

UNIVERSITY SCHOOL
OF

INFORMATION AND COMMUNICATION TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

COURSE STRUCTURE

Master of Technology (Computer Science and Engineering)

Batch: 2024-26



GAUTAM BUDDHA UNIVERSITY
GAUTAM BUDH NAGAR, GREATER NOIDA

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Program: M.Tech (Computer Science and Engineering)

SEMESTER I

S.No.	Course Code	Course Name	L	T	P	Credits	Types
1	WCS521	Advanced Data Base Management System	3	1	0	4	CC1/SEC
2	WCS523	Java Programming	3	1	0	4	CC2/SEC
3	WCS525	Advanced Data Structure and Algorithm	3	1	0	4	CC3
4	WCS527	Research Techniques in ICT	3	1	0	4	CC4
5	WCS581	Advanced Data Base Management System Lab	0	0	3	2	CC-L1 / SEC
6	WCS583	Java Programming Lab	0	0	3	2	CC-L2 / SEC
7	GP	General Proficiency	Non Credit				GP
Total Hours and Credits			12	4	6	20	

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SEMESTER II

S.No.	Course Code	Course Name	L	T	P	Credits	Types
1	WCS522	Python Programming	3	1	0	4	CC5
2	WCS524	Problem Solving Using Artificial Intelligence	3	1	0	4	CC6
3		Elective-1: (E1)	3	0	0	3	E1 / DSE
4		Elective-2: (E2)	3	0	0	3	E2 / DSE
5	WCS582	Python Programming Lab	0	0	3	2	CC-L3 / SEC
6	WCS592	Research Seminar	0	0	6	4	S/E
7	GP	General Proficiency	Non Credit				GP
Total Hours and Credits			12	2	9	20	

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SEMESTER III

S.No.	Course Code	Course Name	L	T	P	Credits	Types
1	WCS621	Machine Learning	3	0	0	3	CC7
2	WCS623	Data Analytics	3	0	0	3	CC8
3		Elective-3	3	0	0	3	E3 / DSE
4		Elective-4	3	0	0	3	E4 / DSE
5	WCS691	Dissertation Part - I	0	0	16	8	DP1 / E
10	GP	General Proficiency	Non Credit				GP
Total Hours and Credits			12	0	16	20	

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SEMESTER IV

S.No.	Course Code	Course Name	L	T	P	Credits	Types
1	WCS692	Dissertation Part - II	0	0	40	20	DP2 / E
2	GP	General Proficiency	Non Credit				GP
Total Hours and Credits			0	0	40	20	

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ELECTIVES

S.No.	Course Code	Course Name	L	T	P	Credits	Types
1	WCS530	Natural Language Processing	3	0	0	3	E1
2	WCS532	Parallel Computation and Applications	3	0	0	3	E1
3	WCS534	Nature Inspired Meta- Heuristics	3	0	0	3	E1
4	WCS536	Expert Systems	3	0	0	3	E1
5	WCS538	Digital Humanities	3	0	0	3	E1
6	WCS540	Approximation Techniques	3	0	0	3	E2
7	WCS542	High Performance Computing	3	0	0	3	E2
8	WCS544	Blockchain Technology	3	0	0	3	E2
9	WCS546	Software Quality Assurance	3	0	0	3	E2
10	WCS548	Embedded System Design	3	0	0	3	E2
11	WCS531	Digital Forensic	3	0	0	3	E3
12	WCS533	Human Computer Interaction	3	0	0	3	E3
13	WCS535	DevOps	3	0	0	3	E3
14	WCS537	Extended Reality	3	0	0	3	E3
15	WCS539	AI Enabled Cyber Security	3	0	0	3	E3
16	WCS541	Big Data Platforms and Analytics	3	0	0	3	E4
17	WCS543	Internet of Things	3	0	0	3	E4
18	WCS545	Edge Computing	3	0	0	3	E4
19	WCS547	Computational Finance	3	0	0	3	E4
20	WCS549	Computational Biology	3	0	0	3	E4

WCS	Weekend Computer Science for Course Code	SEC	Skill Enhancement
CC	Core Course from USICT for Type of Course	E	Elective
CC-L	Core Course Lab from USICT for Type of Course	DP1	Dissertation Part 1
DSE	Discipline Specific Course	DP2	Dissertation Part 2
S/E	Seminar		

