



Integral University, Lucknow

Department of Computer Science and Engineering

Study and Evaluation Scheme

Program: Master of Technology Computer Science & Engineering-Full Time
Semester I

S. No.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Sub. Total	Credit	Total Credits	Attributes								
				L	T		CT	TA	Total	ESE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics		
THEORIES																						
1	CS518	Soft Computing	DC	3	1	0	40	20	60	40	100	4:0:0	4	√		√						
2	CS516	Advance Data Structures & Algorithm	DC	3	1	0	40	20	60	40	100	4:0:0	4	√		√						
3	CS514	Data Communication & Computer Network	DC	3	1	0	40	20	60	40	100	4:0:0	4	√		√						
4	CS 517	Advance Software Engineering & Project Management	DC	3	1	0	40	20	60	40	100	4:0:0	4	√	√	√						
PRACTICAL																						
5	CS519	Soft Computing Lab	DC	0	0	2	30	30	60	40	100	0:0:2	2	√	√	√						
6	CS515	Data Communication & Computer Network Lab	DC	0	0	2	30	30	60	40	100	0:0:2	2	√	√	√						
Total				12	4	4	220	140	360	240	600		20									

DC- Departmental Core

DE- Departmental Elective



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Semester II

S. No.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Sub. Total	Credit	Total Credits	Attributes						
				L	T	P	CT	TA	Total	ESE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics
THEORIES																				
1	CS 520	Advance Distributed Operating Systems	DC	3	1	0	40	20	60	40	100	3:1:0	4			√				
2	CS 522	Advance Computer Architecture	DC	3	1	0	40	20	60	40	100	3:1:0	4			√				
3		Elective -1*	DE	3	1	0	40	20	60	40	100	3:1:0	4							
4		Elective -2**	DE	3	1	0	40	20	60	40	100	3:1:0	4							
PRACTICAL																				
5	CS 521	Advance Distributed Operating Systems Lab	DC	0	0	2	30	30	60	40	100	0:0:2	2	√	√	√				
6	CS 531	Seminar	DC	0	0	2	-	-	100	-	100	0:0:2	2			√				
Total				12	4	4	190	110	400	200	600			20						

DC- Departmental Core DE- Departmental Elective

Electives									
S.No.	Electives	Course code	Course Title Type of Paper	Attributes					
				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value
1	Elective-1*	CS-523	Pattern Recognition & its Applications			√			
		CS-524	Software Testing & Quality Management	√		√			
		CS-525	Advance Concepts of Database Design			√			
		CS-526	Advance Cryptography & Network security	√	√	√			
2	Elective-2**	CS-527	Advance Real Time Systems			√			
		CS-528	Forensic & Cyber Crime	√	√				
		CS-529	Digital Image Processing & its Applications	√		√			
		CS-530	Applied Data mining and Warehousing			√			



Integral University, Lucknow
 Department of Computer Science and Engineering
Study and Evaluation Scheme w.e.f (2021-22)
Semester III

Program: Master of Technology Computer Science & Engineering-Full Time

S. No.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Sub-Total	Credit	Total Credits	Attributes					
				L	T	P	CT	TA	Total	ESE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value
THEORIES																			
1		Elective – 3*	DE	3	1	0	40	20	60	40	100	4:0:0	4						
2		Elective – 4**	DE	3	1	0	40	20	60	40	100	4:0:0	4						
3	CS-699	M.Tech. Dissertation	DC	-	-	4	-	-	60	40	100	0:0:4	4	√	√	√			
PRACTICAL																			
4	CS 611	Programming Lab	DC	0	0	2	30	30	60	40	100	0:0:2	2	√	√	√			
5	CS-612	Simulation Tools Lab	DC	0	0	2	30	30	60	40	100	0:0:2	2	√	√	√			
Total				6	2	4	140	100	300	200	500		16						

DC- Departmental Core DE- Departmental Elective

Electives									
S. No.	Electives	Course code	Course Title Type of Paper	Attributes					
				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value
1	Elective-1*	CS-602	Parallel Algorithm			√			
		CS-603	Ad-hoc Sensor Network	√		√			
		CS-604	Advanced Embedded Systems	√		√			
		CS-605	Agile Software Engineering	√		√			
		CS-606	Advanced Cloud Computing	√	√	√			
2	Elective-2**	CS-607	System Simulation and Modelling			√			
		CS-608	Advanced Mobile Computing			√			
		CS-609	Big Data	√		√			
		CS-610	Advanced Web Technology	√	√				



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Department of Computer Science and Engineering

Study and Evaluation Scheme w.e.f (2021-22)

Program: Master of Technology Computer Science & Engineering-Full Time
Semester IV

S. No.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Sub-Total	Credit	Total Credits	Attributes					
				L	T	P	CT	TA	Total	ESE				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value
THEORIES																			
1	CS-699	M.Tech.Dissertation	DC	-	-	4	-	-	60	40	100	0:0:4	4	√	√	√			
2	CS-699	M.Tech.Dissertation	DC	-	-	4	-	-	60	40	100	0:0:4	4	√	√	√			
3	CS-699	M.Tech. Dissertation	DC	-	-	4	-	-	60	40	100	0:0:4	4	√	√	√			
4	CS-699	M.Tech.Dissertation	DC	-	-	4	-	-	60	40	100	0:0:4	4	√	√	√			
Total				0	0	16	-	-	240	160	400		16						

DC-Departmental Core

Total Credit of the Course: 20+20+16+16 = 72