

**B.Tech. CSE with Specialization in Product
Engineering with AI**
(Applicable to the students admitted from AY: 2025 onwards)



School of Engineering and Sciences
SRM University AP, Andhra Pradesh

ABBREVIATIONS	
AEC	Ability Enhancement Courses
VAC	Value Added Courses
SEC	Skill Enhancement Courses
FIC	Foundation & Interdisciplinary Courses
OE	Open Elective
RDIP	Research / Design / Industrial Practice / Project / Thesis / Internship
CE	Core Elective
CC	Core Course
SE	Stream Elective
TE	Technical Elective

SEMESTER - I							
S. No	Category	Sub- Category	Course Title	L	T/D	P/Pr	C
1	AEC	U AEC	Problem Solving and Critical Thinking	3	0	2	4
2	FIC	S FIC	Engineering Mathematics for Product Engineers	3	1	0	4
3	FIC	S FIC	AI Interaction Design	3	0	0	3
4	CC	CC	Problem Solving and Object-Oriented Programming Fundamentals	3	0	2	4
5	CC	CC	Data Structures and Algorithmic Problem Solving	3	0	2	4
6	RDIP	RDIP	Introduction to Global Coding Competitions	0	0	4	2
Semester Total				15	1	10	21

SEMESTER - II							
S. No	Category	Sub- Category	Course Title	L	T/D	P/Pr	C
1	VAC	U VAC	Environmental Science	2	0	0	2
2	SEC	D SEC	Frontend Web Development	3	0	2	4
3	FIC	S FIC	Engineering Essentials: Data Management and Presentation Tools	3	0	0	3
4	CC	CC	Introduction to Software Engineering and Version Control Systems	3	1	0	4
5	CC	CC	Java for Software Developers	3	0	2	4
6	CC	CC	Wireframing and Prototyping for UI/UX	3	0	2	4
Semester Total				17	1	6	21

SEMESTER - III							
S. No	Category	Sub- Category	Course Title	L	T/D	P/Pr	C
1	SEC	D SEC	Python Programming and Automation Scripts	3	0	2	4
2	SEC	D SEC	Database Management Systems	3	0	2	4
3	CC	CC	Software Testing Principles and Design	3	1	0	4
4	CC	CC	Introduction to Cloud Architecture	3	1	0	4
5	CC	CC	Computer Networks and Troubleshooting	3	1	0	4
6	RDIP	RDIP	Capstone Project – Phase I	0	0	8	4
Semester Total				15	3	12	24

SEMESTER - IV							
S. No	Category	Sub- Category	Course Title	L	T/D	P/Pr	C
1	SEC	D SEC	Mastering DevOps with Kubernetes and Terraform	3	0	2	4
2	FIC	S FIC	AI Literacy	3	1	0	4
3	CC	CC	Design and Analysis of Algorithms	3	0	2	4
4	CC	CC	Operating Systems and Troubleshooting	3	1	0	4
5	RDIP	RDIP	Capstone Project – Phase II	0	0	8	4
Semester Total				12	2	12	20

SEMESTER - V							
S. No	Category	Sub- Category	Course Title	L	T/D	P/Pr	C
1	CC	CC	Data Science Foundation	3	1	0	4
2	FIC	D FIC	Cybersecurity Foundation	3	0	2	4
3	CC	CC	Computer Organization and Architecture	3	1	0	4
4	AEC	U AEC	English LSRW + Soft Skills	3	0	2	4
5	RDIP	RDIP	Role-based Internship Work with Company	0	0	8	4
Semester Total				12	2	12	20

SEMESTER - VI							
S. No	Category	Sub- Category	Course Title	L	T/D	P/Pr	C
1	VAC	U VAC	Ethics, Values and Corporate Culture	3	1	0	4
2	SEC	D SEC	Software Product Lifecycle Management	3	1	0	4
3	FIC	S FIC	Entrepreneurship and Startup Ecosystem	3	0	2	4
4	CC	DE	Elective	3	0	2	4
5	RDIP	RDIP	Role-based Internship Work with Company	0	0	8	4
Semester Total				12	2	12	20

SEMESTER - VII							
S. No	Category	Sub- Category	Course Title	L	T/D	P/Pr	C
1	FIC	S FIC	Software Product Financial, Market and Economics Acumen	3	1	0	4
2	SEC	D SEC	Elective	3	0	2	4
3	CC	CE	Elective	3	0	2	4
4	CC	CE	Elective	3	0	2	4
5	RDIP	RDIP	Career Oriented Work with Company	0	0	12	6
Semester Total				12	1	18	22

SEMESTER - VIII							
S. No	Category	Sub- Category	Course Title	L	T/D	P/Pr	C
1	VAC	U VAC	Elective	3	0	2	4
2	RDIP	RDIP	Career Oriented Work with Company	0	0	24	12
Semester Total				3	0	26	16