



1 7	I YEAR B.E [CSE- AI&ML]		SEMESTER - I					REGULATIONS – 2024			
S.No	Course Code	Course Title	CAT	Periods / Week				Credit	Maximum Marks		
				L	T	P	R		CA	FE	TOTAL
Theor	<b>cy</b>										
1	241LEH101T	Professional English – I	HS	3	0	0	0	3	40	60	100
2	241MAB101T	Matrices and Calculus	BS	3	2	0	0	4	40	60	100
3	241PYB101T	Engineering Physics	BS	3	0	0	0	3	40	60	100
4	241CYB101T	Engineering Chemistry	BS	3	0	0	0	3	40	60	100
5	241GES101T	Programming in C	ES	3	0	0	0	3	40	60	100
6	241LEH102T	தமிழர் மரபு / Heritage of Tamils	HS	1	0	0	0	1	40	60	100
Labor	ratory										
7	241GEB111L	Physics & Chemistry Laboratory	BS	0	0	2	0	1	60	40	100
8	241LEA111L	Communication Skills Laboratory	EEC	0	0	2	0	1	60	40	100
9	241GES111L	Programming in C Laboratory	ES	0	0	3	1	2	60	40	100
Mand	latory Course										
10	241GEM111L	IDEA Laboratory	MC / BS	0	0	2	2	2	60	40	100
11	241GEM112L	Induction Training*	MC	0	0	4	0	2	-	-	-
			16	2	13	3	23				

<sup>\*</sup>As per AICTE Norms, Grade: Completed / Not Completed; Not Counted for CGPA



#### PRATHYUSHA ENGINEERING COLLEGE (Autonomous)

**CURRICULUM** 



	I YEAR B.E [CSE- AI&ML]			EMES'	R - II		REGULATIONS – 2024				
CNo	Course Code	Comes Title	CAT		Periods / Week				Maximum Marks		
S.No	Course Code	Course Title	CAT	L	T	P	R	it	C A	F E	TOTA L
Theor	y										
1	241LEH201T	Professional English – II	HS	3	0	0	0	3	40	60	100
2	241MAB201T	Linear Algebra and Numerical Methods	BS	3	2	0	0	4	40	60	100
3	241PYB201T	Physics for Information Science	BS	3	0	0	0	3	40	60	100
4	241GEB201T	Environmental Science for Computer Science Engineering	MC/ BS	2	0	0	0	2	40	60	100
5	241GES201T	Problem Solving Using Python	ES	3	0	0	0	3	40	60	100
6	241LEH202T	தமிழரும் தொழில்நுட்பமும் / Tamils and Technology	HS	1	0	0	0	1	40	60	100
Labor	ratory										
7	241GES211L	Basic Electrical and Electronics Engineering Laboratory	ES	0	0	4	0	2	60	40	100
8	241GES214L	Problem Solving Using Python Laboratory	ES	0	0	3	1	2	60	40	100
9	241GES212L	Visualization of Design and Drawing	ES	0	0	3	1	2	60	40	100
			15	1	10	3	22				

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пу	II YEAR B.E [CSE- AIML]		SE	MES	TEF	R - II	I	REGULATIONS – 2024			
C N -	Carrer Calla	C	CAT	Periods / Week				C 114	Maximum Marks		
S.No	Course Code	Course Title	CAT	L	T	P	R	Credit	CA	FE	TOTAL
Theor	ry										
1	241MAB301T	Discrete Mathematics	BS	3	1	0	0	4	40	60	100
2	241ALC301J	Artificial Intelligence	PC	2	0	2	0	3	50	50	100
3	241ADC301T	Foundations of Data Science	PC	3	0	0	0	3	40	60	100
4	241CSC301J	Data Structures	PC	3	0	2	0	4	50	50	100
5	241GES302T	Object Oriented Programmingusing Java	ES	3	0	0	0	3	40	60	100
6	241GES301T	Digital Principles and Computer Organization	ES	2	0	2	0	3	50	50	100
Labor	ratory					•				•	
7	241GES311L	Object Oriented Programming using Java Laboratory	ES	0	0	4	0	2	60	40	100
8 241ADC311L Data Science Laboratory				0	0	3	1	2	60	40	100
			16	1	13	1	24				

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IV	IV YEAR B.E [CSE- AI&ML]			MES	тег	R - IV	7	REGULATIONS – 2024			
S.No	Course Code	Course Title	CAT	Periods / Week			Credit	Maximum Marks			
5.110	Course Code	Course Title	CAI	L	Т	P	R	Crean	CA	FE	TOTAL
Theor	ry										
1	241MAB401T	Probability and Statistics	BS	3	2	0	0	4	40	60	100
2	241CSC403T	Design and Analysis of Algorithms	PC	3	0	0	0	3	40	60	100
3	241ALC401T	Machine Learning	PC	3	0	0	0	3	40	60	100
4	241ADC401T	Database Design and Management	PC	3	0	0	0	3	40	60	100
5	241CSC404J	Operating Systems	PC	2	0	2	0	3	50	50	100
Labor	ratory										
6	241ALC411L	Machine Learning Laboratory	PC	0	0	3	1	2	60	40	100
7	241ADC411L	Database design and Management Laboratory	PC	0	0	4	0	2	60	40	100
Mand	latory Course										
8	241GEM902T	Innovation and startup*	MC	2	0	0	0	2	40	60	100
			16	2	9	1	22				

<sup>\*</sup> As per AICTE Norms, Grade: Completed / Not Completed; Not Counted for CGPA





III	III YEAR B.E [CSE- AI&ML]			MES	STE	R - V		REGULATIONS – 2024			
C No	Course Code	Course Title	CAT	Periods / Week				G . 124	Maximum Marks		
S.No	Course Code	Course Title	CAI	L	T	P	R	Credit	CA	FE	TOTAL
Theor	y										
1	241ALC501T	Deep Learning	PC	3	0	0	0	3	40	60	100
2	241ADC502T	Computer Networks	PC	3	0	0	0	3	40	60	100
3		Professional Elective I*	PE	3	0	0	0	3	40	60	100
4		Professional Elective II*	PE	3	0	0	0	3	40	60	100
5		Open Elective I*	OE	3	0	0	0	3	40	60	100
Labor	ratory										
6	241ALC511L	Deep Learning Laboratory	PC	0	0	3	1	2	60	40	100
7	241INM511I	Industry Supported Courses	EEC	0	0	2	0	1	60	40	100
Mandatory Course											
8	241GEM901T	Essence of Indian Knowledge Tradition*	MC	2	0	0	0	2	40	60	100
	Total- 23 Periods					5	1	20			

<sup>\*</sup> As per AICTE Norms, Grade: Completed / Not Completed; Not Counted for CGPA

**\$Open Elective/ Professional Elective courses (maximum of 3) can be dropped upon the Completion/Certification of NPTEL/SWAYAM online courses.** 

<sup>\*</sup>Open Elective - I shall be chosen from the list of open electives offered by other Programmes.





III	III YEAR B.E [CSE- AI&ML]			SEMESTER - VI					REGULATIONS – 2024			
S.No	Course Code	Course Title	CAT	Periods / Week				Credit	Maximum Marks			
5.110	Course coue	Course Title	CITI	L	T	P	R	Crean	CA	FE	TOTAL	
Theor	ry											
1	241ALC601T	Natural Language Processing	PC	3	0	2	0	4	50	50	100	
2	241ALC602T	Social and Ethical Issues in AI	PC	3	0	0	0	3	40	60	100	
3	241CSC602J	Embedded Systems and IOT	PC	2	0	2	0	3	50	50	100	
4		Professional Elective III\$	PE	3	0	0	0	3	40	60	100	
5		Professional Elective IV\$	PE	3	0	0	0	3	40	60	100	
6		Open Elective II\$	OE	3	0	0	0	3	40	60	100	
Labor	ratory				•	•						
7	241INM611I	Industry Supported Courses	EEC	0	0	2	0	1	-	-	-	
		Total – 23 Periods		17	0	6	0	20				

<sup>\*</sup>Open Elective – II shall be chosen from the list of open electives offered by other Programmes





IV Y	IV YEAR B.E [CSE- AI&ML]			SEMESTER - VII					REGULATIONS – 2024			
S.No	Course Code	Course Title	CAT	Periods / Week				Credit	Maximum Marks			
5.110	No Course Code Course Title		CAI	L	T	P	R	Credit	CA	FE	TOTAL	
Theor	·y			•								
1	241ALC701T	Full Stack Development	PC	3	0	0	0	3	40	60	100	
2	241MBH701T	Total Quality Management	HS	3	0	0	0	3	40	60	100	
3		Open Elective – III\$	OE	3	0	0	0	3	40	60	100	
4		Professional Elective V\$	PE	3	0	0	0	3	40	60	100	
5		Professional Elective VI\$	PE	3	0	0	0	3	40	60	100	
Labor	ratory											
6	241ALC711L	Full Stack Development Laboratory	PC	0	0	3	1	2	60	40	100	
7	241ALP711L	Mini project	EC	0	0	2	2	2	60	40	100	
8	241INM711I	Industry Supported Courses	EC	0	0	2	0	1	60	40	100	
9	241ALA711L	Internship*	EC	0	0	0	0	2	60	40	100	
			15	0	6	2	22					

<sup>\$</sup> Open Elective / Professional Elective courses (maximum of 3) can be dropped upon the Completion/Certification of NPTEL / SWAYAM online courses.

<sup>\*</sup>Internship Mark provided to COE at the end of Seventh Semester.





IV YEAR B.E [CSE- AI&ML]			SEMESTER - VIII					REGULATIONS – 2024			
S.No Course		Course Title	CAT	Periods / Week			Credit	Maximum Marks			
5.110	Code			L	T	P	R		CA	FE	TOTAL
Theor	ry										
1	241ALP811L	Project Work / Start up	EEC	0	0	0	24	12	60	40	100
	Total - 24 Periods				0	0	24	12			

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#### **CREDIT DISTRIBUTION**

S. No	Subject Area	Credits per Semester							ibject Area Credits per Semester				Total Credits	% of Credits
		I	II	III	IV	V	VI	VII	VIII					
1	HS	4	4					3		11	6.7			
2	BS	11	7	4	4					26	15.8			
3	ES	5	9	8						22	13.3			
4	PC			12	16	8	10	5		51	30.9			
5	PE					6	6	6		18	10.9			
6	OE					3	3	3		9	5.5			
7	EEC	1				1	1	5	12	20	12.1			
8	MC	2	2		2	2				8	4.8			
	Total	23	22	24	22	20	20	22	12	165				