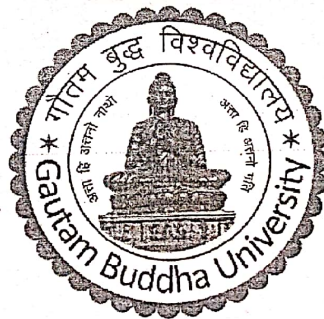


**UNIVERSITY SCHOOL
OF
FORMATION AND COMMUNICATION TECHNOLOGICAL
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

PROGRAMME STRUCTURE

**M.TECH. COMPUTER SCIENCE AND ENGINEERING
(WP)**

2026-28



**GAUTAM BUDDHA UNIVERSITY
GAUTAM BUDH NAGAR, GREATER NOIDA, UP,**

SEMESTER I

	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	

Program: M.Tech CSE SEMESTER II

	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	

Program: M.Tech CSE SEMESTER III

	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	

Program: M.Tech CSE SEMESTER IV

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			

Program: M.Tech CSE ELECTIVES

Course Code	Course Name	L	T	P	Credits	Types		
1	WCS530	Cloud Computing		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	Deep Learning		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	WCS631	Digital Forensic		3	0	0	3	E3
12	WCS633	Human Computer Interaction		3	0	0	3	E3
13	WCS635	Natural Language Processing		3	0	0	3	E3
14	WCS637	Extended Reality		3	0	0	3	E3
15	WCS639	AI Enabled Cyber Security		3	0	0	3	E3
16	WCS641	Computer Vision		3	0	0	3	E4
17	WCS643	Internet of Things		3	0	0	3	E4
18	WCS645	Edge Computing		3	0	0	3	E4
19	WCS647	Computational Finance		3	0	0	3	E4
20	WCS649	Computational Biology		3	0	0	3	E4

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