

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)

Teaching and Examination Scheme 2025-26

Open Electives for Semester-V of B.Tech. Program

Sr. No.	Year	Sem.	Course Code	Course Name	Offering Department	Eligible Branch	Category	Teaching & Learning Scheme					Exam Hrs.	Marks			Credit	
								Classroom Instruction (CI) (in hours per semester)		Lab Instruction (LI) (in hours per semester)	Term Work (TW) and Self Learning (SL) (TW+ SL) (in hours per semester)			Total no. of Hours per semester	CIE	SEE		Total
								L	T	P	SL							
1	III	V	PHUL560	Introduction to Nanotechnology	Physics	ALL	OE	45	-	-	45	90	3	40	60	100	3	
2	III	V	CEUL560.1	Climate Change Science	CE	CS/AI/ DS/IOT/ IT/ EC/ EE/ ME	OE	45	-	-	45	90	3	40	60	100	3	
3	III	V	CEUL560.2	Road Safety and Management	CE	CS/AI/ DS/IOT/ IT/ EC/ EE/ ME	OE	45	-	-	45	90	3	40	60	100	3	
4	III	V	CSUL560.1	AI for Everyone	CS	CE/ EC/ EE/ ME	OE	45	-	-	45	90	3	40	60	100	3	
5	III	V	CSUL560.2	Web Development	CS	CE/ EC/ EE/ ME	OE	45	-	-	45	90	3	40	60	100	3	
6	III	V	EEUL560.1	Fundamental of Electrical Power Systems	EE	CS/AI/ DS/IOT/ IT/ CE/ EC/ ME	OE	45	-	-	45	90	3	40	60	100	3	
7	III	V	EEUL560.2	Energy Audit and Demand Side Management	EE	CS/AI/ DS/IOT/ IT/ CE/ EC/ ME	OE	45	-	-	45	90	3	40	60	100	3	
8	III	V	MEUL560.1	Fundamentals of Robotics	ME	CS/AI/ DS/IOT/ IT/ CE/ EC/ EE	OE	45	-	-	45	90	3	40	60	100	3	
9	III	V	MEUL560.2	Electric Vehicle Fundamentals	ME	CS/AI/ DS/IOT/ IT/ CE/ EC/ EE	OE	45	-	-	45	90	3	40	60	100	3	
10	III	V	ECUL560.1	Introduction to Sensors and Actuators	EC	CS/AI/ DS/IOT/ IT/ CE/ EE/ ME	OE	45	-	-	45	90	3	40	60	100	3	
11	III	V	ECUL560.2	Semiconductor Technology and Applications	EC	CS/AI/ DS/IOT/ IT/ CE/ EE/ ME	OE	45	-	-	45	90	3	40	60	100	3	
12	III	V	ECUL560.3	Fundamentals of Communication Systems	EC	CS/AI/ DS/IOT/ IT/ CE/ EE/ ME	OE	45	-	-	45	90	3	40	60	100	3	

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Open Electives for Semester-VI of B.Tech. Program

Sr. No.	Year	Sem.	Course Code	Course Name	Offering Department	Eligible Branch	Category	Teaching & Learning Scheme					Exam Hrs.	Marks			Credit	
								Classroom Instruction (CI) (in hours per semester)		Lab Instruction (L) (in hours per semester)	Term work/ Project/ Assignment Learning (SL) (TW+ SL) (in hours per semester)			Total no. of Hours per semester	CIE	SEE		Total
								L	T	P	SL							
1	III	VI	CHUL660	Energy and Environment Science	Chemistry	ALL	OE	45	-	-	45	90	3	40	60	100	3	
2	III	VI	MAUL660	Advanced Optimization Techniques	Mathematics	ALL	OE	45	-	-	45	90	3	40	60	100	3	
3	III	VI	HSUL660	Critical Thinking	English	ALL	OE	45	-	-	45	90	3	40	60	100	3	
4	III	VI	CEUL660.1	Remote Sensing and GIS Techniques	CE	CS/AI/ DS/IOT/ IT/ EC/ EE/ ME	OE	45	-	-	45	90	3	40	60	100	3	
5	III	VI	CEUL660.2	Solid Waste Management	CE	CS/AI/ DS/IOT/ IT/ EC/ EE/ ME	OE	45	-	-	45	90	3	40	60	100	3	
6	III	VI	CSUL660.1	Cybersecurity and Ethical Hacking	CS	CE/ EC/ EE/ ME	OE	45	-	-	45	90	3	40	60	100	3	
7	III	VI	CSUL660.2	Principles of Programming Languages	CS	CE/ EC/ EE/ ME	OE	45	-	-	45	90	3	40	60	100	3	
8	III	VI	EEUL660.1	Elements of Smart Grid System	EE	CS/AI/ DS/IOT/ IT/ CE/ EC/ ME	OE	45	-	-	45	90	3	40	60	100	3	
9	III	VI	EEUL660.2	Non-conventional Energy Sources	EE	CS/AI/ DS/IOT/ IT/ CE/ EC/ ME	OE	45	-	-	45	90	3	40	60	100	3	
10	III	VI	MEUL660.1	Energy Management	ME	CS/AI/ DS/IOT/ IT/ CE/ EC/ EE	OE	45	-	-	45	90	3	40	60	100	3	
11	III	VI	MEUL560.2	Introduction to 3D Printing	ME	CS/AI/ DS/IOT/ IT/ CE/ EC/ EE	OE	45	-	-	45	90	3	40	60	100	3	
12	III	VI	ECUL660.1	Microcontrollers and Embedded Systems	EC	CS/AI/ DS/IOT/ IT/ CE/ EE/ ME	OE	45	-	-	45	90	3	40	60	100	3	
13	III	VI	ECUL660.2	Nanoelectronics Technology and Devices	EC	CS/AI/ DS/IOT/ IT/ CE/ EE/ ME	OE	45	-	-	45	90	3	40	60	100	3	
14	III	VI	ECUL660.3	Antenna Theory and Design	EC	CS/AI/ DS/IOT/ IT/ CE/ EE/ ME	OE	45	-	-	45	90	3	40	60	100	3	