



D Y PATIL

DEEMED TO BE

UNIVERSITY

SCHOOL *of* ENGINEERING
& MANAGEMENT
KOLHAPUR

**F.Y. B. Tech. Electronics &
Telecommunication Engineering**

Structure

w. e. f. A.Y.: 2024-25

F.Y. B. Tech Electronics & Telecommunication Engineering Structure 2024-25

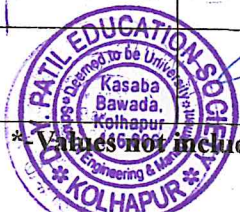
SEMESTER – I												
Course Category	Course Type	Course Name	Credits	Teaching Scheme			Theory			Practical		Total Marks
				L	P	T	ISE	MSE	ESE	INT	OE/ PoE	
Basic Sciences	BSC	Linear Algebra & Calculus	4	3	-	1	20	30	50	25	-	125
	BSC	Applied Physics	4	3	2	-	20	30	50	25	-	125
Engineering Science	ESC	Problem Solving through Programming	4	3	2	-	20	30	50	25	-	125
	ESC	Digital Logic Design	4	3	2	-	20	30	50	25	-	125
Vocational Skills Enhancement Course	VSEC	Design Thinking Through Innovation	2	1	2	-	25	-	-	25	-	50
Indian Knowledge System	IKS	The Outreach of Indian Knowledge System	2	2	-	-	20	30	-	-	-	50
Co-Curricular Activities	CCA	Liberal Learning	2	-	4	-	-	-	-	50	-	50
Mandatory Course	MC	Finishing School Training I	-	3	-	-	50	-	-	-	-	Grade
		Rural/Social Internship	-	-	-	-	-	-	-	50	-	Grade
		Total	22	15	12	1	175	150	200	225	-	650
SEMESTER – II												
Basic Sciences	BSC	Differential Equations & Numerical Techniques	4	3	-	1	20	30	50	25	-	125
	BSC	Applied Chemistry	4	3	2	-	20	30	50	25	-	125
Engineering Science	ESC	Generative AI	4	3	2	-	20	30	50	25	-	125
Ability Enhancement Course	AEC	Professional Communication	2	1	2	-	25	-	-	25	-	50
Co-Curricular Activities	CCA	Liberal Learning	2	-	4	-	50	-	-	-	-	50
Program Core Courses	PCC	Basics of Analog Electronics	2	2	-	-	-	-	50	-	-	50
Vocational Skills Enhancement Cours	VSEC	Python Programming	2	1	2	-	25	-	-	25	-	50
Mandatory Course	MC	Capstone Project	-	-	-	-	-	-	-	50	-	Grade
		Finishing School Training - II	-	3	-	-	50	-	-	-	-	Grade
		Total	20	13	12	1	210	90	200	175	-	575

D. Y. Patil College of Engineering and Technology Kolhapur
Department of Electronics & Telecommunication Engineering

SEMESTER-III

SEMESTER-III													
CourseCode	CourseCategory	CourseType	CourseName	TeachingScheme				Theory			Practical		Total Marks
				Credits	L	P	T	ISE	MS E	ESE	INT	OE/ PoE	
23ETCU3P01	Program Core Courses	PCC	ElectronicsCircuit AnalysisandDesign-I	3	3	-	-	20	30	50	-	-	100
23ETCU3P02			Analogand Digital Communication	3	3	-	-	20	30	50	-	-	100
23ETCU3P03			Applied Mathematics	2	2	-	-	20	30	50	-	-	100
23ETCU3P04			ElectronicsCircuit AnalysisandDesignLab	1	-	2	-	-	-	-	25	25	50
23ETCU3P05			Analogand Digital CommunicationLab	1	-	2	-	-	-	-	25	25	50
23ETCU3F06	Comm. Engg. Project(CEP)/Field Project (FP)	CEP/FP	SocietybasedMini- Project	2	-	4	-	-	-	-	50	-	50
23ETCU3M07	Multidisciplinary Minor	MDM-1	Digital Electronics	2	2	-	-	-	-	50	-	-	50
23ETCU3V08	Value Education Course	VEC	Personal Valuesand Ethics	2	2	-	-	20	30	-	-	-	50
23ETCU3O09	Open Elective Course	OEC-1	Basics of Arduino (ODL Only) (Theory)	3	3	-	-	20	30	50			100
23ETCU3O10	Open Elective Course	OEC-1	Basics of Arduino (ODL Only) (Practical)	1	-	2	-	-	-	-	25		25
23ETCU3H11	Humanities Social Science and Management	Entrepreneurship/ Economics/ Management course	FinancialManagement	2	1		-	25	-	-	25	-	50
23ETCU3D12	AUDIT Course	AC	FinishingSchoolTrainingIII	Audit	3*	-	-	50	-	-	-	-	Grade
23ETCU3C13	Co-Curricular Activities	CCA	LiberalLearning-I	Audit	2 [#]								Grade
23ETCU3C14			LiberalLearning-II		2 [#]								
23ETCU3C15			LiberalLearning-III		2 [#]	-	-	50	-	-	-	-	
			Total	22	22	10		225	150	250	150	50	725

* Values not included in total, #-2 contact hrs per club, Min Marks for passing: 40% of total marks of individual course



SEMESTER- IV

Course Code	Course Category	Course Type	Course Name	Teaching Scheme				Theory			Practical		
				Credits	L	P	T	ISE	MSE	ESE	INT	OE/PoE	
23ETCU4P01	Program Core Courses	PCC	Electronics Circuits Analysis & Design – II	3	3	-	-	20	30	50	-	-	100
23ETCU4P02			Signal & Systems	3	3	-	-	20	30	50	-	-	100
23ETCU4P03			Instrumentation & Control Systems	2	2	-	-	20	30	50	-	-	100
23ETCU4P04			Electronics Circuits Analysis & Design Lab. II	1		2	-	-	-	-	25	25	50
23ETCU4P05			Signal & Systems Lab	1		2	-	-	-	-	25	25	50
23ETCU4M06	Multidisciplinary Minor	MDM-2	Microcontrollers(CISC)	2	2	-	-	-	-	50	-	-	50
23ETCU4V07	Value Education Course	VEC (Environmental Study)	Environmental Study	2	2	-	-	-	-	50	-	-	50
23ETCU4H08	Humanities Social Science and Management	Entrepreneurship/Economics/Management course	Industrial Management & Startups	2	2	-	-	20	30	-	-	-	50
23ETCU4A09	Ability Enhancement course	AEC	Electronics Workshop Practice	2	1	2	-	-	-	-	25	25	50
23ETCU4O10	Open Elective Course	OEC-II	Electronic Automation	2	2	-	-	-	-	50	-	-	50
23ETCU4N11	Vocational Skills Enhancement Course	VSEC	Model Based Programming & Simulation	2	1	2	-	25	-	-	25	-	50
23ETCU4D12	Mandatory Course	MC	Finishing School Training IV	Audit	2*	-	-	50	-	-	-	-	Grade
23ETCU4C13	Co-Curricular Activities	CCA	Liberal Learning-I	Audit	2 [#]	-	-	50	-	-	-	-	Grade
23ETCU4C14			Liberal Learning-II		2 [#]								
23ETCU4C15			Liberal Learning-III		2 [#]								
			Total	22	22	8	-	205	120	300	100	75	700
23ETCU4Z01	Honors Courses/Double (Minor)	Honors Paper- I (Optional)	Honors Paper- I Electronics equipment integration and prototype building	04	3	2	-	20	30	50	-	25	125

* - Values not included in total, # - 2 contact hrs per club





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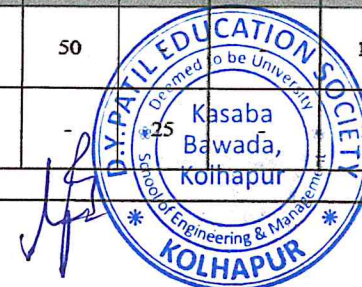
Teaching and Evaluation Scheme from Year 2024-25 (as per NEP-2020)

Department of Electronics and Telecommunication Engineering

T.Y B.Tech SEMESTER-V

Course Code	Course Category	Course Type	Course Name	Teaching Scheme				Theory			Practical		Total Marks
				Credits	L	P	T	ISE	MSE	ESE	INT	OE/PoE	
24ETCU5P01	Program Core Courses	PCC	Digital System Design	3	3	-	-	20	30	50	-	-	100
24ETCU5P02			Linear Integrated circuit	3	3	-	-	20	30	50	-	-	100
24ETCU5P03			Electromagnetic and Antenna Wave Propagation	3	3	-	-	20	30	50	-	-	100
24ETCU5P04			Digital System Design Lab	1	-	2	-	-	-	-	25	25	50
24ETCU5P05			Linear Integrated circuit Lab	1	-	2	-	-	-	-	25	25	50
24ETCU5P06			Electromagnetic and Antenna Wave Propagation Lab	1	-	2	-	-	-	-	25	-	25
24ETCU5M07	Multidisciplinary Minor	MDM-3	Microcontrollers(RISC)	3	3	-	-	20	30	50	-	-	100
24ETCU5M08			Microcontrollers(RISC)-Lab	1	-	2	-	-	-	-	25	-	25
24ETCU5O09	Open Elective Course	OCE-III	Biomedical Instrumentation	2	2	-	-	-	-	50	-	-	50
24ETCU5O10			Industrial Automation-II										
24ETCU5O11													
24ETCU5E12	Professional Elective	PEC 1	Information theory & coding	4	4	-	-	20	30	50	-	-	100
24ETCU5E13			Microelectronics										
24ETCU5E14			Network Analysis										
24ETCU5E15													
24ETCU5D16	Mandatory Course	MC	Finishing School Training V	Audit	3*	-	-	50	-	-	-	-	Grade
24ETCU5C17	Co-Curricular Activities	CCA	Liberal Learning-I	Audit	2#	-	-	50	-	-	-	-	Grade
24ETCU5C18			Liberal Learning-II										
24ETCU5C19			Liberal Learning-III										
24ETCU5C20			Liberal Learning-IV										
Total				22	18	8	-	200	150	300	100	50	700
24ETCUSZ03	Honors Courses/Double (Minor)	HC (Optional)	Honors Paper- II (ODL only) Semiconductor device modelling and simulation	3	2	-	-	20	30	50	-	-	100
24ETCUSZ04	Honors Courses/Double (Minor)	HC (Optional)	Honors Paper- II (ODL only) Semiconductor device modelling and simulation Lab	1	-	-	-	-	-	-	-	-	25
*-Values not included in total, #2 contact hrs per club, Min Marks for passing: 40% of total marks of individual course													

*-Values not included in total, #2 contact hrs per club, Min Marks for passing: 40% of total marks of individual course



	D.Y. Patil Education Society, Kolhapu (Deemed to be University) School of Engineering & Management Kasaba Bawada, Kolhapur												
	Teaching and Evaluation Scheme from Year 2023-24 (as per NEP-2020)												
	Department of Electronics and Telecommunication Engineering												
T.Y B.Tech SEMESTER-VI													
Course Code	Course Category	Course Type	Course Name	Teaching Scheme				Theory			Practical		Total Marks
				Credits	L	P	T	ISE	MSE	ESE	INT	OE/PoE	
24ETCU6P01	Program Core Courses	PCC	Microprocessor and Microcontroller	3	3	-	-	20	30	50	-	-	100
24ETCU6P02			Digital Signal Processing	3	3	-	-	20	30	50	-	-	100
24ETCU6P03			Computer Architecture and Organization	2	2	-	-	20	30	50	-	-	100
24ETCU6P04			Microprocessor and Microcontroller Lab.	1	-	2	-	-	-	-	25	25	50
24ETCU6P05			Digital Signal Processing Lab.	1	-	2	-	-	-	-	25	25	50
24ETCU6M06	Multidisciplinary Minor	MDM-4	Electronic Measurement & Control System	2	2	-	-	-	-	50	-	-	50
24ETCU6E07	Professional Elective	PEC-2	Power Electronics	4	4	-	-	20	30	50	-	-	100
24ETCU6E08			CMOS VLSI design										
24ETCU6E09			Wireless Sensor Network										
24ETCU6E10		PEC-3	Cellular and Mobile Communication	3	3	-	-	20	30	50	-	-	100
24ETCU6E11			Fiber Optic Communication										
24ETCU6E12			Microwave Theory										
24ETCU6E13	Professional Elective Lab	PEC-3 Lab	Cellular and Mobile Communication Lab	1	-	2	-	-	-	25	-	25	
24ETCU6E14			Fiber Optic Communication Lab										
24ETCU6E15			Microwave Theory Lab										
24ETCU6N16	Vocational Skills Enhancement Course	VSEC	Data Structures & Algorithms using C++	2	1	2	-	25	-	-	-	25	50
24ETCU6D17	Mandatory Course	MC	Finishing School Training VI	Audit	3*	-	-	50	-	-	-	-	Grade
24ETCU6C18	Co-Curricular Activities	CCA	Liberal Learning-I	Audit	2#	-	-	50	-	-	-	-	Grade
24ETCU6C19			Liberal Learning-II										
24ETCU6C20			Liberal Learning-III										
24ETCU6C20			Liberal Learning-IV										
Total				22	18	8	-	225	150	300	75	75	725
24ETCU6Z05	Honors Courses/Double (Minor)	HC (Optional)	Honors Paper- III Digital IC Design	3	2	-	-	20	30	50	-	-	100
24ETCU6Z06	Honors Courses/Double (Minor)	HC (Optional)	Honors Paper- III Digital IC Design lab	1	-	2	-	-	-	-	25	-	25



*-Values not included in total, #-2 contact hrs per club, Min Marks for passing: 40% of total marks of individual course

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