Deep Learning and Applications (2L + 2P)	3
CS8006	Open Elective 2: Internet of Things (2L + 2P)	3
CS8002	Open Elective: Multimedia Processing (3L)	3
CS8003	Open Elective: Data Clustering (3L)	3
CS8005	Open Elective: Research Method in Computer Science (3L)	3
PC4004	Professional Development Course (1L) (Year Long Courses)	1

Eirth Semester
COURSES

Course Id	Course Name	Credits
CS8013	Elective 1: Mobile and Wireless Network (3L)	3
CS8021	Elective 1: Information Retrival and Semantic Web (3L)	3
CS8015	Elective 2: Computer Vision with Deep Learning (2L + 2P)	3
CS8018	Elective 2: Hardware Security (3L)	3
	BTP OR Project-based Internship	9/15
PC4004	Professional Development courses (1L) (Year Long Course)	1

❓ Admissions to the B.Tech.programme

Admissions to the B.Tech.programme are made once a year in July through JEE (Main) conducted by Central Board of Secondary Education. The minimum academic qualification for admission is a pass in the final examination of 10+2 system or its equivalent with Physics and Mathematics as compulsory subjects and any one among Chemistry, Bio-technology, Computer Science and Biology as optional subjects. The procedures and other requirements for admission are specified in the JEE (Main) Information Brochure.

❓ Admissions to the B.Tech.programme for foreign nation

For admission of students for Foreign Nation will be through DASA(Direct Admission of Students Abroad)

- B.Tech Course Curriculum (course_details_1.html)
- Documents required at the time of Admission/Physical Reporting (course_details_2.html)

- Seat Matrix (course_details_2.html)
- Proforma for OBC Certificate (course_details_3.html)

❓ Reservations:

Reservations for Scheduled Caste (SC), Scheduled Tribe (ST), Other Backward Classes (OBC) and Physically Handicapped (PH) candidates are as per the Government of India existing rules.

IMPORTANT LINKS

TA Duty 2023 (assets\misc\2022-2023 Sem II - CSE TA duty list V1.pdf)

Project Based Internship (http://pbi.iiitdmj.ac.in/)

Placement Cell (http://placement.iiitdmj.ac.in/)

Dean of Academics (https://www.iiitdmj.ac.in/academics/dean_acad.php)

Dean of Students (https://www.iiitdmj.ac.in/students/dean_office.php)

Dean of Research and Development (https://www.iiitdmj.ac.in/rspc.iiitdmj.ac.in/office.php?pid=7)

Dean of Planning and Development (http://faculty.iiitdmj.ac.in/faculty/pnkondekar)

RESEARCH GROUP

Image Processing and Computer Vision (https://www.iiitdmj.ac.in/icv.iiitdmj.ac.in/)

IoT and Embedded Systems (https://www.iiitdmj.ac.in/iot.iiitdmj.ac.in/)

Machine Intelligence (https://www.iiitdmj.ac.in/main.iiitdmj.ac.in/)

QUICK LINKS

IIITDM Jabalpur Home (http://www.iiitdmj.ac.in/)

Academic Calender (http://www.iiitdmj.ac.in/academics/calendar.php#acad_cal)

Holidays 2023 (https://www.iiitdmj.ac.in/downloads/Closed-Holiday-2023.pdf)

Placement Cell (http://placement.iiitdmj.ac.in)

About Us (aboutus.php)

E & ICT Academy (http://ict.iiitdmj.ac.in/index.html)

Web Team (webteam.php)

in
(https://www.linkedin.com/in/cse-

discipline-

iiitdm-

jabalpur-

(https://twitter.com/CSEiitdmj)

0761-2794261

Mon - Fri / 9:00 AM - 05:00 PM