D Y PATIL
COLLEGE *of*
ENGINEERING & TECHNOLOGY
(AN AUTONOMOUS INSTITUTE)

KASABA BAWADA, KOLHAPUR

D. Y. Patil College of Engineering and Technology,

Kasaba Bawada Kolhapur

(An Autonomous Institute)

NBA Accredited

NAAC Accredited with 'A' Grade

Structure

of

M. Tech. in Electronics & Telecommunication Engineering

Department of Electronics & Telecommunication Engineering

2023-24

M. Tech. E&TC Scheme of Teaching and Examination w. e. f. A. Y. 2023-2024

(As Per National Education Policy 2020)

D. Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY, KOLHAPUR
Teaching and Evaluation Scheme from Year 2023-24
First Year M. Tech. - Electronics & Telecommunication Engineering
SEMESTER-I

Sr. No.	Course Code	Course Type	Name of the Course	TEACHING SCHEME			CREDITS	Total Marks	Evaluation Scheme			
				L	T	P			Type	Max. Marks	Minimum Marks For Passing	
1	232ETCL501	PCC	Random Processes	3	1	-	4	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
2	232ETCL502	PCC	Embedded System Design & Linux	3	-	-	3	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
3	232ETCL503	PCC	Wireless & Mobile Communication	3	-	-	3	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
4	232ETCL504-5	PEC	Elective – I	3	1	-	4	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
5	232ETCP506	PCC	Embedded System Design & Linux Lab	-	-	2	1	25	ISE	25	10	10
6	232ETCP507	PCC	Wireless & Mobile Communication Lab	-	-	2	1	25	ISE	25	10	10
7	232ETCP508	PCC	Simulation Lab	-	-	2	1	50	ISE	50	20	20
8	232ETCP509	ELC	Seminar-I	-	-	2	1	50	ISE	50	20	20
9	232ETCL510	LLC	Stress Management by Yoga*	1	-	2	2	50	ESE	50	20	20
10	232ETCL511	HSSM	Pedagogic Studies	1	1	-	2	50	ISE	50	20	20
	TOTAL			**14**	**3**	**10**	**22**	**650**				

NOTE:- * LLC Course - Stress Management by Yoga: ESE Examination of 50 Marks is to be conducted in online mode through MCQ by Central Examination Cell.

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D. Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY, KOLHAPUR
Teaching and Evaluation Scheme from Year 2023-24
First Year M. Tech. - Electronics & Telecommunication Engineering
SEMESTER-II

Sr. No.	Course Code	Course Type	Name of the Course	TEACHING SCHEME			CREDITS	Total Marks	Evaluation Scheme			
				L	T	P			Type	Max. Marks	Minimum Marks For Passing	
1	232ETCL512	PCC	Patten recognition and Machine Learning	3	-	-	3	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
2	232ETCL513	PCC	Research Methodology & IPR	3	-	-	3	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
3	232ETCL514-15	PEC	Elective – II	3	1	-	4	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
4	232ETCL516-17	PEC	Elective – III	3	1	-	4	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
5	232ETCL518	VSEC	Designing with PSoC	3	-	-	3	100	ISE	20	20	40
									MSE	30		
									ESE	50	20	
6	232ETCL519	OEC	Open Elective –I (SWAYAM /NPTEL)	3	-	-	3	100	ESE	100	40	40
7	232ETCP520	PCC	Patten recognition and Machine Learning Lab	-	-	2	1	25	ISE	25	10	10
8	232ETCP521	ELC	Seminar II	-	-	2	1	50	ISE	50	20	20
	TOTAL			18	2	4	22	675				

NOTE:- For Open Elective-I: The students are to study on their own by registering to SWAYAM /NPTEL Portal for the course which is multidisciplinary in nature(other than the course related to E & TC Stream). The student should complete the course assignments and appear the Examination conducted by SWAYAM /NPTEL. ESE Marks will be mapped as per the score mentioned on the SWAYAM /NPTEL Course completion certificate issued by SWAYAM /NPTEL.

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D. Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY, KOLHAPUR
Teaching and Evaluation Scheme from Year 2023-24
First Year M.Tech. - Electronics & Telecommunication Engineering
Exit Courses

Sr. No	Course Code	Name of the Course	Credits	
1	232ETCP522	Cisco Certified Network Associate (CCNA)	6	Any one Online/Offline Certification Courses
2	232ETCP523	Software Testing	6	
3	232ETCP524	Internship	2	Mandatory

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D. Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY, KOLHAPUR
Teaching and Evaluation Scheme from Year 2024-25
Second Year M. Tech. - Electronics & Telecommunication Engineering
SEMESTER - III

Sr. No.	Course Code	Course Type	Name of the Course	TEACHING SCHEME			CREDITS	Total Marks	Evaluation Scheme			
				L	T	P			Type	Max. Marks	Minimum Marks For Passing	
1	232ETCL601	OEC	Open Elective –II (SWAYAM /NPTEL)	3	-	-	3	100	ESE	100	40	40
2	232ETCP602	ELC	Seminar-III	-	-	2	1	50	ISE	50	20	20
3	232ETCP603	ELC	Dissertation Phase – I	-	-	28	14	200	ISE	100	40	40
									ESE-POE	100	40	40
TOTAL				3	-	30	18	350				

NOTE:- For Open Elective-II: The students are to study on their own by registering to SWAYAM /NPTEL Portal for the course which is multidisciplinary in nature(other than the course related to E & TC Stream). The student should complete the course assignments and appear the Examination conducted by SWAYAM /NPTEL. ESE Marks will be mapped as per the score mentioned on the SWAYAM /NPTEL Course completion certificate issued by SWAYAM /NPTEL.

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Sr. No.	Course Code	Course Type	Name of the Course	TEACHING SCHEME			CREDITS	Total Marks	Evaluation Scheme			
				L	T	P			Type	Max. Marks	Minimum Marks For Passing	
1	232ETCP604	ELC	Dissertation Phase– II	-	-	36	18	300	ISE	100	40	40
									ESE-POE	200	80	80
		TOTAL		**0**	**0**	**36**	**18**	**300**				

Program Electives:

Sr. No.	Elective – I	Course Code	Elective – II	Course Code	Elective – III	Course Code
1	Internet of Things	232ETCL504	Error Control Coding Techniques	232ETCL514	Wireless Sensor Networks	232ETCL
2	Application Specific Integrated Circuit	232ETCL505	Network Security & Cryptography	232ETCL515	Multiple Input Multiple Output	232ETCL

Note:

1) Tutorials and practical shall be conducted in batches with batch size of 9 students maximum.
2) For Seminar-I/II/III, work load will be for one student.
3) Dissertation Phase I & Dissertation phase II work load will be for one student.
4) Open Elective course (OEC) should be self-learning Online multidisciplinary and it should be completed before the end of respective semester. The course must be of minimum 8/12 weeks duration. The student must appear for Online Certification Examination and produce its certificate.
5) ISE: In Semester Evaluation, MSE: Mid Semester Examination, ESE: End Semester Examination

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EVALUATION METHODS:

1) **In Semester Evaluation (ISE-Theory) 20 marks:** ISE-1 and ISE-2 can be done by using following modes

    1) Online test
    2) Surprise test
    3) Open book-test
    4) Self-Study
    5) Self-learning topic
    6) Case study
    7) Demonstrations
    8) Seminars
    9) Assignments
    10) Active learning methods

ISE (Lab) 25 marks: Lab assessment is to be done using continuous assessment method in which faculty has to evaluate student's performance based upon defined rubrics only and shown to the students

2) **Mid Semester Examination (MSE)** will be conducted for 30 marks

3) **End Semester Examination (ESE) for 50 marks:-** ESE will be conducted on entire syllabus for 50 marks for duration of 2 hours.

Total Credits

Sem I	Sem II	Sem III	Sem IV	Total Credits
22	22	18	18	80

Total Credits as per vertices

PCC	PEC	OEC	VSEC	HSSM	ELC	LLC	Total
20	12	6	3	2	35	2	80