IIITDM Jabalpur

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SMART MANUFACTURING

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(4-year Undergraduate Program) 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 Internship (15C)

(PBI: Optional in 7th semester)

OR

BTP (9C) + 2 **OEs** (3-0-0-3) (Total: 6C) |
NS2 (3L+1T+2P, 4C) Physics I	**NS4** (3L+1T+2P, 4C) Physics II	**DC01** (4C)	**DC05** (4C)	**DC08** (3C)	**OE4** (3C)	**OE8** (3C)	
HS1a (1L+2T, 2C) Effective Communications OR **HS1b** **Alternate HSS Course**	**HS2** (2L+2T, 3C) Indian Culture, Ethics and Human Values	**DC02** (4C)	**DC06** (3C)	**DC09** (3C)	**OE5** (3C)	**OE9** (3C)	
ES1 (2L+3P, 3C) Introduction to Programming	**ES3** (3L+2P, 4C) Basic Electronics	**DC03** (4C)	**DC07** (3C)	**DC10** (3C)	**OE6** (3C)	**OE10** (3C)	
Prof C1/ SM1 (1L, 1C) Introduction to Profession	**ES4** (2L+3P, 3C) Engineering Graphics	**OE1** (3C)	**OE2** (3C)	**DC11** (3C)		**OE11** (3C)	
		NS5 (2L, 2C) Biology for Engineers (A Batch)	**NS5** (2L, 2C) Biology for Engineers (B Batch)	**OE3** (3C)	**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	24/26	24/22	28	21	15	0 / 6
L-T-P	11-5-7	14-5-9	14-2-8/16-2-8	15-1-8/13-1-8	12-0-16	11-0-10	15-0-0	0/6-0-0
Total Credits	14	21	20/22	23/21	21	18	16	15
Credits per year	35		43		39		31	
Total Degree Credits	148							

Semester III

S. No.	Course Number and Name	L-T-P	Credits
	DC1 Manufacturing Processes	3-0-2	4
	DC2 Solid Mechanics + Design of Mechanical Components	3-1-2	4
	DC3 Engineering Thermodynamics + Heat Transfer	3-1-0	4
	IT Workshop I (covers contents related to drawing/drafting/modelling and kinematic/ dynamic modelling)	0-0-2	2
	Total	9-2-6	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 Cyber Physical Production Systems	2-0-2	3
	DC7 Industrial Automation	2-0-2	3
	IT Workshop II (covers contents related to solid modelling and manufacturing)	0-0-2	2
	Total	10-1-8	15

Semester V

S. No.	Course Number and Name	L-T-P	Credits
	DC8 Additive and Subtractive Manufacturing Processes	2-0-2	3
	DC9 Computer Aided Product Development	2-0-2	3
	DC10 Control Systems	2-0-2	3
	DC11 Advanced Cyber Physical System	2-0-2	3
	IT Workshop III (covers contents related to simulation)	0-0-2	2
	Total	8-0-10	14

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)
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)

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)

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

CONTACT US

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

(https://twitter.com/iiitdmjbp)   (https://www.facebook.com/iiitdm.jbp/)   (https://www.youtube.com/channel/UCODKL--xMCqXIK31cRdOWOw) (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