

**SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATI MAHILA VISVAVIDYALAYAM
(Women's University)
TIRUPATI – 517 502, ANDHRA PRADESH**



B.TECH - SCHEME – R19

**Department of Computer Science and Engineering
Effective from 2019-20 under CBCS**

SCHEME OF EVALUATION

SCHOOL OF ENGINEERING AND TECHNOLOGY
SRI PADMAVATI MAHILA VISVAVIDYALAYAM
SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (CSE)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
I YEAR – I SEMESTER (2019-20)

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)			External (70 Marks)		
							Assignment	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
1	19BST04	Engineering Mathematics – 1	3	1	0	4	5	2	25	3	70	100
2	19BST03	Engineering Physics	3	1	0	4	5	2	25	3	70	100
3	19BST01	Functional English	3	0	0	3	5	2	25	3	70	100
4	19ECT01	Basic Electronics Engineering	2	1	0	3	5	2	25	3	70	100
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)			External (60 Marks)		
							Continuous	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
5	19BSP03	Engineering Physics Lab	0	0	2	1	20	2	20	3	60	100
6	19BSP01	Communicative English Lab	0	0	2	1	20	2	20	3	60	100
7	19MEP03	Workshop and Manufacturing Practices Lab	0	0	4	2	20	2	20	3	60	100
8	19ECP01	Basic Electronics Engineering Lab	0	0	2	1	20	2	20	3	60	100
Total			11	3	10	19						800

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
I YEAR – II SEMESTER(2019-20)

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)			External (70 Marks)		
							Assignment	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
1	19BST05	Engineering Mathematics – II	3	1	0	4	5	2	25	3	70	100
2	19BST02	Engineering Chemistry	3	1	0	4	5	2	25	3	70	100
3	19CST01	Programming for Problem Solving	2	1	0	3	5	2	25	3	70	100
4	19EET01	Basic Electrical Engineering	2	1	0	3	5	2	25	3	70	100
5	19BST13	Essence of Indian Knowledge Tradition	3	0	0	Satisfactory / Not Satisfactory						
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)			External (60 Marks)		
							Continuous	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
6	19BSP02	Engineering Chemistry Lab	0	0	2	1	20	2	20	3	60	100
7	19CSP01	Programming for Problem Solving Lab	0	0	4	2	20	2	20	3	60	100
8	19EEP01	Basic Electrical Engineering Lab	0	0	2	1	20	2	20	3	60	100
9	19MEP01	Engineering Graphics Lab	0	0	6	3	20	2	20	3	60	100
Total			13	4	14	21						800

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
II YEAR – I SEMESTER(2019-20)

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)		External (70 Marks)			
							Assignment	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
1	19BST08	Economics and Accountancy	3	1	0	4	5	2	25	3	70	100
2	19ECT32	Digital Logic Design	2	1	0	3	5	2	25	3	70	100
3	19MET16	Operations Research	3	1	0	4	5	2	25	3	70	100
4	19CST02	Discrete Mathematics	2	1	0	3	5	2	25	3	70	100
5	19CST03	Data Structures	2	1	0	3	5	2	25	3	70	100
6	19CST04	Data Communications	3	0	0	3	5	2	25	3	70	100
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)		External (60 Marks)			
							Continuous	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
7	19ECP12	Digital Logic Design Lab	0	0	2	1	20	2	20	3	60	100
8	19CSP02	Data structures Lab	0	0	2	1	20	2	20	3	60	100
9	19CSP03	IT Workshop	0	0	2	1	20	2	20	3	60	100
Total			15	5	6	23						900

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OF INSTRUCTION AND EVALUATION OF B.TECH (CSE)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
II YEAR – II SEMESTER (2019-20)

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)			External (70 Marks)		
							Assignment	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
1	19BST07	Probability and Statistics	2	1	0	3	5	2	25	3	70	100
2	19BST09	Industrial Management	3	0	0	3	5	2	25	3	70	100
3	19CST05	Computer Architecture and Organization	2	1	0	3	5	2	25	3	70	100
4	19CST06	Object Oriented Programming	2	1	0	3	5	2	25	3	70	100
5	19CST07	Database Management Systems	2	1	0	3	5	2	25	3	70	100
6	19CST08	Theory of Computation	2	1	0	3	5	2	25	3	70	100
7	19BST12	Environmental Studies	3	0	0	0	Satisfactory / Not Satisfactory					
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)			External (60 Marks)		
							Continuous	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
8	19CSP04	Object Oriented Programming Lab	0	0	2	1	20	2	20	3	60	100
9	19CSP05	Database Management Systems Lab	0	0	2	1	20	2	20	3	60	100
10	19CSP06	Mathematical Tool Kit Lab	0	0	2	1	20	2	20	3	60	100
Total			16	5	6	21						900

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SCHEME OF INSTRUCTION AND EVALUATION OF B.TECH (CSE)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
III YEAR – I SEMESTER(2019-20)

I
II

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)			External (70 Marks)		
							Assignment	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
1	19BST10	Entrepreneurship and Project Management	3	0	0	3	5	2	25	3	70	100
2	19CST09	Design and Analysis of Algorithms	2	1	0	3	5	2	25	3	70	100
3	19CST10	Operating Systems	2	1	0	3	5	2	25	3	70	100
4	19CST11	Compiler Design	2	1	0	3	5	2	25	3	70	100
5	19CST12	Software Engineering	3	0	0	3	5	2	25	3	70	100
6		Elective – I	2	1	0	3	5	2	25	3	70	100
7	19BST11	Constitution of India	3	0	0	0	Satisfactory / Not Satisfactory					
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)			External (60 Marks)		
							Continuous	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
8	19CSP07	Operating Systems Lab	0	0	2	1	20	2	20	3	60	100
9	19CSP08	Software Engineering and Object Oriented Analysis and Design Lab	0	0	2	1	20	2	20	3	60	100
Total			17	4	4	20						800

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III YEAR – II SEMESTER(2019-20)

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)			External (70 Marks)		
							Assignment	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
1	19CST13	Machine Learning	2	1	0	3	5	2	25	3	70	100
2	19CST14	Computer Networks	2	1	0	3	5	2	25	3	70	100
3	19CST15	Artificial Intelligence	2	1	0	3	5	2	25	3	70	100
4		Elective – II	2	1	0	3	5	2	25	3	70	100
5		Elective – III	2	1	0	3	5	2	25	3	70	100
6		Open Elective – I	3	0	0	3	5	2	25	3	70	100
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)			External (60 Marks)		
							Continuous	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
7	19CSP09	Machine Learning and Artificial Intelligence Lab	0	0	2	1	20	2	20	3	60	100
8	19CSP10	Computer Networks Lab	0	0	2	1	20	2	20	3	60	100
Total			13	5	4	20						800

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IV YEAR – I SEMESTER(2019-20)

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)			External (70 Marks)		
							Assignment	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
1	19CST16	Cryptography and Network Security	2	1	0	3	5	2	25	3	70	100
2	19CST17	Internet and Web Programming	2	1	0	3	5	2	25	3	70	100
3	19CSM01	Elective – IV (Mandatory MOOCs)	0	0	0	3	0	0	0	0	0	0
4		Open Elective – II	3	0	0	3	5	2	25	3	70	100
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)			External (60 Marks)		
							Continuous	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
5	19CSP11	Cryptography and Network Security Lab	0	0	2	1	20	2	20	3	60	100
6	19CSP12	Internet and Web Programming Lab	0	0	2	1	20	2	20	3	60	100
7	19CSI01	Internship	0	0	0	2	100	0	0	0	0	100
8	19CSS01	Technical Seminar	0	0	2	1	100	0	0	0	0	100
9	19CSJ01	Project Work Phase – I	0	0	4	2	100	0	0	0	0	100
Total			7	2	10	19						800

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IV YEAR – II SEMESTER (2019-20)

THEORY												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (30 Marks)			External (70 Marks)		
							Assignment	Test				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
1		Elective – V	2	1	0	3	5	2	25	3	70	100
2		Elective – VI	2	1	0	3	5	2	25	3	70	100
3		Open Elective – III	3	0	0	3	5	2	25	3	70	100
PRACTICALS												
S.No	Course Code	Course Title	Hours per Week			Credits	Evaluation					Total Marks
							Internal (40 Marks)			External (60 Marks)		
							Continuous	Internal Exam				
			L	T	P		Max. Marks	Duration	Max.	Duration	Max.	
4	19CSJ02	Project Work Phase – II	0	0	16	8	40	0	0	0	60	100
Total			7	2	16	17						400

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LIST OF ELECTIVES (2019-20)

ELECTIVE – I

S. No	Course Code	Course Title
1	19CST18	System Programming
2	19CST19	Software Project Management
3	19CST20	Neural Networks

ELECTIVE – II

S. No	Course Code	Course Title
1	19CST21	Software Testing
2	19CST22	Data Mining
3	19CST23	Deep Learning

ELECTIVE – III

S. No	Course Code	Course Title
1	19CST24	Cloud Computing
2	19CST25	Distributed Computing
3	19CST26	Big Data Analytics

ELECTIVE – IV

S. No	Course Code	Course Title
1	19CSM01	Mandatory MOOCs

ELECTIVE – V

S. No	Course Code	Course Title
1	19CST27	Wireless Networks
2	19CST28	Information Security
3	19CST29	Data Science

ELECTIVE – VI

S. No	Course Code	Course Title
1	19CST30	Cyber Physical Systems
2	19CST31	Fault Tolerant Computing
3	19CST32	Speech and Natural Language Processing

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LIST OF OPEN ELECTIVES OFFERED BY CSE TO OTHER DEPARTMENTS (2019-20)

OPEN ELECTIVE – I

S. No	Course Code	Course Title
1	19CST33	Basics of Data Structures
2	19CST34	Introduction to C++ Programming
3	19CSP13	Advanced Programming Lab
4	19CST35	Fundamentals of Computer Organization

OPEN ELECTIVE – II

S. No	Course Code	Course Title
1	19CST36	Basics of Computer Networks
2	19CST37	Introduction to programming with Python
3	19CST38	Introduction to Database Management Systems
4	19CST39	Introduction to Cloud Computing

OPEN ELECTIVE – III

S. No	Course Code	Course Title
1	19CST40	Introduction to Cyber Security
2	19CST41	Introduction to Artificial Intelligence
3	19CST42	Introduction to Java Programming
4	19CST43	Fundamentals of Internet of Things

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LIST OF OPEN ELECTIVES OFFERED BY OTHER DEPARTMENTS TO CSE (2019-20)

OPEN ELECTIVE-I

S.No	Course Code	Course Title	Offering Department
1	19ECT33	Pulse and Digital Circuits	ECE
2	19ECT34	Electronic Measurements	
3	19EET31	Electrical Engineering Materials	EEE
4	19EET32	Energy Auditing & Demand Side Management	
5	19MEP13	Engineering Projects in Community Services (Project based)	ME
6	19MET36	Time and Motion Study	
7	19MET37	Nano Technology	
8	19MUP01	Music Vocal	BS&H
9	19MUP02	Dance Bharatanatyam	
10	19MUP03	Dance Kuchipudi	

OPEN ELECTIVE – III

S.No	Course Code	Course Title	Offering Department
1	19ECT38	Microcontrollers & Interfacing	ECE
2	19ECT39	Basics of Embedded Systems	
3	19ECT40	Digital Image Processing	EEE
4	19EET35	Conventional & Non-Conventional Energy Sources	
5	19EET36	Design Costing of Electrical System	ME
6	19MET41	Total Quality Management	
7	19MET42	Production Planning & Control	
8	19MET43	Supply Chain Management	BS&H
9	19BST15	Data Analytics for Decision Making	

OPEN ELECTIVE – II

S.No	Course Code	Course Title	Offering Department
1	19ECT35	Communication Systems	ECE
2	19ECT36	Microprocessors & Interfacing	
3	19ECT37	Digital Design using VHDL	
4	19EET33	Artificial Neural Networks	EEE
5	19EET34	Energy Storage Systems	
6	19MET39	Power Plant Engineering	ME
7	19MET40	Plant Layout and Design	
9	19BST14	LSRW Skills	BS&H

