SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATI MAHILA VISVAVIDYALAYAM
SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (CSE)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
R23 Regulations
I YEAR – I SEMESTER

THEORY

S.No	Course Type	Course Code	Course Title	L	T	P	Credits	Assignment Max. Marks	Objective Test Duration (min)	Objective Test Max. Marks	Subjective Test Duration (min)	Subjective Test Max. Marks	External Duration (hrs)	External Max. Marks	Total Marks
1	BS	23BST01	Linear Algebra & Calculus	3	0	0	3	5	20	10	90	15	3	70	100
2	BS	23BST03	Engineering Physics	3	0	0	3	5	20	10	90	15	3	70	100
3	BS	23BST05	Communicative English	2	0	0	2	5	20	10	90	15	3	70	100
4	ES	23CST01	Introduction to Programming	3	0	0	3	5	20	10	90	15	3	70	100
5	ES	23EET01	Basic Electrical and Electronics Engineering	3	0	0	3	5	20	10	90	15	3	70	100

PRACTICALS

S.No	Course Type	Course Code	Course Title	L	T	P	Credits	Continuous Max. Marks	Test Duration (hrs)	Test Max. Marks	External Duration (hrs)	External Max. Marks	Total Marks
6	BS	23BSP03	Engineering Physics Lab	0	0	2	1	15	2	15	3	70	100
7	BS	23BSP05	Communicative English Lab	0	0	2	1	15	2	15	3	70	100
8	ES	23CSP01	Computer Programming Lab	0	0	3	1.5	15	2	15	3	70	100
9	ES	23MEP01	Engineering Workshop	0	0	3	1.5	15	2	15	3	70	100
10	ES	23CSP02	IT Workshop	0	0	2	1	15	2	15	3	70	100
11	BS	23PEP01	Health, Wellness, Yoga and Sports	0	0	1	0.5	15	2	15	3	70	100
			Total	14	0	13	20.5						1100

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R23 Regulations
I YEAR – II SEMESTER

THEORY

S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Internal (30 Marks) Assignment Max. Marks	Objective Test Duration (min)	Objective Test Max. Marks	Subjective Test Duration (min)	Subjective Test Max. Marks	External (70 Marks) Duration (hrs)	External (70 Marks) Max. Marks	Total Marks
				L	T	P									
1	BS	23BST02	Differential Equations & Vector Calculus	3	0	0	3	5	20	10	90	15	3	70	100
2	BS	23BST04	Chemistry	3	0	0	3	5	20	10	90	15	3	70	100
3	ES	23CMT01	Basic Civil & Mechanical Engineering	3	0	0	3	5	20	10	90	15	3	70	100
4	PC	23CST02	Data Structures	3	0	0	3	5	20	10	90	15	3	70	100

PRACTICALS

S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Internal (30 Marks) Continuous Max. Marks	Test Duration (hrs)	Test Max. Marks	External (70 Marks) Duration (hrs)	External (70 Marks) Max. Marks	Total Marks
				L	T	P							
5	ES	23MED01	Engineering Graphics	1	0	4	3	15	2	15	3	70	100
6	BS	23BSP04	Chemistry Lab	0	0	2	1	15	2	15	3	70	100
7	ES	23EEP01	Electrical and Electronics Engineering Workshop	0	0	3	1.5	15	2	15	3	70	100
8	PC	23CSP03	Data Structures Lab	0	0	3	1.5	15	2	15	3	70	100
9	BS	23NSP01	NSS /Community Service	0	0	1	0.5	15	2	15			900
			Total	13	0	12	19.5						

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R23 REGULATIONS
II YEAR – I SEMESTER

THEORY

S.No	Course Type	Course Code	Course Title	Hours per Week L	T	P	Credits	Internal (30 Marks) Assignment Max. Marks	Objective Test Duration (min)	Max. Marks	Subjective Test Duration (min)	Max. Marks	External (70 Marks) Duration (hrs)	Max. Marks	Total Marks
1	BS	23BST07	Discrete Mathematics & Graph Theory	3	0	0	3	5	20	10	90	15	3	70	100
2	HM	23HMT01	Universal Human Values-Understanding Harmony & Human Ethical Conduct	2	1	0	3	5	20	10	90	15	3	70	100
3	ES	23CST03	Digital Logic & Computer Organization	3	0	0	3	5	20	10	90	15	3	70	100
4	PC	23CST04	Advanced Data Structures & Algorithm Analysis	3	0	0	3	5	20	10	90	15	3	70	100
5	PC	23CST05	Database Management Systems	3	0	0	3	5	20	10	90	15	3	70	100
6	MAN-HM	23HMT03	Environmental Science	2	0	0	-	Satisfactory / Not Satisfactory							

PRACTICALS

S.No	Course Type	Course Code	Course Title	Hours per Week L	T	P	Credits	Internal (30 Marks) Continuous Max. Marks	Test Duration (hrs)	Max. Marks	External (70 Marks) Duration (hrs)	Max. Marks	Total Marks
7	PC	23CSP04	Advanced Data Structures & Algorithm Analysis Lab	0	0	3	1.5	15	2	15	3	70	100
8	PC	23CSP05	Database Management Systems Lab	0	0	3	1.5	15	2	15	3	70	100
9	SC	23CSS01	Python Programming	0	1	2	2	15	2	15	3	70	100
			Total	16	2	8	20						800

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
R23 REGULATIONS
II YEAR – II SEMESTER

THEORY

S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Assignment	Objective Test		Subjective Test		External (70 Marks)		Total Marks
				L	T	P		Max. Marks	Duration (min)	Max. Marks	Duration (min)	Max. Marks	Duration (hrs)	Max. Marks	
1	HM	23HMT02	Managerial Economics and Financial Analysis	2	0	0	2	5	20	10	90	15	3	70	100
2	BS	23BST11	Probability & Statistics	3	0	0	3	5	20	10	90	15	3	70	100
3	PC	23CST06	Operating Systems	3	0	0	3	5	20	10	90	15	3	70	100
4	PC	23CST07	Object Oriented Programming Through Java	3	0	0	3	5	20	10	90	15	3	70	100
5	PC	23CST08	Formal Languages and Automata Theory	2	1	0	3	5	20	10	90	15	3	70	100

PRACTICALS

S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Continuous Max. Marks	Test Duration (hrs)	Test Max. Marks	External (70 Marks) Duration (hrs)	External (70 Marks) Max. Marks	Total Marks
				L	T	P							
6	PC	23CSP06	Operating Systems Lab	0	0	3	1.5	15	2	15	3	70	100
7	PC	23CSP07	Object Oriented Programming Through Java Lab	0	0	3	1.5	15	2	15	3	70	100
8	SC	23CSS02	Full Stack Development - I	0	1	2	2	15	2	15	3	70	100
9	HM	23HMP01	Design Thinking & Innovation	1	0	2	2	15	2	15	3	70	100
			Total	14	2	10	21						900

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R23 REGULATIONS
III YEAR – I SEMESTER

THEORY

S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation						Total Marks
								Internal (30 Marks)					External (70 Marks)	
								Assignment	Objective Test		Subjective Test			
				L	T	P		Max. Marks	Duration (min)	Max. Marks	Duration (min)	Max. Marks	Duration (hrs)	Max. Marks
1	PC	23CST09	Artificial Intelligence	3	0	0	3	5	20	10	90	15	3	70	100
2	PC	23CST10	Computer Networks	3	0	0	3	5	20	10	90	15	3	70	100
3	PC	23CST11	Software Engineering	3	0	0	3	5	20	10	90	15	3	70	100
4	PE		Professional Elective - 1	3	0	0	3	5	20	10	90	15	3	70	100
5	OE		Open Elective - 1	3	0	0	3	5	20	10	90	15	3	70	100

PRACTICALS

S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation			External (70 Marks)		Total Marks
								Internal (30 Marks)					
								Continuous	Test				
				L	T	P		Max. Marks	Duration (hrs)	Max. Marks	Duration (hrs)	Max. Marks	
6	PC	23CSP08	Artificial Intelligence Lab	0	0	3	1.5	15	2	15	3	70	100
7	PC	23CSP09	Computer Networks Lab	0	0	3	1.5	15	2	15	3	70	100
8	SC	23CSS03	Full Stack Development - II	0	1	2	2	15	2	15	3	70	100
9	ES	23BSP07	Tinkering Lab	0	0	2	1	15	2	15	3	70	100
10	Intern	23CSI01	Internship - 1	-	-	-	2	100			-		100
			Total	15	1	10	23						1000

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III YEAR – II SEMESTER

THEORY

S.No	Course Type	Course Code	Course Title	Hours per Week L	T	P	Credits	Assignment Max. Marks	Objective Test Duration (min)	Objective Test Max. Marks	Subjective Test Duration (min)	Subjective Test Max. Marks	External (70 Marks) Duration (hrs)	External (70 Marks) Max. Marks	Total Marks
1	PC	23CST12	Compiler Design	3	0	0	3	5	20	10	90	15	3	70	100
2	PC	23CST13	Machine Learning	3	0	0	3	5	20	10	90	15	3	70	100
3	PC	23CST14	Cryptography & Network Security	3	0	0	3	5	20	10	90	15	3	70	100
4	PE		Professional Elective - II	3	0	0	3	5	20	10	90	15	3	70	100
5	PE		Professional Elective - III (Mandatory MOOC)	3	0	0	3	5	20	10	90	15	3	70	100
6	OE		Open Elective - II	3	0	0	3	5	20	10	90	15	3	70	100
7	MAN	23BST13	Technical Paper Writing & IPR	2	0	0	-	Satisfactory / Not Satisfactory							

PRACTICALS

S.No	Course Type	Course Code	Course Title	Hours per Week L	T	P	Credits	Continuous Max. Marks	Test Duration (hrs)	Test Max. Marks	External (70 Marks) Duration (hrs)	External (70 Marks) Max. Marks	Total Marks
8	PC	23CSP10	Machine Learning Lab	0	0	3	1.5	15	2	15	3	70	100
9	PC	23CSP11	Cryptography & Network Security Lab	0	0	3	1.5	15	2	15	3	70	100
10	SC	23BSS01	Soft Skills	0	1	2	2	15	2	15	3	70	100
			Total	20	1	8	23						900

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R23 REGULATIONS
IV YEAR – I SEMESTER

THEORY

S.No	Course Type	Course Code	Course Title	Hours per Week L	T	P	Credits	Internal (30 Marks) Assignment Max. Marks	Objective Test Duration (min)	Max. Marks	Subjective Test Duration (min)	Max. Marks	External (70 Marks) Duration (hrs)	Max. Marks	Total Marks
1	PC	23CST15	Big Data Analytics	3	0	0	3	5	20	10	90	15	3	70	100
2	PC	23MET43	Optimization Techniques	2	0	0	2	5	20	10	90	15	3	70	100
3	PE		Professional Elective - IV	3	0	0	3	5	20	10	90	15	3	70	100
4	PE		Professional Elective - V	3	0	0	3	5	20	10	90	15	3	70	100
5	OE		Open Elective - III	3	0	0	3	5	20	10	90	15	3	70	100
6	OE		Open Elective - IV	3	0	0	3	5	20	10	90	15	3	70	100
7	MAN	23BST15	Gender Sensitization	2	0	0	-	Satisfactory / Not Satisfactory							

PRACTICALS

S.No	Course Type	Course Code	Course Title	Hours per Week L	T	P	Credits	Internal (30 Marks) Continuous Max. Marks	Test Duration (hrs)	Max. Marks	External (70 Marks) Duration (hrs)	Max. Marks	Total Marks
8	SC	23CSS04	Prompt Engineering	0	1	2	2	15	2	15	3	70	100
9	Intern	23CSI02	Internship - 2	-	-	-	2	100		-			100
			Total	18	2	2	21						800

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R23 REGULATIONS
IV YEAR – II SEMESTER

S.No	Course Type	Course Code	Course Title	Hours per Week			Credits	Evaluation		Total Marks
				L	T	P		Internal Marks	External Marks	
1	PW	23CSJ01	Internship - 3 & Project Work	0	0	24	12	60	140	200
										200
			Total	0	0	24	12			

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R23 REGULATIONS
LIST OF PROFESSIONAL ELECTIVES

PROFESSIONAL ELECTIVE - I

S. No	Course Code	Course Title
1	23CST16	Computer Architecture
2	23CST17	Computer Graphics
3	23ECT42	Microprocessors & Interfacing
4	23CST18	Data Mining
5	23CST19	Soft Computing
6	23CSM01	12 week MOOC Swayam/NPTEL Course recommended by the HoD

PROFESSIONAL ELECTIVE - II

S. No	Course Code	Course Title
1	23CST20	Object Oriented Analysis and Design
2	23CST21	DevOps
3	23CST22	Bio Informatics
4	23CST23	Software Testing Methodologies
5	23CST24	Cloud Computing
6	23CSM02	12 week MOOC Swayam/NPTEL Course recommended by the HoD

PROFESSIONAL ELECTIVE - III

S. No	Course Code	Course Title
1	23CSM03	Mandatory MOOC

PROFESSIONAL ELECTIVE - IV

S. No	Course Code	Course Title
1	23CST25	Deep Learning
2	23CST26	Information Security
3	23CST27	Software Project Management
4	23CST28	Wireless Networks
5	23CST29	Block Chain Technologies
6	23CSM04	12 week MOOC Swayam/NPTEL Course recommended by the HoD

PROFESSIONAL ELECTIVE - V

S. No	Course Code	Course Title
1	23CST30	Cyber Security
2	23CST31	Natural Language Processing
3	23CST32	Internet of Things
4	23CST33	Augmented Reality & Virtual Reality
5	23CST34	Data Science
6	23CSM05	12 week MOOC Swayam/NPTEL Course recommended by the HoD

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R23 REGULATIONS
LIST OF OPEN ELECTIVES OFFERED BY CSE TO OTHER DEPARTMENTS

OPEN ELECTIVE - I

S. No	Course Code	Course Title
1	23CST09	Artificial Intelligence
2	23CST14	Cryptography & Network Security
3	23CST35	HTML & CSS

OPEN ELECTIVE - III

S. No	Course Code	Course Title
1	23CST13	Machine Learning
2	23CST30	Cyber Security
3	23CST37	React

OPEN ELECTIVE - II

S. No	Course Code	Course Title
1	23CST25	Deep Learning
2	23CST26	Information Security
3	23CST36	JavaScript

OPEN ELECTIVE - IV

S. No	Course Code	Course Title
1	23CST24	Cloud Computing
2	23CST29	Blockchain Technologies
3	23CST21	DevOps

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LIST OF OPEN ELECTIVES OFFERED BY OTHER DEPARTMENTS TO CSE

OPEN ELECTIVE - I

S.No	Course Code	Course Title	Offering Departmen
1	23ECT30	Digital Circuits	ECE
2	23ECT31	Principles of Signal Processing	
3	23ECT32	Microcontrollers and Applications	
4	23EET25	Renewable Energy Sources	EEE
5	23EET26	Concepts of Control Systems	
6	23EET27	Concepts of Energy Auditing & Management	
7	23MET28	Sustainable Energy Technologies	ME
8	23MET29	Applied Operations Research	
9	23MET30	Nano Technology	
10	23MET31	Thermal Management of Electronic Systems	
11	23MET32	Entrepreneurship	
12	23MUP01	Music - Vocal	BS&H

OPEN ELECTIVE - II

S.No	Course Code	Course Title	Offering Departmen
1	23ECT33	Principles of Communication Engineering	ECE
2	23ECT34	Transducers and Sensors	
3	23ECT35	Electronic Measuring Instrument	
4	23EET28	Fundamentals of utilization of Electrical Energy	EEE
5	23EET29	Fundamentals of Power Electronics	
6	23EET30	Concepts of Power System Engineering	
7	23MET33	Introduction to Industrial Robotics	ME
8	23MET34	Work Study and Industrial Ergonomics	
9	23MET35	Customer Relationship Management	
10	23MET36	Hybrid Vehicles	
11	23MET37	Industrial Safety	
12	23MUP02	Dance	BS&H

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LIST OF OPEN ELECTIVES OFFERED BY OTHER DEPARTMENTS TO CSE

OPEN ELECTIVE - III

S.No	Course Code	Course Title	Offering Department
1	23ECT36	Information Theory & Coding	ECE
2	23ECT37	Digital Image Processing	
3	23ECT38	Fundamentals of Computer Communications & Networks	
4	23EET31	Fundamentals of Electric Vehicles	EEE
5	23EET32	Battery Management Systems and Charging Stations	
6	23EET33	Concepts of Smart Grid Technologies	
7	23MET38	3D Printing Technologies	ME
8	23MET39	Introduction to Mechatronics	
9	23MET40	Robot Programming	
10	23MET41	Product Design and Development	
11	23MET42	Digital Marketing Management	
12	23BST16	LSRW Skills	BS&H

OPEN ELECTIVE - IV

S.No	Course Code	Course Title	Offering Department
1	23ECT39	Information IoT	ECE
2	23ECT40	Embedded Systems	
3	23ECT41	Wireless Sensor Networs	
4	23EET34	Concepts of Power Quality	EEE
5	23EET35	Intelligent Control Systems	
6	23EET36	Electric Drives	
7	23MET43	Optimization Techniques	ME
8	23MET44	Advanced Manufacturing Systems	
9	23MET45	Total Quality Management	
10	23MET46	Operations Management	
11	23MET47	Energy Auditing	
12	23HMT03	Data Analytics for Decision Making	BS&H

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