

**MRSPTU B.TECH WITH MINOR DEGREE IN CSE SYLLABUS
2018 BATCH ONWARDS**

Table No. 1: List of Core Subjects for Minor Engineering in COMPUTER SCIENCE & ENGINEERING

Sr. No.	Course Code (MRSPTU)	Course Title	Hours per week			Marks			Total Contact hrs.	Credits
			Lectures	Tutorials	Practicals	Int.	Ext.	Total		
CORE COURSES			Lectures	Tutorials	Practicals	Int.	Ext.	Total		
1.	BCSEM1-001	Data structure & Algorithms	3	1	0	40	60	100	4	4
2.	BCSEM1-002	Operating Systems	3	1	0	40	60	100	4	4
3.	BCSEM1-003	Database Management System	3	0	0	40	60	100	3	3
4.	BCSEM1-004	Computer Networks	3	1	0	40	60	100	4	4
5.	BCSEM1-051	Data structure & Algorithms Laboratory	0	0	4	60	40	100	4	2
6.	BCSEM1-052	Operating Systems Laboratory	0	0	2	60	40	100	2	1
7.	BCSEM1-053	Database Management System Laboratory	0	0	4	60	40	100	4	2
8.	BCSEM1-054	Computer Network Laboratory	0	0	2	60	40	100	2	1

Note: A student must select at least **Two theory subjects** from Table 1.

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Table No. 2: List of Elective Subjects for Minor Engineering in COMPUTER SCIENCE & ENGINEERING

Sr. No.	Course Code (MRSPTU)	Course Title	Hours per week			Marks			Total Contact hrs.	Credits
			Lectures	Tutorials	Practicals	Int.	Ext.	Total		
ELECTIVE COURSES										
Theory and Algorithms Group – A student can select only one theory subject from this group										
1.	BCSEM1-005	Graph Theory	3	0	0	40	60	100	3	3
2.	BCSEM1-006	Parallel Processing	3	0	0	40	60	100	3	3
3.	BCSEM1-007	Java Programming	3	0	0	40	60	100	3	3
System Group – A student can select only one theory subject from this group										
4.	BCSEM1-008	Computer Organization & Architecture	3	0	0	40	60	100	3	3
5.	BCSEM1-009	Software Engineering	3	0	0	40	60	100	3	3
6.	BCSEM1-010	Distributed Systems	3	0	0	40	60	100	3	3
7.	BCSEM1-011	Embedded Systems	3	0	0	40	60	100	3	3
8.	BCSEM1-012	Adhoc and Sensor Networks	3	0	0	40	60	100	3	3
9.	BCSEM1-013	Internet of things	3	0	0	40	60	100	3	3
Data Science and Machine Intelligence Group – A student can select only one theory subject from this group										
10.	BCSEM1-014	Artificial Intelligence	3	0	0	40	60	100	3	3
11.	BCSEM1-015	Machine Learning	3	0	0	40	60	100	3	3
12.	BCSEM1-016	Data Mining	3	0	0	40	60	100	3	3
13.	BCSEM1-017	Soft Computing	3	0	0	40	60	100	3	3
Application Group – A student can select only one theory subject from this group										
14.	BCSEM1-018	Image Processing	3	0	0	40	60	100	3	3
15.	BCSEM1-019	Cloud Computing	3	0	0	40	60	100	3	3
16.	BCSEM1-020	Human Computer Interaction	3	0	0	40	60	100	3	3
17.	BCSEM1-021	Computer Graphics	3	0	0	40	60	100	3	3

Note: Rest of the three subjects can be taken from the list of **three Elective groups** of Table 2. A student can choose only one from each elective group.