

B.E. COMPUTER SCIENCE AND DESIGN
Minimum Credits to be Earned 134.0

First Semester

Code No.	Course	Objectives & Outcomes		L	T	P	C
		PEOs	POs				
22MA101	ENGINEERING MATHEMATICS I	-	-	3	1	0	4
22PH102	ENGINEERING PHYSICS	-	-	2	0	2	3
22CH103	ENGINEERING CHEMISTRY I	-	-	2	0	2	3
22GE001	FUNDAMENTALS OF COMPUTING	-	-	3	0	0	3
22HS001	FOUNDATIONAL ENGLISH	-	-	1	0	2	2
22GE004	BASICS OF ELECTRONICS ENGINEERING	-	-	2	0	2	3
22HS002	STARTUP MANAGEMENT	-	-	1	0	2	2
22CD108	COMPREHENSIVE WORK	-	-	0	0	2	1
Total				14	1	12	21.0

Second Semester

Code No.	Course	Objectives & Outcomes		L	T	P	C
		PEOs	POs				
22MA201	ENGINEERING MATHEMATICS II	-	-	3	1	0	4
22PH202	ELECTROMAGNETISM AND MODERN PHYSICS	-	-	2	0	2	3
22CH203	ENGINEERING CHEMISTRY II	-	-	2	0	2	3
22GE002	COMPUTATIONAL PROBLEM SOLVING	-	-	3	0	0	3
22GE003	BASICS OF ELECTRICAL ENGINEERING	-	-	2	0	2	3
22CD206	DIGITAL COMPUTER ELECTRONICS	I,III	a,b,c	3	0	2	4
	LANGUAGE ELECTIVE	-	-	3	0	0	3
22HS003	HERITAGE OF TAMILS	-	-	1	0	0	1
Total				19	1	8	24.0

Third Semester

Code No.	Course	Objectives & Outcomes		L	T	P	C
		PEOs	POs				
22CD301	PROBABILITY, STATISTICS AND QUEUEING THEORY	I,III	a,b	3	1	0	4
22CD302	DATA STRUCTURES I	I,II,III	a,b,c,d,e,k,l,m	3	0	2	4
22CD303	COMPUTER ORGANIZATION AND ARCHITECTURE	I,III	a,b,c,d,m	3	0	0	3
22CD304	PRINCIPLES OF PROGRAMMING LANGUAGES	I,II,III	a,b,c,e,g,h,i,j,k,o	3	0	2	4
22CD305	SOFTWARE ENGINEERING	I,II,III	d,e,f,g,h,j,k,l,m,n	3	0	0	3
22HS004	HUMAN VALUES AND ETHICS	-	-	2	0	0	2
22HS005	SOFT SKILLS AND EFFECTIVE COMMUNICATION	-	-	0	0	2	1
22HS006	TAMILS AND TECHNOLOGY	-	-	1	0	0	1
Total				18	1	6	22.0

Fourth Semester

Code No.	Course	Objectives & Outcomes		L	T	P	C
		PEOs	POs				
22CD401	DISCRETE MATHEMATICS	I,III	a,b	3	1	0	4
22CD402	DATA STRUCTURES II	-	-	3	0	2	4
22CD403	OPERATING SYSTEMS	-	-	3	1	0	4
22CD404	WEB TECHNOLOGY AND FRAMEWORKS	-	-	2	0	2	3
22CD405	DATABASE MANAGEMENT SYSTEMS	-	-	3	0	2	4
22HS007	ENVIRONMENTAL SCIENCE	-	-	2	0	0	0
22HS008	ADVANCED ENGLISH AND TECHNICAL EXPRESSION	-	-	0	0	2	1
Total				16	2	8	20.0

Fifth Semester

Code No.	Course	Objectives & Outcomes		L	T	P	C
		PEOs	POs				
22CD501	THEORY OF COMPUTATION	I,III	a,b,c,n	3	1	0	4
22CD502	VISUAL DESIGN AND COMMUNICATION	I,III	a,b,g,n	3	0	0	3
22CD503	DESIGN THINKING	I,II,III	a,c,f,k,l,m	3	0	0	3
22CD504	ANIMATION AND GRAPHICS	I,III	a,b,c,e,n	3	0	2	4
22CD507	MINI PROJECT I	-	-	0	0	2	1
Total				12	1	4	15.0

Sixth Semester

Code No.	Course	Objectives & Outcomes		L	T	P	C
		PEOs	POs				
22CD601	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	I,III	a,b,c,d,e,m	3	0	2	4
22CD602	COMPILER DESIGN	I,III	b,c,e,m,o	3	1	0	4

22CD603	HUMAN COMPUTER INTERACTION	I,III	a,b,c,m	3	0	0	3
22CD607	MINI PROJECT II	-	-	0	0	2	1
Total				9	1	4	12.0
Seventh Semester							
Code No.	Course	Objectives &Outcomes		L	T	P	C
		PEOs	POs				
22CD701	GAME DESIGN AND DEVELOPMENT	I,III	b,d,e,m,n,o	3	1	0	4
22CD702	MOBILE APPLICATION DESIGN AND DEVELOPMENT	I,III	b,d,e,n,o	3	0	2	4
22CD707	PROKECT WORK I	-	-	0	0	4	2
Total				6	1	6	10.0
Eight Semester							
Code No.	Course	Objectives &Outcomes		L	T	P	C
		PEOs	POs				
22CD801	PROJECT WORK II	-	-	0	0	20	10
Total				0	0	20	10.0
Electives							
Code No.	Course	Objectives &Outcomes		L	T	P	C
		PEOs	POs				
DISCIPLINE ELECTIVES							
22CD001	EXPLORATORY DATA ANALYSIS	I,III	a,b,c,d,e,m	2	0	2	3
22CD002	RECOMMENDER SYSTEMS	I,III	a,b,c,d,e,m	3	0	0	3
22CD003	BIG DATA ANALYTICS	I,III	a,b,c,e,m	3	0	0	3
22CD004	NEURAL NETWORKS AND DEEP LEARNING	I,III	a,b,c,e,n	2	0	2	3
22CD005	NATURAL LANGUAGE PROCESSING	I,III	a,b,c,e,m	3	0	0	3
22CD006	COMPUTER VISION	I,III	a,b,c,d,m	3	0	0	3
22CD007	AGILE SOFTWARE DEVELOPMENT	I,III	a,b,c,e,l,o	3	0	0	3
22CD008	UI AND UX DESIGN	I,III	a,b,c,e,m	3	0	0	3
22CD009	WEB FRAMEWORKS	I,II,III	a,b,e,i,j,m	3	0	0	3
22CD010	WEB APPLICATION AND SECURITY	I,III	a,b,e,o	3	0	0	3
22CD011	SOFTWARE TESTING AND AUTOMATION	I,III	a,b,c,e,o	3	0	0	3
22CD012	DEVOPS	I,III	a,b,c,d,e,m	2	0	2	3
22CD013	VIRTUALIZATION IN CLOUD COMPUTING	I,III	a,c,d,e,o	3	0	0	3
22CD014	CLOUD SERVICES AND DATA MANAGEMENT	I,III	a,b,c,d,e,o	3	0	0	3
22CD015	CLOUD STORAGE TECHNOLOGIES	I,III	a,b,c,d,e,o	3	0	0	3
22CD016	CLOUD AUTOMATION TOOLS AND APPLICATIONS	I,III	a,b,c,d,e,o	3	0	0	3
22CD017	SOFTWARE DEFINED NETWORKS	I,III	a,b,c,d,e,o	2	0	2	3
22CD018	SECURITY AND PRIVACY IN CLOUD	I,III	a,b,c,d,e,o	3	0	0	3
22CD019	MULTIMEDIA AND ANIMATION	I,III	a,b,c,d,e,n	2	0	2	3
22CD020	AUGMENTED REALITY/ VIRTUAL REALITY	I,III	a,b,c,e,n	2	0	2	3
22CD021	DIGITAL AUDIO AND VIDEO DESIGN	I,II,III	a,c,f,k,l,n	3	0	0	3
22CD022	VIDEO CREATION AND EDITING	I,III	a,b,c,e,n	2	0	2	3
22CD023	DIGITAL MARKETING	I,III	a,b,c,e,o	3	0	0	3
22CD024	HUMAN RESOURCE MANAGEMENT FOR ENTREPRENEURS	II	k,o	3	0	0	3
22CD025	SUPPLY CHAIN MANAGEMENT	I,III	a	3	0	0	3
22CD026	SOCIAL TEXT AND MEDIA ANALYTICS	II	k,o	3	0	0	3
22CD027	FINANCIAL MANAGEMENT	II	k,o	3	0	0	3
22CD028	MARKETING RESEARCH AND MANAGEMENT	-	-	3	0	0	3
22CD029	MULTIMEDIA DATA COMPRESSION	I,II,III	a,c,e,f,k,l,n	3	0	0	3
22CD030	STREAMING MEDIA TOOLS AND TECHNIQUES	I,III	a,b,c,d,e,l,n	2	0	2	3
22CD031	METVERSE	I,III	a,b,c,d,e,l,n	2	0	2	3
22CD032	IMAGE AND VIDEO ANALYTICS	I,II,III	a,c,f,k,l,n	3	0	0	3
22CD033	WEARABLE DEVICES AND APPLICATIONS	I,II,III	a,c,f,k,l,n	3	0	0	3
22CD034	3D PRINTING AND DESIGN	I,II,III	a,c,f,k,l,n	3	0	0	3

