



JSPM's
RAJARSHI SHAHU COLLEGE OF ENGINEERING
TATHAWADE, PUNE-33
(An Autonomous Institute Affiliated to Savitribai Phule Pune University, Pune)



**Department of Electronics and
Telecommunication Engineering**
Syllabus Structure
(2025 Pattern)



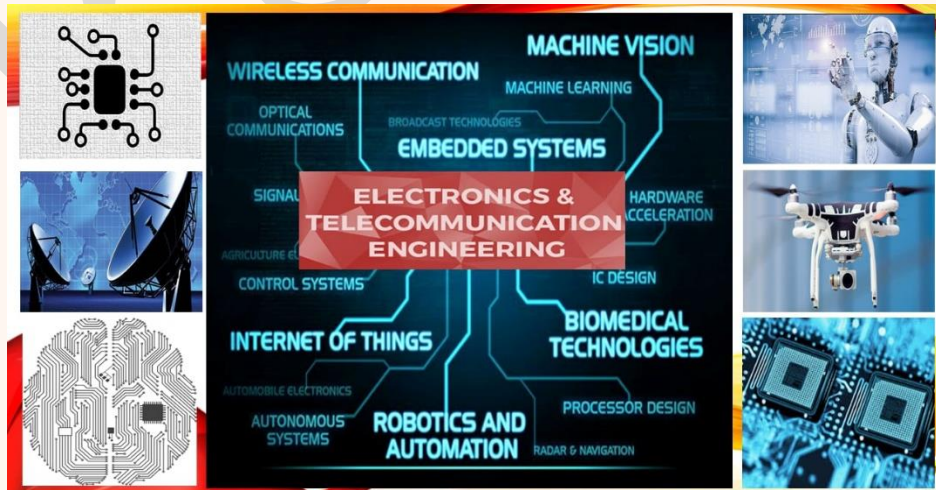
Department of Electronics and Telecommunication Engineering

Vision

“To create an educational environment to meet the challenges of modern Electronics and Telecommunication engineering industry through state of art technical knowledge and innovative approach”.

Mission

- To entrust the students with fundamentals of Electronics and Telecommunication Engineering for successful carrier
- To enable students to pursue higher education, research and promote Entrepreneurship
- To serve the nation through techno-social development.



Dr. S. C. Wagaj
B.O.S. Chairman

Dr. Mrs. K. P. Moholkar
Dean Academics

Dr. A. M. Badadhe
Director RSCOE, Pune





Highlights of the Syllabus

Curriculum of Electronics and Telecommunication Engineering course is designed in consultation with



Academic Experts

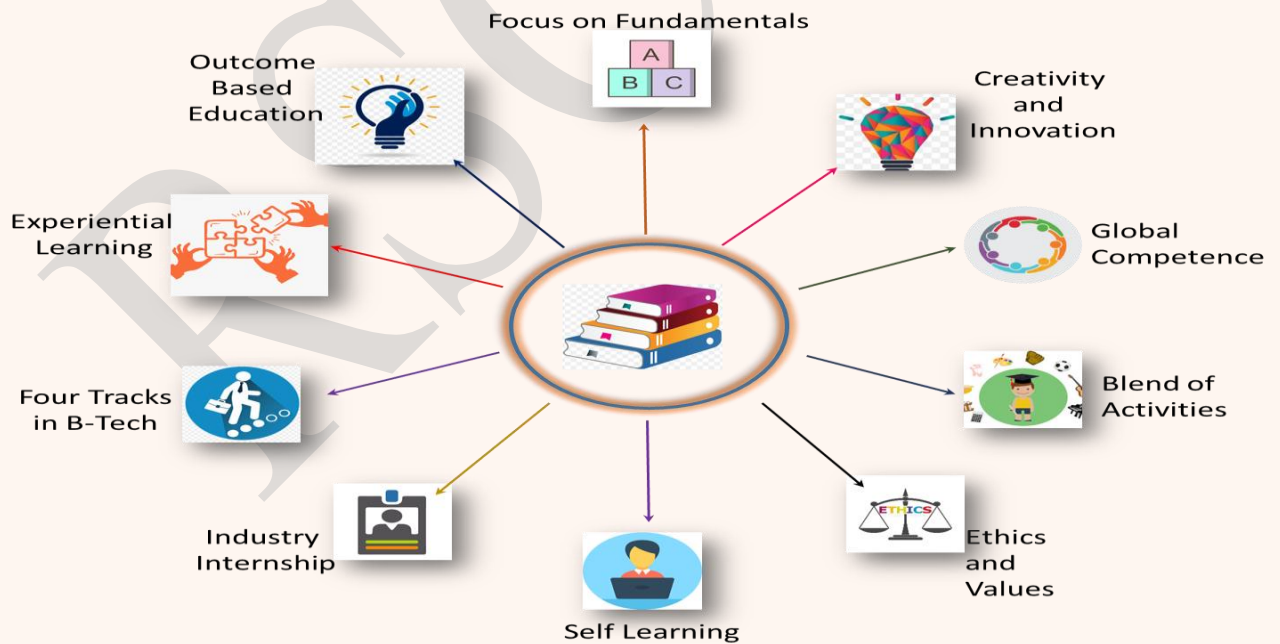


Industry/Corporate Experts



Distinguished Alumni

The salient features of curriculum designed in association with **KPIT, Nayan Electronics**.



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**Dr. S. C. Wagaj
B.O.S. Chairman**

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**Dr. Mrs. K. P. Moholkar
Dean Academics**

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**Dr. A. M. Badadhe
Director RSCOE, Pune**



Notes:

For Theory courses: There shall be MSE, ISE and ESE. The ESE is a separate head of passing.

For Lab courses: There shall be continuous assessment (ISCE consists of ISE and MSE). The ESE is a separate head of passing.

Abbreviations:

L – Lecture, **T** – Tutorial, **P** – Practical, **Hr**– Hours, **C** – Credits, **ISE** – In Semester Evaluation, **MSE** – Mid Semester Evaluation, **ESE** – End Semester Evaluation

BSC: Basic Science Course

ESC: Engineering Science Course

PCC: Programme Core Course

PEC: Programme Elective Course

MDM: Multidisciplinary Minor

OE: Open Elective

VSEC: Vocational and Skill Enhancement Course

HSSM: Humanities Social Science and Management

AEC: Ability Enhancement Course

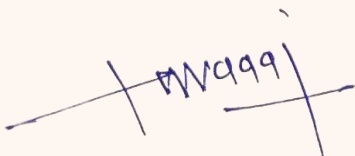
IKS: Indian Knowledge System

VEC: Value Education Course

CEP: Comm. Engg. Project

FP: Field Project

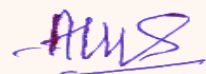
CC: Co-curricular Courses



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F. Y. B. Tech (Electronics & Telecommunication Engineering)
(2025 Pattern) Semester –I

Course	Course code	Course Title	Teaching Scheme, Classroom Contact Hr/week (Contact Hr/semester)			Self-learning SL	Hr/week (Hr/semester) Total Hr	Credit Cr	Examination Scheme			Total
			L	T	P				Continuous Assessment			
									ISE	MSE	ESE	
BSC	ES1301T	Calculus	3	1	-	4	8	4	20	30	50	100
BSC	ES1309T	Chemistry for Engineers	3	-	-	3	6	3	20	30	50	100
BSC	ES1309L	Chemistry for Engineers Laboratory	-	-	2	1	3	1	20	10	20	50
ESC	CE1301T	Engineering Mechanics	3	-	-	3	6	3	20	30	50	100
ESC	CE1301L	Engineering Mechanics Laboratory	-	-	2	1	3	1	20	10	20	50
ESC	EE1301T	Introduction to Electrical Engineering	3	-	-	3	6	3	20	30	50	100
ESC	EE1301L	Introduction to Electrical Engineering Laboratory	-	-	2	1	3	1	20	10	20	50
HSSM	ME1302L	Engineering Drawing Laboratory	-	-	4	2	6	2	40	20	40	100
ESC	ES1310T	Biology for Engineers	2	-	-	2	4	2	20	30	50	100
HSSM	ES1311L	Community Engagement Project	-	-	2	1	3	1	20	10	20	50
HSSM	ES1312L	Introduction to Engineering and Engineering Products	-	-	2	1	3	1	20	10	20	50
HSSM	HS1301	Induction Training	Non credit Course									
Total			14	1	14	22	51	22	240	220	390	850

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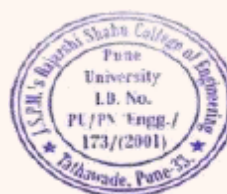
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F. Y. B. Tech (Electronics & Telecommunication Engineering)
(2025 Pattern) Semester –II

Course	Course code	Course Title	Teaching Scheme, Classroom Contact Hr/week (Contact Hr/semester)			Self-learning	Hr/week (Hr/semester)	Credit	Examination Scheme			Total			
			L	T	P				SL	Total Hr	Cr		Continuous Assessment		
													ISE	MSE	ESE
BSC	ES1302T	Linear Algebra and Integral Transforms	3	1	-	4	8	4	20	30	50	100			
BSC	ES1307T	Physics for Engineers	3	-	-	3	3	3	20	30	50	100			
BSC	ES1307L	Physics for Engineers Laboratory	-	-	2	1	3	1	20	10	20	50			
ESC	CS1301T	Introduction to Computer Programming and Data structure	2	-	-	2	4	2	20	30	50	100			
ESC	CS1301L	Introduction to Computer Programming and Data structure Laboratory	-	-	4	2	6	2	20	10	20	50			
ESC	EC1301L	Basic Electronics Engineering Laboratory	-	-	2	1	3	1	20	10	20	50			
HSS M	HS1302T/ HS1303T/ HS1304T/ HS1305T	Professional English Communication / English Language Skills / German Language Skills / Japanese Language Skills	2	-	-	2	4	2	20	30	50	100			
HSS M	HS1302L/ HS1303L/ HS1304L/ HS1305L	Professional English Communication Laboratory/ English Language Skills Laboratory/ German Language Skills Laboratory/ Japanese Language Skills Laboratory	-	-	2	1	3	1	20	10	20	50			
HSS M	ME1301L	Workshop Practice	-	-	4	2	6	2	40	20	40	100			

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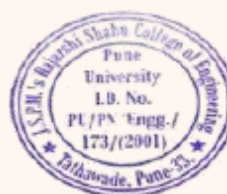
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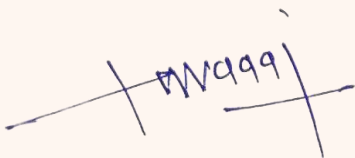
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HSS M	HS1307T	Indian Knowledge System	2	-	-	2	4	2	10	20	20	50
ESC	EC1301L	Basic Electronics Engineering Laboratory	-	-	2	1	3	1	20	10	20	50
HSS M	HS1301	Indian constitution	Non credit Course									
Total			14	1	14	22	51	22	240	220	390	850

RSCOE

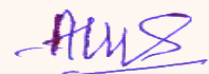


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S. Y. B. Tech (Electronics & Telecommunication Engineering)
(2025 Pattern) Semester –III

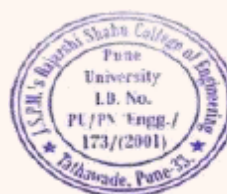
Course	Course code	Course Title	Teaching Scheme, Classroom Contact			Self-learning	Hr/week (Hr/semester)	Credit	Examination Scheme				Total
			(Contact Hr/semester)						Continuous Assessment			Semester End Examination	
			L	T	P				SL	Hr	C	TA1	
BSC	ES2302T	Differential Equations and Vector Calculus	3(45)	1(15)	-	60	4(120)	4	10	30	10	50	100
PCC	EC2301T	Electronics Devices & Circuits	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PCC	EC2302T	Digital System Design	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PCC	EC2303T	Data Structures using Python	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PCC	EC2304T	Electrical Networks & Machines	3(45)	-	-	45	3(90)	3	10	30	10	50	100
HSSM	HS2301T	Universal Human Values & Professional Ethics	2(30)	1(15)	-	30	3(90)	3	20*	30*	20	30	100
PCC	EC2301L	Electronics Devices & Circuits Lab	-	-	2(20)	10	2(30)	1	10	10	10	20	50
PCC	EC2302L	Digital System Design Lab	-	-	2(22)	08	2(30)	1	10	10	10	20	50
PCC	EC2303L	Data Structures using Python Lab	-	-	2(22)	08	2(30)	1	10	10	10	20	50
Total			17(255)	2(30)	6(64)	311	25(660)	22	100	210	100	340	750

* - No pen paper exam

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S. Y. B. Tech (Electronics & Telecommunication Engineering)
(2025 Pattern) Semester –IV

Course	Course code	Course Title	Teaching Scheme, Classroom Contact Hr/week (Contact Hr/semester)			Self-learning SL	Hr/week (Hr/semester) Hr	Credit C	Examination Scheme					Total
			L	T	P				Continuous Assessment			Semester End Examination ESE		
									TA1	MSE	TA2		ESE	
BSC(MDM)	ES2303T	Probability & Statistics	3(45)	1(15)	-	60	4(120)	4	10	30	10	50	100	
PCC	EC2305T	Communication Systems	3(45)	-	-	45	3(90)	3	10	30	10	50	100	
PCC	EC2306T	Microcontroller	3(45)	-	-	45	3(90)	3	10	30	10	50	100	
PCC	EC2307T	Signals & Systems	3(45)	-	-	45	3(90)	3	10	30	10	50	100	
PCC	EC2308T	Control System	3(45)	-	-	45	3(90)	3	10	30	10	50	100	
PCC	EC2305L	Communication Systems Lab	-	-	2(16)	14	2(30)	1	10	10	10	20	50	
PCC	EC2306L	Microcontroller Lab	-	-	2(16)	14	2(30)	1	10	10	10	20	50	
CC	EC2309L	Introduction to Python and Data Science Lab	-	-	2(24)	06	2(30)	1	10	10	10	20	50	
PR(MDM)	EC2310L	Design Thinking and Innovation Lab	-	-	4(40)	20	4(60)	2	20	20	20	40	100	
CC	CCA2301L	Cocurricular Activities	-	-	2(16)	14	2(30)	1	10	10	10	20	50	
Total			15(225)	1(15)	12(112)	308	28(660)	22	110	210	110	370	800	

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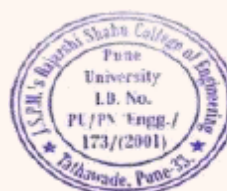
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T. Y. B. Tech (Electronics & Telecommunication Engineering)
(2025 Pattern) Semester –V

Course	Course code	Course Title	Teaching Scheme, Classroom Contact Hr/week (Contact Hr/semester)			Self-learning SL	Hr/week (Hr/semester) Hr	Credit C	Examination Scheme				Total
			L	T	P				Continuous Assessment			Semester End Examination ESE	
									TA1	MSE	TA2		
PCC	EC3301T	Industrial Drives & Control	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PEC	EC3302T	Digital Signal Processing	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PCC	EC3303T	Embedded & RTOS	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PCC	EC3304T	Electromagnetic Waves & Radiating Systems	2(30)	-	-	30	2(60)	2	10	30	10	50	100
OE	ECO3301T	Open elective-I	3(45)	-	-	45	3(90)	3	10	30	10	50	100
HSSM(MDM)	HS3301T	Economics for Engineers: Markets, Policy and Development	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PCC	EC3301L	Industrial Drives & Control Lab	-	-	2(18)	12	2(30)	1	10	10	10	20	50
PCC	EC3302L	Digital Communication Lab	-	-	2(16)	14	2(30)	1	10	10	10	20	50
PCC	EC3303L	Embedded & RTOS Lab	-	-	2(16)	14	2(30)	1	10	10	10	20	50
PCC	EC3305L	Seminar	-	-	2(16)	14	2(30)	1	10	10	10	20	50
PCC	EC3306L	Engineering Innovation & Society-I	-	-	2(20)	10	2(30)	1	10	10	10	20	50
Total			17(255)	-	10(86)	319	27(660)	22	110	230	110	400	850

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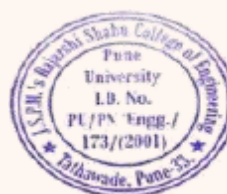
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T. Y. B. Tech (Electronics & Telecommunication Engineering)
(2025 Pattern) Semester –VI

Course	Course code	Course Title	Teaching Scheme, Classroom Contact Hr/week (Contact Hr/semester)			Self-learning SL	Hr/week (Hr/semester) Hr	Credit C	Examination Scheme					Total
			L	T	P				Continuous Assessment			Semester End Examination ESE		
									TA1	MSE	TA2			
BSC	ES3301T	Environmental Systems and Sustainability Engineering	3(45)	-	-	45	3(90)	3	10	30	10	50	100	
PCC	EC3307T	VLSI Design & Technology	3(45)	-	-	45	3(90)	3	10	30	10	50	100	
PCC	EC3308T	Internet of Things	3(45)	-	-	45	3(90)	3	10	30	10	50	100	
PEC	EC3309T	Program Elective-I	3(45)	-	-	45	3(90)	3	10	30	10	50	100	
OE	ECO3302T	Open elective-II	3(45)	-	-	45	3(90)	3	10	30	10	50	100	
PCC	EC3307L	VLSI Design & Technology Lab	-	-	2(16)	14	2(30)	1	10	10	10	20	50	
PCC	EC3308L	Internet of Things Lab	-	-	2(16)	14	2(30)	1	10	10	10	20	50	
PCC(MDM)	EC3310L	Electronics System Design Lab	-	-	2(16)	14	2(30)	1	10	10	10	20	50	
CC	CCA3301L	Workplace Communication and Analytical Skills	-	-	2(20)	10	2(30)	1	10	10	10	20	50	
PCC	EC3311L	Engineering Innovation & Society-II	-	-	6(60)	30	6(90)	3	30	30	30	60	150	
Total			15(225)	-	14(128)	307	29(660)	22	120	220	120	390	850	

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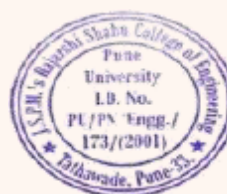
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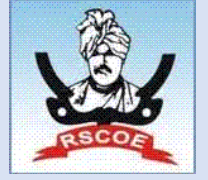
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Fourth. Year. B. Tech (Electronics & Telecommunication Engineering)
(2025 Pattern) Semester –VII

Course	Course code	Course Title	Teaching Scheme, Classroom Contact Hr/week (Contact Hr/semester)			Self-learning SL	Hr/week (Hr/semester) Hr	Credit C	Examination Scheme				Total
			L	T	P				Continuous Assessment			Semester End Examination ESE	
									TA1	MSE	TA2		
HSS(MD M)	HS4301T	Foundation of Management & Entrepreneurship	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PCC	EC4301T	Mobile Communication	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PEC	EC4302T	Program Elective-II	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PEC	EC4303T	Program Elective-III	3(45)	-	-	45	3(90)	3	10	30	10	50	100
OE	ECO4301T	Open Elective-III	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PCC	EC4301L	Mobile Communication Lab	-	-	2(16)	14	2(30)	1	10	10	10	20	50
PEC	EC4302L	Program Elective-II Lab	-	-	2(16)	14	2(30)	1	10	10	10	20	50
PEC	EC4303L	Program Elective-III Lab	-	-	2(16)	14	2(30)	1	10	10	10	20	50
PCC(MD M)	EC4304L	Certification Course	-	-	2(16)	14	2(30)	1	10	10	10	20	50
Project	EC4305L	Engineering Innovation & Society-III	-	-	6(60)	30	6(90)	3	30	30	30	60	150
Total			15(225)	-	14(124)	311	29(660)	22	120	220	120	390	850

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Program Elective-I (Sem 6th)

Course Code	Course
EC3309TA	Digital Signal Processing
EC3309TB	Automation in Agriculture
EC3309TC	Wireless sensor Network
EC3309TD	Java Programming

Program Elective-II (Sem 7th)

Course Code	Course
EC4302TA	Machine Learning
EC4302TB	Industrial Automation
EC4302TC	Computer Networks & Security
EC4302TD	Advanced Java

Program Elective -III (Sem 7th)

Course Code	Course
EC4303TA	Deep Learning
EC4303TB	Embedded Automotive Systems
EC4303TC	5G Technology
EC4303TD	Web Technology

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Fourth. Year. B. Tech (Electronics & Telecommunication Engineering)
(2025 Pattern) Semester –VIII Industrial Internship/ Training Track

Course	Course code	Course Title	Teaching Scheme, Classroom Contact Hr/week (Contact Hr/semester)			Self-learning SL	Hr/week (Hr/semester) Hr.	Credit C	Examination Scheme				Total
									Continuous Assessment			Semester End Examination	
			L	T	P				TA1	MSE	TA2	ESE	
PCC	EC4306L	Industrial Internship/ Training	-	-	-	540	24(540) [#]	12	100	100	100	200	500
Total			-	-	-	540	24(540)	12	100	100	100	200	500

Fourth. Year. B. Tech (Electronics & Telecommunication Engineering)
(2025 Pattern) Semester –VIII Entrepreneurship Track

Course	Course code	Course Title	Teaching Scheme, Classroom Contact Hr/week (Contact Hr/semester)			Self-learning SL	Hr/week (Hr/semester) Hr.	Credit C	Examination Scheme				Total
									Continuous Assessment			Semester End Examination	
			L	T	P				TA1	MSE	TA2	ESE	
PCC	EC4306L	Entrepreneurship	-	-	-	540	24(540) [#]	12	100	100	100	200	500
Total			-	-	-	540	24(540)	12	100	100	100	200	500

Fourth. Year. B. Tech (Electronics & Telecommunication Engineering)
(2025 Pattern) Semester –VIII Higher studies / competitive exam Track

Course	Course code	Course Title	Teaching Scheme, Classroom Contact Hr/week (Contact Hr/semester)			Self-learning SL	Hr/week (Hr/semester) Hr.	Credit C	Examination Scheme				Total
									Continuous Assessment			Semester End Examination	
			L	T	P				TA1	MSE	TA2	ESE	
PCC	EC4306L	Higher studies / competitive exam	-	-	-	540	24(540) [#]	12	100	100	100	200	500
Total			-	-	-	540	24(540)	12	100	100	100	200	500

1 credit = 40 to 45 Hours of work as per AICTE Internship guideline.

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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION
ENGINEERING
Honor in
EMBEDDED SYSTEM DESIGN AND AUTOMOTIVE NETWORKS
Structure

Course	Course code	Course Title	Teaching Scheme, Classroom Contact (Contact Hr/week Hr/semester)			Self-learning SL	Hr/week (Hr/semester) Hr	Credit C	Examination Scheme				Total
			L	T	P				Continuous Assessment			Semester End Examination ESE	
									TA1	MSE	TA2		
S Y Sem-IV													
PCC	ECH2201T	Foundations of Computer Systems	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PCC	ECH2201L	Foundations of Computer Systems Lab	-	-	2(12)	18	2(30)	1	10	10	10	20	50
T Y Sem-V													
PCC	ECH3301T	Embedded Systems and Internet of Things	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PCC	ECH3301L	Embedded Systems and Internet of Things Lab	-	-	2(16)	14	2(30)	1	10	10	10	20	50
T Y Sem-VI													
PCC	ECH3203T	Embedded Linux	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PCC	ECH3203L	Embedded Linux Lab	-	-	2(12)	18	2(30)	1	10	10	10	20	50
Fourth Year Sem-VII													
PCC	ECH4201T	Automotive Communication Networks	3(45)	-	-	45	3(90)	3	10	30	10	50	100
PCC	ECH4201L	Automotive Communication Networks Lab	-	-	2(12)	18	2(30)	1	10	10	10	20	50
Fourth Year Sem-VIII													
PCC	ECH4202L	Embedded System Design with V-Model-Mini Project	-	-	4(24)	36	4(60)	2	20	20	20	40	100
Total			12(180)	-	12(76)	284	24(540)	18	100	180	100	320	700

Handwritten signature of Dr. S. C. Wagaj

Dr. S. C. Wagaj
B.O.S. Chairman

Handwritten signature of Dr. Mrs. K. P. Moholkar

Dr. Mrs. K. P. Moholkar
Dean Academics

Handwritten signature of Dr. A. M. Badadhe

Dr. A. M. Badadhe
Director RSCOE, Pune





JSPM's
RAJARSHI SHAHU COLLEGE OF ENGINEERING
TATHAWADE, PUNE-33
 (An Autonomous Institute Affiliated to Savitribai Phule Pune University, Pune)



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION
ENGINEERING

Honor
Internet of Things

Course	Course code	Course Title	Teaching Scheme, Classroom Contact Hr/week (Contact Hr/semester)			Self-learning SL	Hr/week (Hr/semester) Hr	Credit C	Examination Scheme					Total
			L	T	P				Continuous Assessment			Semester End Examination		
									T A1	MSE	TA 2	ESE	ESE Project	
S Y Sem-IV														
PCC	ECH2301T	Internet of Things Architectures, Protocols and Systems Programming	3(45)	1(15)	-	60	4(120)	4	10	30	10	50	-	100
T Y Sem-V														
PCC	ECH3301T	Embedded Systems and Internet of Things	3(45)	-	-	45	3(90)	3	10	30	10	50	-	100
PCC	ECH3301L	Embedded Systems and Internet of Things Lab	-	-	2(16)	14	2(30)	1	10	10	10	20	-	50
T Y Sem-VI														
PCC	ECH3302T	Machine Learning for Internet of Things	3(45)	-	-	45	3(90)	3	10	30	10	50	-	100
PCC	ECH3302L	Machine Learning for Internet of Things Lab	-	-	2(16)	14	2(30)	1	10	10	10	20	-	50
T Y Sem-VII														
PCC	ECH4301T	Internet of Things Security	3(45)	-	-	45	3(90)	3	10	30	10	50	-	100
PCC	ECH4302L	Mini Project	-	-	6(48)	42	6(90)	3	30	40	30	50	-	150
Total			12(180)	1(15)	10(80)	265	23(498)	18	90	180	90	290	-	650

[Signature]

Dr. S. C. Wagaj
B.O.S. Chairman

[Signature]

Dr. Mrs. K. P. Moholkar
Dean Academics

[Signature]

Dr. A. M. Badadhe
Director RSCOE, Pune

