

BTech Mechanical Engineering

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Curriculum Structure

Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7/8	Semester 8/7
NS1 (3L+2T, 4C) Mathematics I	NS3 (3L+2T, 4C) Mathematics II	ES5 (2L+2P, 3C) Data Structure	DC04 (3C)	DS1 (1L+6P, 4C) Engineering Design	MN1 (8P, 4C) Fabrication Project	OE7 (3C)	Project-based
NS2 (3L+1T+2P, 4C) Physics I	NS4 (3L+1T+2P, 4C) Physics II	DC01 (4C)	DC05 (4C)	DC08 (3C)	OE4 (3C)	OE8 (3C)	Internship (15C)
HS1a (1L+2T, 2C) Effective Communications OR HS1b Alternate HSS Course	HS2 (2L+2T, 3C) Indian Culture, Ethics and Human Values	DC02 (4C)	DC06 (4C)	DC09 (3C)	OE5 (3C)	OE9 (3C)	(PBI: Optional in 7th semester) OR
ES1 (2L+3P, 3C) Introduction to Programming	ES3 (3L+2P, 4C) Basic Electronics	DC03 (4C)	DC07 (4C)	DC10 (4C)	OE6 (3C)	OE10 (3C)	
Prof C1/ SM1 (1L, 1C) Introduction to Profession	ES4 (2L+3P, 3C) Engineering Graphics	OE1 (3C)	OE2 (3C)	OE3 (3C)		OE11 (3C)	BTP (9C) + 2 OEs (3-0-0-3) (Total: 6C)
		NS5 (2L, 2C) Biology for Engineers (A Batch)	NS5 (2L, 2C) Biology for Engineers (B Batch)		HS3 (2L, 2C) Ecology and Environment		

			IT Workshop I (2P, 2C)	IT Workshop II (2P, 2C)	IT Workshop III (2P, 2C)	IT Workshop IV (2P, 2C)		
ES2 Innovation Theory and Practice (1L+2P, 2C)			PR Discipline Project (2C)		OPR Optional Project (2C)			
PC1 Professional Development Course (1C)			PC1 Professional Development Course (1C)		PC3 Professional Development Course (1C)		PC4 Professional Development Course (1C)	
Total Contact Hours	23	28	25/27	27/25	25	21	15	0 / 6
L-T-P	11-5-7	14-5-9	13-4-8/15-4-8	17-2-8/15-2-8	11-2-12	11-0-10	15-0-0	0/6-0-0
Total Credits	14	21	20/22	25/23	19	18	16	15
Credits per year	35		45		37		31	
Total Degree Credits	148							

Note:

The credits of Projects (Innovation, Discipline projects) and PDC are allotted/counted in the end of even semester.
 Discipline core courses can be of any one of the following structures 3-0-2, 2-2-2, 3-0-0, 3-1-0, 3-1-2 with credit count limit on credit counts.

Semester III

S. No.	Course Number and Name	L-T-P	Credits
	DC1 Manufacturing Processes	3-0-2	4
	DC2 Solid Mechanics	2-2-2	4
	DC3 Engineering Thermodynamics	3-2-0	4
	IT Workshop I (covers contents related to drawing/drafting/modelling and kinematic/ dynamic modelling)	0-0-2	2
	Total	8-4-6	14

Semester IV

S. No.	Course Number and Name	L-T-P	Credits
	DC4 Engineering Materials and Characterization	3-0-0	3
	DC5 Kinematics and Dynamics of Machines	3-1-2	4
	DC6 Manufacturing Technology	3-0-2	4
	DC7 Fluid Mechanics and Machines	3-1-2	4
	IT Workshop II (covers contents related to solid modelling and manufacturing)	0-0-2	2

	Total	12-2-8	17
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Semester V

S. No.	Course Number and Name	L-T-P	Credits
	DC8 Design of Mechanical Components	2-2-0	3
	DC9 Industrial Internet of Things	2-0-2	3
	DC10 Heat Transfer	3-0-2	4
	IT Workshop III (covers contents related to simulation)	0-0-2	2
	Total	7-2-6	12

Semester VI

S. No.	Course Number and Name	L-T-P	Credits
	IT Workshop IV (covers contents related to CAE)	0-0-2	2
	Total	0-0-2	2

ABOUT

Home (<https://www.iiitdmj.ac.in/>)

PBI (pbi.iiitdmj.ac.in)

RTI (<https://www.iiitdmj.ac.in/rti.php>)

IIIT Act (https://www.iiitdmj.ac.in/downloads/IIIT%20Act%2030_of_2014.pdf)

Statutes (https://www.iiitdmj.ac.in/downloads/The_Gazette_publication_of_Statutes_of_IIITDM_Jabalpur.pdf)

Maps & Directions (https://www.iiitdmj.ac.in/maps_direction.php)

Taxi Services (<https://www.iiitdmj.ac.in/downloads/taxi%20services.pdf>)

Bus Time Table ([https://www.iiitdmj.ac.in/downloads/time table Detailed.pdf](https://www.iiitdmj.ac.in/downloads/time_table_Detailed.pdf))

Organizational Chart (https://www.iiitdmj.ac.in/downloads/Organizational_Chart.pdf)

Recruitment and Promotion Norms-2016 ([https://www.iiitdmj.ac.in/downloads/RPN-2016\(1\).pdf](https://www.iiitdmj.ac.in/downloads/RPN-2016(1).pdf))

IMPORTANT LINKS

Electronics and ICT Academy (ict.iiitdmj.ac.in)

Study in India (<https://studyinindia.gov.in>)

Annual Report (https://www.iiitdmj.ac.in/annual_report.php)

Annual Account (https://www.iiitdmj.ac.in/annual_account.php)

World e-book library (<https://community.worldlibrary.in/?Affiliatikey=NDL-ZY1239>)

Consortium for Educational Communication(CEC) (<https://cec.nic.in/Pages/Home.aspx>)

National Academic Depository(NAD) (<https://nad.gov.in/index.html>)

Building Materials & Technology Promotion Council(BMTPC) (<https://bmtpc.org/topics.aspx?mid=56&Mid1=180>)

Intellectual Property Policy(IPR) (https://www.iiitdmj.ac.in/downloads/IPR_Policy_Final_V1_16_6_2020.pdf)

Equal opportunity policy for persons with disabilities (https://www.iiitdmj.ac.in/downloads/Equal_Opportunity_Policy_IIITDM_Jabalpur.pdf)

Accessibility (accessibility.php)

Asi@Connect (<https://www.iiitdmj.ac.in/asia-connect.iiitdmj.ac.in/>)

Visvesvaraya PhD Scheme portal (<https://phd.dic.gov.in/>)

OTHERS

SC/ST and Minority Cell (<https://www.iiitdmj.ac.in/STSCCell/>)

Women Cell (<https://www.iiitdmj.ac.in/womencell/index.html>)

Internal Complaints Committee of the Institute ([https://www.iiitdmj.ac.in/downloads/Internal Complaints Committee of the Institute-2429-31-jan-2024.pdf](https://www.iiitdmj.ac.in/downloads/Internal%20Complaints%20Committee%20of%20the%20Institute-2429-31-jan-2024.pdf))

Grievance Redressal Cell (https://www.iiitdmj.ac.in/grievance_cell.php)

Scholarship ([scholarship.php](https://www.iiitdmj.ac.in/scholarship.php))

Anti-Ragging Committee and Squad (<https://www.iiitdmj.ac.in/downloads/Anti-Ragging-Committee-and-Squad-2024.pdf>)

Revista ([revista.iiitdmj.ac.in](https://www.iiitdmj.ac.in/revista))

Fit India (<https://www.iiitdmj.ac.in/fitindia.iiitdmj.ac.in/Home.html>)

Azadi Ka Amrit Mahotsava (AKAM) 2022 (<https://www.iiitdmj.ac.in/AKAM.php>)

Contacts (<https://www.iiitdmj.ac.in/contact.php>)

Press Releases (<https://www.iiitdmj.ac.in/press-releases.php>)

Closed Holiday 2024 (<https://www.iiitdmj.ac.in/downloads/Closed-Holiday-2024.pdf>) | 2025 (<https://www.iiitdmj.ac.in/downloads/Closed-Holiday-2025.pdf>)

Restricted Holiday 2024 (<https://www.iiitdmj.ac.in/downloads/Restricted-Holiday-2024.pdf>) | 2025 (<https://www.iiitdmj.ac.in/downloads/RH-2025.pdf>)

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Phone Directory (<https://www.iiitdmj.ac.in/downloads/IIITDMJ%20Telephone%20Directory.pdf>)



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(https://www.instagram.com/iiitdm_jabalpur/)



(<https://www.linkedin.com/in/iiitdm-jabalpur/>)



Moodle E-Learning Portal (<https://moodle.iiitdmj.ac.in/>)



ERP Faculty Login (<https://iiitdm.iweb.ltd/>)

प्रशासनिक शब्दबोध

स्वीकार्य

Admissible

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