# **Electronics and Communication Engineering**

Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester	Semester 8	
	NS3 (3L+2T, 4C)	Engineering	Digital Signal Processing	Engineering Design	MN2 (8P, 4C) Fabrication Project	OE07 (3L, 3C)	Project- based Internship (16C)	
NS2 (3L+1T+2P 4C) Physics I	NS4 (3L+1T+2P, 4C) NS104 Physics II	Digital Electronics and Microprocessor	DC5: (3L+2P=4C) Control Systems	DC8: (3L=3C) VLSI System Design (VLSI IC desien, logic synthesis using VHDL)	OE04 (3L, 3C)	OE08 (3L, 3C)	OR	
HS1 (1L+2T, 2C) HS101 Effective Communications OR HS2 Alternative	HS3 (2L+2T, 3C) HS102 Indian Culture, Ethics and Human Values	Analog Communications + DC2a: (2L=2C) Network Theory/Analysis	Al and its application +	DC9: (3L=3C) Fundamentas of Electromagnetic Theory	OE05 (3L, 3C)	OE09(3L, 3C)	BTP(10C) + 2 Oes(3-0 03)(Total: 6C)	
Introduction to Programming	ES4 (3L+2P, 4C) ES101 Basic Electronics	Circuits + DC3b:(2L=2C) Instrumentation and Measurement	1.	DC8: (3L=3C) digital Communications	OE06 (3L, 3C)	OE10 (3L, 3C)	(PBI: Optional i 7thsemeste	
Prof C1/ SM1 (1L, 1C) EC101 Introduction to Profession	11102	OE01 (3C)	OE02 (3C)	OE03 (3C)	HS3(2L, 2C) Ecology and Envirment	OE11 (3L, 3C)		
		NS5 (2L, 2C) Biology for Engineers	1					
		IT Workshop I (2P, 2 C) Matlab and Simulink,Pspice	CST, Labview	(2P, 2 C) Tanner Tool(Tspice), VHDL and	IT Workshop IV (2P, 2 C) Cadence, Silvaco, Xylink,Sentaurus Tcad			
ES2 Innovation Theory and PR1 Disci			oject (2C)	PR2 Discipline (optional)	Project (2C)			
PC1 Professiona Course (1C)	-	PC1 Professiona Course (1C)	-		PC3 Professional Davalonment		PC4 Professional Development Course (1C)	
14	21	22	24	18	18		16	
							14	

The Electives are floated as per report of different groups like Mckensy and different industry. It is also consider the feedback of placement cell.

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		OPEN EL	ECTIVES		
OPEN ELECTIVES to UG		PG Electives Ope	en to UG	PhD Elective Ope	n to PG/UG
Biomedical Instrumentation		Random Variables and Processes	Application of Signal and Image proceessing	Advanced Signal	Fuzzy logic and Neural Networks
application	Microwave Engineering	antena theory design	and Communication	analysis	Microwave Active Circuits
Radio Frequency Integrated Circuits Design	satelite communication	Digital VLSI design		Engineering Electromagnetics	
Computer Networks	Time frequency	Information theory and coading	VLSI Test and Testibility	Modelling	Selected Topics in Wireless Communication
Physics of Semiconductor Devices	VLSI Test and Testability	J 3	design		Application
Introduction to machine learning	& Design	technology development	Brain Computer Interface	Modern Power	Multidimensional Signal Processing
lmage Processing	Wavelet and Filter Bank	Autonomus vehicle and robotics	Internet of Things		
	Wireless Communications	Smart grid and future of energy sector	Energy storage technologies		
IC Fabrication	CMOS Memory	Electric vehicles and charging infrastructure	Hachnianac tar		
Nano photonics and plasmonics		VLSI Physical Design	Foundations of Cognitive Robotics		
fundamentals and application	Introduction to deep learning				
Sensors and Actuators	Multimedia processing				
Numerical	Computer Vision				
Design	Microwave and Communication				
Detection and Estimation Theory	Mixed-Mode Circuit Design				

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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)

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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)

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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) I 2025

(https://www.iiitdmj.ac.in/downloads/RH-2025.pdf)

### **CONTACT US**

Indian Institute of Information Technology Design & Manufacturing Jabalpur Dumna Airport Road, Dumna - 482005

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

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

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(https://www.facebook.com/iiitdm.jbp/)

(https://www.instagram.com/iiitdm\_jabalpur/)



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

प्रशासनिक शब्दबोध

स्वीकार्य Admissible

