

**UNIVERSITY DEPARTMENTS , RTU, KOTA**

**LIST OF MINOR SPECIALIZATION WITH COURSES**

<b>Department offering Specialiazation</b>	<b>Year/ Sem</b>	<b>Course Code</b>	<b>Paper Code</b>	<b>Subject Name</b>	<b>Type</b>	<b>COR E/ELECTIVE</b>	<b>Group</b>	<b>Minor.Spec.</b>	<b>Max Marks Internal</b>	<b>Max Marks External</b>	<b>Credit/ Unit</b>
<b>Electrical Engineering</b>	4 Sem.	EEL1M1	EEL1M1	Basic Electrical Circuits or its equivalent MOOC	TH	ELECTIVE	12	<b>Electrical Engineering</b>	50	100	4
<b>Electrical Engineering</b>	4 Sem.	EEL1M2	EEL1M2	Electrical Machines or its equivalent MOOC	TH	ELECTIVE	13	<b>Electrical Engineering</b>	50	100	4
<b>Electrical Engineering</b>	5 Sem.	EEL1M3	EEL1M3	Basic Electronics or its equivalent MOOC	TH	ELECTIVE	14	<b>Electrical Engineering</b>	50	100	4
<b>Electrical Engineering</b>	5 Sem.	EEL1M4	EEL1M4	Fundamental of Power Electronics or its equivalent MOOC	TH	ELECTIVE	14	<b>Electrical Engineering</b>	50	100	4
<b>Electrical Engineering</b>	6 Sem.	EEL1M5	EEL1M5	Physics of Renewable Energy Systems or its equivalent MOOC	TH	ELECTIVE	12	<b>Electrical Engineering</b>	50	100	4
<b>Electrical Engineering</b>	6 Sem.	EEL1M6	EEL1M6	Introduction to Smart Grid or its equivalent MOOC	TH	ELECTIVE	12	<b>Electrical Engineering</b>	50	100	4
<b>Electrical Engineering</b>	7 Sem.	EEL1M7	EEL1M7	Power System Protection or its equivalent MOOC	TH	ELECTIVE	11	<b>Electrical Engineering</b>	50	100	4
<b>Electrical Engineering</b>	7 Sem.	EEL1M8	EEL1M8	Power System Analysis or its equivalent MOOC	TH	ELECTIVE	11	<b>Electrical Engineering</b>	50	100	4
<b>Electrical Engineering</b>	7 Sem.	EED414	EED414	Mini Project	PR	CORE	20	<b>Electrical Engineering</b>	50	25	5

<b>Electrical Engineering</b>	8 Sem.	EEL1M10	EEL1M10	Power System Engineering	TH	ELECTIVE	6	<b>Electrical Engineering</b>	50	100	4
<b>Electrical Engineering</b>	8 Sem.	EEL1M9	EEL1M9	Microprocessors and Interfacing	TH	ELECTIVE	6	<b>Electrical Engineering</b>	50	100	4
<b>Mechanical Engineering</b>	4 Sem.	MEL416	MEL416	Project Management / Equivalent MOOC	TH	CORE	13	<b>BUSINESS ADMINISTRATION</b>	50	100	3
<b>Mechanical Engineering</b>	4 Sem.	MEL417	MEL417	Marketing Management / Equivalent MOOC	TH	CORE	14	<b>BUSINESS ADMINISTRATION</b>	50	100	3
<b>Mechanical Engineering</b>	5 Sem.	MEL420	MEL420	Supply and Operations Management / Equivalent MOOC	TH	CORE	13	<b>BUSINESS ADMINISTRATION</b>	50	100	3
<b>Mechanical Engineering</b>	6 Sem.	MEL422	MEL422	Financial Management / Equivalent MOOC	TH	CORE	12	<b>BUSINESS ADMINISTRATION</b>	50	100	3
<b>Mechanical Engineering</b>	7 Sem.	MEL424	MEL424	Human Resource Management / Equivalent MOOC	TH	CORE	10	<b>BUSINESS ADMINISTRATION</b>	50	100	3
<b>Mechanical Engineering</b>	7 Sem.	MED413	MED413	Minor Project	PR	CORE	15	<b>BUSINESS ADMINISTRATION</b>	50	25	5
<b>Mechanical Engineering</b>	4 Sem.	MEL431	MEL431	Fundamental of Thermal Systems / Equivalent MOOC	TH	CORE	17	<b>ENERGY ENGINEERING</b>	50	100	3
<b>Mechanical Engineering</b>	4 Sem.	MEL432	MEL432	Renewable Energy Technologies / Equivalent MOOC	TH	CORE	18	<b>ENERGY ENGINEERING</b>	50	100	3

<b>Mechanical Engineering</b>	5 Sem.	MEL433	MEL433	Design of Heat Exchangers / Equivalent MOOC	TH	COR E	15	<b>ENERGY ENGINEERING</b>	50	100	3
<b>Mechanical Engineering</b>	6 Sem.	MEL436	MEL436	Heating, Ventilation and Airconditioning / Equivalent MOOC	TH	COR E	14	<b>ENERGY ENGINEERING</b>	50	100	3
<b>Mechanical Engineering</b>	7 Sem.	MEL438	MEL438	Green Energy Systems / Equivalent MOOC	TH	COR E	12	<b>ENERGY ENGINEERING</b>	50	100	3
<b>Mechanical Engineering</b>	7 Sem.	MED415	MED415	Minor Project	PR	COR E	16	<b>ENERGY ENGINEERING</b>	50	25	5
<b>Electronics and Communication Engineering</b>	4 Sem.	EIL291	EIL291	Industrial Instrumentation	TH	COR E	16	<b>Electronics Instrumentation and Control (For Circuit Branches)</b>	50	100	3
<b>Electronics and Communication Engineering</b>	4 Sem.	EIP291	EIP291	Electronics Instrumentation Lab	PR	COR E	17	<b>Electronics Instrumentation and Control (For Circuit Branches)</b>	50	25	1
<b>Electronics and Communication Engineering</b>	5 Sem.	EIL391	EIL391	Biomedical Engineering & Technology	TH	COR E	16	<b>Electronics Instrumentation and Control (For Circuit Branches)</b>	50	100	3

<b>Electronics and Communication Engineering</b>	5 Sem.	EIP391	EIP391	Biomedical Engineering & Technology Lab	PR	COR E	17	<b>Electronics Instrumentation and Control (For Circuit Branches)</b>	50	25	1
<b>Electronics and Communication Engineering</b>	6 Sem.	EIL392	EIL392	Modern Control System	TH	COR E	16	<b>Electronics Instrumentation and Control (For Circuit Branches)</b>	50	100	3
<b>Electronics and Communication Engineering</b>	6 Sem.	EIP392	EIP392	Modern Control System Lab	PR	COR E	17	<b>Electronics Instrumentation and Control (For Circuit Branches)</b>	50	25	1
<b>Electronics and Communication Engineering</b>	7 Sem.	EIL491	EIL491	Process Control System	TH	COR E	14	<b>Electronics Instrumentation and Control (For Circuit Branches)</b>	50	100	3
<b>Electronics and Communication Engineering</b>	7 Sem.	EIP491	EIP491	Process Control Lab	PR	COR E	15	<b>Electronics Instrumentation and Control (For Circuit Branches)</b>	50	25	1

<b>Electronics and Communication Engineering</b>	7 Sem.	EID414	EID414	Minor Project	PR	COR E	16	<b>Electronics &amp; Communication Engineering (For Circuit Branches)</b>	50	25	4
<b>Electronics and Communication Engineering</b>	4 Sem.	EIL292	EIL292	Electronics Devices	TH	COR E	18	<b>Electronics Instrumentation and Control (For Non-Circuit Branches)</b>	50	100	3
<b>Electronics and Communication Engineering</b>	4 Sem.	EIP292	EIP292	Electronics Devices Lab	PR	COR E	19	<b>Electronics Instrumentation and Control (For Non-Circuit Branches)</b>	50	25	1
<b>Electronics and Communication Engineering</b>	5 Sem.	EIL393	EIL393	Digital System Design	TH	COR E	18	<b>Electronics Instrumentation and Control (For Non-Circuit Branches)</b>	50	100	3
<b>Electronics and Communication Engineering</b>	5 Sem.	EIP393	EIP393	Digital System Design Lab	PR	COR E	19	<b>Electronics Instrumentation and Control (For Non-Circuit Branches)</b>	50	25	1



<b>Electronics and Communication Engineering</b>	4 Sem.	ECL291	ECL291	Communication Systems	TH	ELECT	16	<b>Electronics &amp; C</b>	50	100	3
<b>Electronics and Communication Engineering</b>	4 Sem.	ECL292	ECL292	Control Systems	TH	ELECT	16	<b>Electronics &amp; C</b>	50	100	3
<b>Electronics and Communication Engineering</b>	4 Sem.	ECP291	ECP291	Communication Lab	PR	ELECT	17	<b>Electronics &amp; C</b>	50	25	1
<b>Electronics and Communication Engineering</b>	4 Sem.	ECP292	ECP292	Control Lab	PR	ELECT	17	<b>Electronics &amp; C</b>	50	25	1
<b>Electronics and Communication Engineering</b>	5 Sem.	ECL391	ECL391	Digital Signal Processing	TH	CORE	16	<b>Electronics &amp; C</b>	50	100	3
<b>Electronics and Communication Engineering</b>	5 Sem.	ECP391	ECP391	Digital Signal Processing Lab	PR	CORE	17	<b>Electronics &amp; C</b>	50	25	1
<b>Electronics and Communication Engineering</b>	6 Sem.	ECL392	ECL392	RF & Microwave Engineering	TH	CORE	16	<b>Electronics &amp; C</b>	50	100	3
<b>Electronics and Communication Engineering</b>	6 Sem.	ECP392	ECP392	Microwave Lab	PR	CORE	17	<b>Electronics &amp; C</b>	50	25	1
<b>Electronics and Communication Engineering</b>	7 Sem.	ECL491	ECL491	VLSI Design	TH	CORE	12	<b>Electronics &amp; C</b>	50	100	3
<b>Electronics and Communication Engineering</b>	7 Sem.	ECP491	ECP491	VLSI Design Lab	PR	CORE	13	<b>Electronics &amp; C</b>	50	25	1
<b>Electronics and Communication Engineering</b>	7 Sem.	ECD414	ECD414	Minor project	PR	CORE	17	<b>Electronics &amp; C</b>	50	25	4

<b>Electronics and Communication Engineering</b>	4 Sem.	ECL293	ECL293	Electronics Devices	TH	COR E	18	<b>Electronics &amp; Communication Engineering (For Non-Circuit Branches)</b>	50	100	3
<b>Electronics and Communication Engineering</b>	4 Sem.	ECP293	ECP293	Electronics Devices Lab	PR	COR E	19	<b>Electronics &amp; Communication Engineering (For Non-Circuit Branches)</b>	50	25	1
<b>Electronics and Communication Engineering</b>	5 Sem.	ECL393	ECL393	Digital System Design	TH	COR E	18	<b>Electronics &amp; Communication Engineering (For Non-Circuit Branches)</b>	50	100	3
<b>Electronics and Communication Engineering</b>	5 Sem.	ECP393	ECP393	Digital System Design Lab	PR	COR E	19	<b>Electronics &amp; Communication Engineering (For Non-Circuit Branches)</b>	50	25	1



<b>Electronics and Communication Engineering</b>	6 Sem.	ECL394	ECL394	Digital Signal Processing	TH	COR E	18	<b>Electronics &amp; Communication Engineering (For Non-Circuit Branches)</b>	50	100	3
<b>Electronics and Communication Engineering</b>	6 Sem.	ECP394	ECP394	Digital Signal Processing Lab	PR	COR E	19	<b>Electronics &amp; Communication Engineering (For Non-Circuit Branches)</b>	50	25	1
<b>Electronics and Communication Engineering</b>	7 Sem.	ECL491	ECL491	VLSI Design	TH	COR E	14	<b>Electronics &amp; Communication Engineering (For Non-Circuit Branches)</b>	50	100	3
<b>Electronics and Communication Engineering</b>	7 Sem.	ECP491	ECP491	VLSI Design Lab	PR	COR E	15	<b>Electronics &amp; Communication Engineering (For Non-Circuit Branches)</b>	50	25	1

<b>Electronics and Communication Engineering</b>	7 Sem.	ECD415	ECD415	Minor project	PR	COR E	18	<b>Electronics &amp; Communication Engineering (For Non-Circuit Branches)</b>	50	25	4
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