

Kolhapur Institute of Technology's
**COLLEGE OF ENGINEERING
(AUTONOMOUS)**

Gokul Shirgaon, Kolhapur



KOLHAPUR INSTITUTE
OF TECHNOLOGY'S
**COLLEGE OF
ENGINEERING**
(AUTONOMOUS),
KOLHAPUR

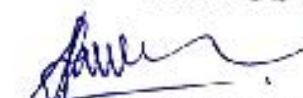
Curriculum Structure

For

**B. Tech Electronics and Telecommunication
Engineering**

Academic Year 2022-2023

Under Graduate Programme


Prof. A. R. Nigavekar
Head




Dr. A. R. Thorvat
Dean Academics

Teaching and Evaluation scheme for

Second Year B. Tech. Programme in Electronics & Telecommunication Engineering Semester-III

Sr. No	Curriculum Component	Course Code	Course	Teaching Scheme			Evaluation Scheme				
				L	T	P	Credit	Component	Marks		
									Max	Min for Passing	
1	ES	UECC 0301	Engineering Mathematics III	3	1	0	4	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
2	PC	UECC 0302	Analog Circuits –I	3	0	0	3	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
3	PC	UECC 0303	Digital System	3	0	0	3	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
4	PC	UECC 0304	Network Analysis	3	1	0	4	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
5	PC	UECC 0305	Electronics Instrumentation & Measurement	3	0	0	3	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
6	PC	UECC 0306	Analog Circuits –I Lab	0	0	2	1	ISE	25	10	
								ESE (POE)	50	10	
7	PC	UECC 0307	Digital System Lab	0	0	2	1	ISE	25	10	
								ESE (POE)	50	20	
8	PC	UECC 0308	Electronics Instrumentation & Measurement Lab	0	0	2	1	ISE	25	10	
9	PC	UECC 0309	Object Oriented Programming Lab	1	0	2	2	ISE	25	10	
								ESE (POE)	50	20	
10	BS	UECA 0301	Environmental Studies (Audit Course)	2	0	0	0	ESE	100	40	
Total Contact Hrs.: 28			Total	18	2	08	22	500+250+Audit Course			

Teaching and Evaluation scheme for Second Year B. Tech. Programme in Electronics & Telecommunication Engineering Semester-IV												
Sr. No	Curriculum Component	Course Code	Course	Teaching Scheme			Evaluation Scheme					
				L	T	P	Credit	Component	Marks			
									Max	Min for Passing		
1	PC	UECC 0401	Analog Circuits –II	3	0	0	3	ISE-I	10	20	40	
								ISE-II	10			
								MSE	30			
								ESE	50	20		
2	PC	UECC 0402	Linear Integrated Circuits	3	0	0	3	ISE-I	10	20	40	
								ISE-II	10			
								MSE	30			
								ESE	50	20		
3	ES	UECC 0403	Electromagnetic Engineering	3	1	0	4	ISE-I	10	20	40	
								ISE-II	10			
								MSE	30			
								ESE	50	20		
4	PC	UECC 0404	Analog and Digital Communication	4	0	0	4	ISE-I	10	20	40	
								ISE-II	10			
								MSE	30			
								ESE	50	20		
5	ES	UECC 0405	Data Structures	3	0	0	3	ISE-I	10	20	40	
								ISE-II	10			
								MSE	30			
								ESE	50	20		
6	PC	UECC 0406	Analog Circuits-II Lab	0	0	2	1	ISE	25	10		
								ESE (POE)	50	20		
7	PC	UECC 0407	Linear integrated circuits Lab	0	0	2	1	ISE	25	10		
								ESE (POE)	50	20		
8	PC	UECC 0408	Analog and Digital Communication Lab	0	0	2	1	ISE	25	10		
								ESE (OE)	25	10		
9	ES	UECC 0409	Data Structures Lab	0	0	2	1	ISE	25	10		
10	PW	UECC 0410	Mini Project-I	0	0	2	1	ISE	25	10		
11	BS	UECA 0401	Constitution of India (Audit Course)	2	0	0	0	ESE	100	40		
Total Contact Hrs. : 29				Total		18	1	10	22	500+250+Audit Course		

Teaching and Evaluation scheme for												
Third Year B. Tech. Programme in Electronics & Telecommunication Engineering Semester-V												
Sr. No	Curriculum Component	Course Code	Course	Teaching Scheme				Evaluation Scheme				
				L	T	P	Credit	Component	Marks			
									Max	Min for Passing		
1	PC	UECC 0501	Antenna and Wave Propagation	4	0	0	4	ISE-I	10	20	40	
								ISE-II	10			
								MSE	30			
								ESE	50	20		
2	PC	UECC 0502	Control System	3	1	0	4	ISE-I	10	20	40	
								ISE-II	10			
								MSE	30			
								ESE	50	20		
3	PC	UECC 0503	Microcontroller	4	0	0	4	ISE-I	10	20	40	
								ISE-II	10			
								MSE	30			
								ESE	50	20		
4	PC	UECC 0504	Antenna and Wave propagation Lab	0	0	2	1	ISE	25	10		
								ESE (POE)	50	20		
5	PC	UECC 0505	Microcontroller Lab	0	0	2	1	ISE	25	10		
								ESE(POE)	50	20		
6	PC	UECC 0506	Model based Design Lab	0	0	2	1	ISE	25	10		
								ESE(OE)	25	10		
7	PW	UECC 0507	Mini Project -II	0	0	2	1	ISE	50	20		
8	PE	UECE 05**	Program Elective I	3	0	0	3	ISE-I	10	20	40	
								ISE-II	10			
								MSE	30			
								ESE	50	20		
9	OE	UECO 05**	Open Elective-I	3	0	0	3	ISE-I	10	20	40	
								ISE-II	10			
								MSE	30			
								ESE	50	20		
10	ES	UECA 0501	Web Technologies (Audit Course)	2	0	0	0	ESE	100		40	
Total Contact Hrs. : 28			Total	19	1	08	22	500+250+Audit Course				

Teaching and Evaluation scheme for Third Year B. Tech. Programme in Electronics & Telecommunication Engineering Semester-VI											
Sr. No	Curriculum Component	Course Code	Course	Teaching Scheme				Evaluation Scheme			
				L	T	P	Credit	Component	Marks		
									Max	Min for Passing	
1	PC	UECC 0601	Embedded Systems	4	0	0	4	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
2	PC	UECC 0602	VLSI Design	4	0	0	4	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
3	PC	UECC 0603	Signals and Systems	3	1	0	4	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
4	PC	UECC 0604	Embedded Systems Lab	0	0	2	1	ISE	25	10	
								ESE (POE)	50	20	
5	PC	UECC 0605	VLSI Design Lab	0	0	2	1	ISE	25	10	
								ESE (POE)	50	20	
6	PC	UECC 0606	Signal Analysis and Interpretation Lab	0	0	2	1	ISE	25	10	
								ESE (OE)	50	20	
7	PW	UECC 0607	Mini-Project-III	0	0	2	1	ISE	25	10	
8	PE	UECE 06**	Program Elective –II	3	0	0	3	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
9	OE	UECO 06**	Open Elective-II	3	0	0	3	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
11	ES	UECA 0601	Design Thinking (Audit Course)	2	0	0	0	ESE	100	40	
Total Contact hrs. : 28			Total	19	1	08	22	500+250+Audit Course			

Program Elective I	
Course code	Course Name
UECE0501	Optical Fibre Communication
UECE0502	Computer Architecture and Organization
UECE0503	Multimedia Engineering
UECE0504	Mechatronics

Program Elective II	
Course code	Course Name
UECE0601	Information Theory and Coding
UECE0602	Biomedical Instrumentation
UECE0603	Automotive Electronics
UECE0604	Operating System

Open Elective-I	
Course code	Course Name
UECO0501	Exploring ARDUINO
Open Elective-II	
UECO0601	Medical Electronics

Teaching and Evaluation Scheme for											
Final Year B. Tech. Programme in Electronics & Telecommunication Engineering Semester-VII											
Sr. No	Curriculum Component	Course Code	Course	Teaching Scheme				Evaluation Scheme			
				L	T	P	Credit	Component	Marks		
									Max	Min for Passing	
1	PC	UECC 0701	Power Electronics	3	0	0	3	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
2	PC	UECC 0702	Computer Communication Networks	3	0	0	3	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
3	PC	UECC 0703	RF &Microwave Engineering	3	0	0	3	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
4	PC	UECC 0704	Digital Signal Processing	3	0	0	3	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
5	PC	UECC 0705	Power Electronics Lab	0	0	2	1	ISE	25	10	
								ESE(POE)	25	10	
6	PC	UECC 0706	Computer Communication Networks Lab	0	0	2	1	ISE	25	10	
								ESE (POE)	25	10	
7	PC	UECC 0707	RF & Microwave Engineering Lab	0	0	2	1	ISE	25	10	
								ESE (OE)	25	10	
8	PW	UECC 0708	Project Phase-I	0	0	4	2	ISE-I	50	20	
								ISE-II	50	20	
9	PE	UECE 07**	Program Elective-III	3	0	0	3	ISE-I	10	20	40
								ISE-II	10		
								MSE	30		
								ESE	50	20	
10	ES	UECA 0701	Industry 4.0 (Audit Course)	3	0	0	0	ESE	100	40	
Total Contact hrs. : 28			Total	18	0	10	20	500+250+Audit Course			

Teaching and Evaluation Scheme for

Final Year B. Tech. Programme in Electronics & Telecommunication Engineering Semester-VIII

Sr. No	Curriculum Component	Course Code	Course	Teaching Scheme				Evaluation Scheme				
				L	T	P	Credit	Component	Marks			
									Max	Min for Passing		
1	PW	UECC 0801	Internship	0	0	4	2	ISE-I	50	20		
								ISE-II	50	20		
2	PW	UECC 0802	Project Phase-II	0	0	8	4	ISE-I	50	20		
								ISE-II	50	20		
								ESE (OE)	100	40		
3	PE	UECE 08**	Program Elective-IV*	3	0	0	3	ISE-I	10	20	40	
								ISE-II	10			
								MSE	30	20		
								ESE	50	20		
4	PE	UECE 08**	Program Elective-V*	3	0	0	3	ISE-I	10	20	40	
								ISE-II	10			
								MSE	30	20		
								ESE	50	20		
Total Contact hrs. : 18			Total	6	0	12	12	200+300				

Program Elective III	
Course code	Course Name
UECE0701	Digital Image Processing
UECE0702	CMOS VLSI
UECE0703	Real Time Systems
UECE0704	Cyber Security



Program Elective IV	
Course code	Course Name
UECE0801	System on Chip
UECE0802	Satellite Communication
UECE0803	Cloud Computing & IoT
UECE0804	Machine Learning

Program Elective V	
Course code	Course Name
UECE0805	Wireless Mobile Communication
UECE0806	Embedded Linux
UECE0807	Wireless Sensor Network
UECE0808	Control System Design
UECE0809	Deep Learning
UECE0810	Control System Design MSC