

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
M.Tech. – CSE
(Course Structure – MLR20 Regulations)

I M.Tech I Semester									
Course Code	Course Title	Category	Hours per Week			Credits	Scheme of Examination Maximum Marks		
			L	T	P		Internal (CIE)	External (SEE)	Total
B45801	Advanced Data Structures	CC	3	-	-	3	25	75	100
B45802	Cloud Computing	CC	3	-	-	3	25	75	100
B45803	Advanced Database Engineering	CC	3	-	-	3	25	75	100
PE	Professional Elective - I	PE	3	-	-	3	25	75	100
PE	Professional Elective - II	PE	3	-	-	3	25	75	100
B45810	Advanced Data Structures Lab	CC	-	-	3	1.5	25	75	100
B45811	Cloud Computing Lab	CC	-	-	3	1.5	25	75	100
AC	Audit Course - I	AC	2	-	-	-	25	75	100
TOTAL			17	-	6	18	200	600	800

I M.Tech II Semester									
Course Code	Course Title	Category	Hours per Week			Credits	Scheme of Examination Maximum Marks		
			L	T	P		Internal (CIE)	External (SEE)	Total
B45812	Machine Learning	CC	3	-	-	3	25	75	100
B45813	Big Data Engineering	CC	3	-	-	3	25	75	100
B45814	Advanced Computer Networks	CC	3	-	-	3	25	75	100
PE	Professional Elective – III	PE	3	-	-	3	25	75	100
PE	Professional Elective – IV	PE	3	-	-	3	25	75	100
B45821	Machine Learning Lab	CC	-	-	3	1.5	25	75	100
B45822	Big Data Engineering Lab	CC	-	-	3	1.5	25	75	100
AC	Audit Course - II	AC	2	-	-	-	25	75	100
TOTAL			17	-	6	18	200	600	800

II M.Tech I Semester									
Course Code	Course Title	Category	Hours per Week			Credits	Scheme of Examination Maximum Marks		
			L	T	P		Internal (CIE)	External (SEE)	Total
PE	Professional Elective - V	PE	3	-	-	3	25	75	100
OE	Open Elective	OE	3	-	-	3	25	75	100
B45830	Technical Seminar	SEM	2	-	-	2	100	-	100
B45831	Dissertation Phase - I	PWC	-	-	16	8	100	-	100
TOTAL			8	-	16	16	250	150	400

II M.Tech II Semester									
Course Code	Course Title	Category	Hours per Week			Credits	Scheme of Examination Maximum Marks		
			L	T	P		Internal (CIE)	External (SEE)	Total
B45832	Dissertation Phase - II	PWC	-	-	32	16	50	150	200
TOTAL			-	-	32	16	50	150	200

PROFESSIONAL ELECTIVES									
PE- I					PE – II				
B45804	Web Services and Service Oriented Architecture				B45807	Ethical Hacking			
B45805	Data Mining Algorithms				B45808	Mobile Computing			
B45806	Mathematical Foundations of Computer Science				B45809	Advanced Computer Architecture			
PE - III					PE – IV				
B45815	Software Testing Methodologies				B45818	Human and Computer Interaction			
B45816	Soft Computing				B45819	Parallel Computing			
B45817	Information Security				B45820	Digital Forensics			
PE – V									
B45823	Social Media Mining								
B45824	Advanced Operating Systems								
B45825	Deep Learning								

OPEN ELECTIVES									
B45826	Software Project Management								
B45827	Internet of Things								
B45828	Adhoc & Sensor Networks								
B45829	Information Retrieval Systems								

AUDIT COURSE I					AUDIT COURSE II				
B4AC01	English for Research Paper Writing				B4AC03	Disaster Management			
B4AC02	Research Methodology and IPR				B4AC04	Constitution of India			