SETHU INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)

Estd. 1995

Pulloor, Kariapatti – 626 115

M.E. COMPUTER SCIENCE & ENGINEERING

REGULATION 2019

CHOICE BASED CREDIT SYSTEM

CURRICULUM & SYLLABUS

(1st SEMESTER To 4th SEMESTER)

Approved in the Academic Council Meeting held on 21.09.2019

CHAIRPERSON

Chairperson
Board of Studies
Computer Science & Engineering
Sethu Institute of Technology
Kariapatti - 626 115

CHAIRMAN

ACADEMIC COUNCIL

CHAIRMAN
ACADEMIC COUNCIL
Sethu Institute of Technology
Pulloor, Kariapatti - 625 115

1

SETHU INSTITUTE OF TECHNOLOGY, Pulloor, Kariapatti – 626 115

M.E. Degree Programme

CBCS CURRICULUM

Regulations 2019

(Applicable to the students admitted from the Academic Year 2019-2020 onwards)

Master of Engineering in COMPUTER SCIENCE AND ENGINEERING

OVERALL COURSE STRUCTURE

Category	Total No. of Courses	Credits	Percentage
Programme-CORE	8	20	28.57
Programme- ELECTIVE	5	15	21.43
Open Elective	1	3	4.28
Project Work	3	29	41.43
Mandatory Credit Course	1	3	4.28
Audit Course	2	-	-
TOTAL	20	70	100

COURSE CREDITS – SEMESTER WISE

Branch	I	II	III	IV	TOTAL
M.E(CSE)	16	16	22	16	70

Employability Courses
Skill Development Courses
Entrepreneurship Development Courses
Any two or all of the above

SEMESTER I

S.No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	19PCS101	Advanced Data Structures and Algorithms	3	0	0	3
2.	19PCS102	Advanced DatabaseTechnologies	3	0	0	3
3.		Program Elective I	3	0	0	3
4.	19PGM701	Research Methodology and IPR	3	0	0	3
5.	19PGM801	Pedagogy Studies(Audit Course I)	2	0	0	0
PRACTICAL						
6.	19PCS103	Advanced Data Structures Laboratory	0	0	4	2
7	19PCS104	Advanced DatabaseTechnologies Laboratory	0	0	4	2
		Total	14	0	8	16
Total Number of Credits: 16						

SEMESTER II

S.No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	19PCS201	Image Processing and Analysis	3	0	0	3
2.	19PCS202	Cloud Computing Technologies	3	0	0	3
3.		Program Elective II	3	0	0	3
4.	19PGM802	English for Research Paper Writing(Audit Course 2)	2	0	0	0
PRACTICAL						
5.	19PCS203	Image Processing and Analysis Laboratory	0	0	4	2
6.	19PCS204	Cloud Computing Technologies Laboratory	0	0	4	2
7.	19PCS205	Mini Project with Seminar	0	0	6	3
		Total	11	0	14	16
Total Number of Credits: 16						

SEMESTER III

S.No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.		Program Elective III	3	0	0	3
2.		Program Elective IV	3	0	0	3
3.		Program Elective V	3	0	0	3
4.		Open Elective	3	0	0	3
PRACTICAL						
5.	19PCS301	Dissertation-I /Industrial Project	0	0	20	10
		Total	12	0	20	22
Total Number of Credits: 22						

SEMESTER IV

S.No.	COURSE CODE	COURSE TITLE	L	T	P	C
PRACTICAL						
1.	19PCS401	Dissertation II	0	0	32	16
		Total	0	0	32	16
Total Number of Credits: 16						

TOTAL NO. OF CREDITS: 70

PROGRAM ELECTIVES

S.No.	COURSE CODE	COURSE TITLE	L	T	P	C
1	19PMA501	Mathematical foundations of Computer Science	3	0	0	3
2	19PCS502	Data Warehouse and Data Mining	3	0	0	3
3	19PCS503	Operating System Design	3	0	0	3
4	19PCS504	Big Data Analytics	3	0	0	3
5	19PCS505	Machine Learning Techniques	3	0	0	3
6	19PCS506	Multicore Architecture	3	0	0	3
7	19PCS507	Data Storage Technologies and Networks	3	0	0	3
8	19PCS508	Web Analytics and Development	3	0	0	3
9	19PCS509	Digital Forensics	3	0	0	3
10	19PCS510	Biometrics	3	0	0	3
11	19PCS511	Soft Computing	3	0	0	3
12	19PCS512	Security in Computing	3	0	0	3
13	19PCS513	Deep Learning Techniques	3	0	0	3
14	19PCS514	Introduction to Intelligent Systems	3	0	0	3
15	19PCS515	Essentials of Human Computer Interaction	3	0	0	3
16	19PCS516	Optimization Techniques	3	0	0	3
17	19PCS517	Compiler for High Performance Computing	3	0	0	3
18	19PCS518	Cluster and Grid Computing	3	0	0	3
19	19PCS519	Parallel Algorithms	3	0	0	3
20	19PCS520	Wireless Access Technologies	3	0	0	3
21	19PCS521	Video Analytics	3	0	0	3
22	19PCS522	Social Network Analysis	3	0	0	3
23	19PCS523	Software Architectures and Design	3	0	0	3
24	19PCS524	Embedded Software Development	3	0	0	3
25	19PCS525	Smart Sensors and Internet of Things	3	0	0	3

OPEN ELECTIVES

S.No.	COURSE CODE	COURSE TITLE	L	T	P	C
1	19PCD601	Industrial Safety	3	0	0	3
2	19PCS602	Business Analytics	3	0	0	3
3	19PCM603	IOT for Smart Applications	3	0	0	3
4	19PPE604	Bioenergy from Waste	3	0	0	3
5	19PSE605	Smart City Technologies	3	0	0	3

Audit course 1 & 2

1. English for Research Paper Writing

2. Disaster Management

3. Sanskrit for Technical Knowledge

4. Value Education

5. Constitution of India

6. Pedagogy Studies

7. Stress Management by Yoga

8. Personality Development through Life Enlightenment Skills.