



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



Department of Computer Engineering
Structure
(2025 Pattern)
w.e.f. Academic Year 2026-2027

Seemaal

Dr. Seema. V. Kedar
BoS, Computer Engineering

K.P.

Dr. K. P. Moholkar
Dean Academics



AMS

Dr. A. M. Badadhe
Director RSCOE, Pune



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S. Y. B. Tech (Computer Engineering)
Semester -III Structure
 (Level 5 - UG-Diploma/ Diploma-Eng) -Semester III)

S N	Course Categor y	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning SL	Total Classroom Contact hr/week (Contact hr/ semester) Hr	Credit C	Examination scheme (Marks)				
										Continuous Assessment			Semester End Examination ESE	Total Marks
				L	T	P				TA1	MS E	TA2		
	MDM	ES2303T	Probability & Statistics	3 (45)	1 (15)	0(0)	(60)	4 (120)	4	10	30	10	50	100
2	PCC	CS2301T	Computer Organization and Architecture	2 (30)	0	0	(30)	2 (60)	2	10	30	10	50	100
3	PCC	CS2302T	Data structures	3 (45)	0	0	(45)	3 (90)	3	10	30	10	50	100
4	PCC	CS2302L	Data structures Laboratory	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
5	PCC	CS2303T	Operating Systems	3 (45)	0	0	(45)	3 (90)	3	10	30	10	50	100
6	PCC	CS2303L	Operating Systems Laboratory	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
7	PCC	CS2304T	Database Management Systems	3 (45)	0	0	(45)	3 (90)	3	10	30	10	50	100
8	PCC	CS2304L	Database Management Systems Laboratory	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
9	Seminar	CS2305L	Seminar on Emerging Technologies	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
10	VSEC	CS2306L	Web Technologies	0	0	2 (16)	(14)	2 (30)	1	20	20	20	40	100
11	MDM /PR	CS2307L	Design Thinking and Innovation	1 (15)	0	2 (16)	(29)	3 (60)	2	20	20	20	40	100
Total				15 (225)	1 (15)	12 (96)	(324)	28 (660)	22	130	230	130	410	900

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S. Y. B. Tech (Computer Engineering)
Semester -IV Structure
 (Level 5 - UG-Diploma/ Diploma-Eng) -Semester IV

S N	Course Category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning SL	Total Classroom Contact hr/week (Contact hr/ semester)	Credi t	Examination scheme (Marks)				
										Continuous Assessment			Semest er End Exami nation	Total Marks
				L	T	P		Hr		TA1	MSE	TA2	ESE	
1	PCC	CS2308T	Formal Language & Automata Theory	3 (45)	0	0	(45)	3(90)	3	10	30	10	50	100
2	PCC	CS2309T	Advance Data Structures	3 (45)	0	0	(45)	3 (90)	3	10	30	10	50	100
3	PCC	CS2309L	Advance Data Structures Laboratory	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
4	PCC	CS2310T	Software Engineering and Quality Assurance	3 (45)	0	0	(45)	3 (90)	3	10	30	10	50	100
5	PCC	CS2310L	Software Engineering and Quality Assurance Lab	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
6	PCC	CS2311T	Computer Networks	3 (45)	0	0 (0)	(45)	3 (90)	3	10	30	10	50	100
7	PCC	CS2311L	Computer Networks Laboratory	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
8	VSEC	CS2312L	Data Science using python	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
9	VSEC	CS2313L -A / CS2313L -B	Programming Lab I: Java / Programming Lab I: Swift Programming	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
10	CC	CCA230 1L	Co curricular Activity	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
11	VEC	HS2301T	Universal Human Values and Professional Ethics	2 (30)	1 (15)	0 (0)	(45)	3 (90)	3	10	30	10	50	100
12	Project	CS2314L	Engineering Design and Innovation	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
Total				14 (210)	1 (15)	14 (112)	(323)	28 (660)	22	120	220	120	390	850

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T. Y. B. Tech (Computer Engineering)
Semester -V Structure
 (Level 5.5 - B.Voc./ B.Sc. Engg) -Semester V

S N	Course Categor y	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self- learning SL	Total Classroom Contact hr/week Hr	Credi t C	Examination scheme (Marks)				
										Continuous Assessment			Semester End Examinati on ESE	Total Marks
				L	T	P				TA1	M SE	TA2		
1	PCC	CS3301T	Machine Learning	3(45)	0(0)	0 (0)	(45)	3(90)	3	10	30	10	50	100
2	PCC	CS3301L	Machine Learning Laboratory	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
3	PCC	CS3302T	Internet of Things	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100
4	PCC	CS3302L	Internet of Things lab	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
5	VEC	ES3301T	Environmental Systems and Sustainability Engineering	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100
6	OE		Open Elective I	3(45)	0(0)	0 (0)	(45)	3(90)	3	0	25	0	75	100
7	VSEC	CS3303L	Programming Lab II (Advance Java or App development using swift Programmimg)	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
8	PEC	CS3304T	Professional Elective-I	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100
9	PEC	CS3305L	Professional Elective-I Laboratory	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
10	PCC	CS3306L	Industry Sponsored Course (Data and Business Analytics)	1 (15)	0 (0)	2 (16)	(29)	4(60)	2	20	20	20	40	100
11	Proje ct	CS3307L	Engineering Innovation and Society-I	0	0	2 (16)	(14)	2 (30)	1	10	10	10	20	50
Total				16 (240)	0 (0)	12 (96)	(324)	29 (660)	22	110	215	110	415	850

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T. Y. B. Tech (Computer Engineering)
Semester -VI Structure
 (Level 5.5 - B.Voc./ B.Sc. Engg) -Semester VI

S N	Course Categor y	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning SL	Total Classroom Contact hr/week (Contact hr/ semester) Hr	Credit C	Examination scheme (Marks)				
										Continuous Assessment			Sem ester End Exa min atio n ESE	Total Marks
				L	T	P				TA1	MS E	TA2		
1	PCC	CS3308T	Compiler Design	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100
2	PCC	CS3308L	Compiler Design Laboratory	0	0	2(16)	(14)	2(30)	1	10	10	10	20	50
3	OE		Open Elective II	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3		25		75	100
4	PEC	CS3309T	Professional Elective-II	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100
5	PEC	CS3309L	Professional Elective-II Laboratory	0	0	2(16)	(14)	2 (30)	1	10	10	10	20	50
6	MDM	HS3301T	Economics for Engineers	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100
7	CC	CCA3301 L	Workplace Communication and Analytical Skills	0	0	2(16)	(14)	2(30)	1	10	10	10	20	50
8	MDM	CS3310T	Cloud Infrastructure and Application Development	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100
9	MDM	CS3310L	Cloud Infrastructure and Application Development lab	0	0	2(16)	(14)	2(30)	1	10	10	10	20	50
10	VSEC	CS3311L	UI/UX lab	0	0	2(16)	(14)	2(30)	1	10	10	10	20	50
11	Project	CS3312L	Engineering Innovation and Society-II	0	0	4 (32)	(28)	4 (30)	2	20	20	20	40	100
Total				15 (225)	0	14(112)	(323)	29 (660)	22	110	215	110	415	850

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Fourth Year B. Tech (Computer Engineering)
Semester -VII Structure
 (Level 6 – B.Tech) -Semester VII

S N	Course Categor y	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning SL	Total Classroom Contact hr/week (Contact hr/ semester)	Credit C	Examination scheme (Marks)				
										Continuous Assessment			Semeste r End Examin ation	Total Marks
				L	T	P		Hr		TA1	MSE	TA2	ESE	
1	PCC	CS4301T	Quantum Computing	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100
2	PCC	CS4301L	Quantum Computing Lab	-	-	2(16)	(14)	2(30)	1	10	10	10	20	50
3	OE		Open Elective-III	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3		25		75	100
4	PEC	CS4302T	Professional Elective-III	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100
5	PEC	CS4302L	Professional Elective-III Laboratory	-	-	2(16)	(14)	2(30)	1	10	10	10	20	50
6	PEC	CS4303T	Professional Elective-IV	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100
7	PEC	CS4303L	Professional Elective-IV Laboratory	-	-	2(16)	(14)	2(30)	1	10	10	10	20	50
8	MDM	HS4201T	Foundation of Management and Entrepreneurship	3 (45)	0 (0)	0 (0)	(45)	3 (90)	3	10	30	10	50	100
9	PCC	CS4304L	Industry Sponsored Course Salesforce	-	-	2(16)	(14)	2(30)	1	10	10	10	20	50
10	Proje ct	CS4305L	Engineering Innovation and Society-III	-	-	6 (60)	(30)	6 (90)	3	30	30	30	60	100
Total				15 (225)	-	14 (124)	29 (311)	29 (660)	22	130	235	130	455	9

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B. Tech (Computer Engineering)

Semester -VIII Structure

(Level 6 – B.Tech) -Semester VIII)

Track I - Internship and Training

S N	Course Categor y	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (Contact hr/semester)			Self-learning SL	Total Classroom Contact hr/week (Contact hr/ semester) Hr	Credit C	Examination scheme (Marks)				
										Continuous Assessment			Semeste r End Examin ation	Total Marks
				L	T	P				TA1	MSE	TA2	ESE	
1	PCC	CS4211L	Industrial Internship /Entrepreneurship/ Research Training	-	-	-	540#	12 (540)	12	300			200	500
Total				0	0	0	540	540	12	300			200	500

NOTE: # According to AICTE Internship guidelines 1 credit=40 to 45 hours of work

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