UNIVERSITY SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROGRAMME STRUCTURE

B.TECH. COMPUTER SCIENCE AND ENGINEERING 2020-2024

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

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S.No.	Course Code	Course Name	經經過的經	L		P	Credits	Types
1	MA101	Engineering Mathematics-I		3	1	0	4	GE1
2	PH102	Engineering Physics		3	1	0	4	GE2
3	EE102	Basic Electrical Engineering		3	1	0	4	GE3
4	ME101	Engineering Mechanics		3	1	0	4	GE4
5	ES101	Environmental Studies		3	1	0	4	OE1 / AECC
6	PH104	Engineering Physics Lab		0	0	2	1	GE-L1
7	EE104	Basic Electrical Engineering Lab		0	0	2	1	GE-L2
8	EN151	Language Lab		0	0	2	1	OE-L1 / SEC
9	ME102	Workshop Practice		1	0	2	2	GE-L3 / SEŒ
10	GP	General Proficiency			Non (
		Total H	ours and Credits	16	5	8	25	

SEMESTER II

S.No	. Course Code	Course Name		T	F P	Credits	Types
1	MA102	Engineering Mathematics-II	3	1	0	4	GE5
2	CS101	Fundamentals of Computer Programming	3	1	0	4	CC1 /FC
3	CS102	Computer Organisation and Architecture	3	1	0	4	CC2
4	EC101	Basic Electronics Engineering	3	1	0	4	GE6
5	CS105	Introduction of Artificial Intelligence	2	0	0	2	CC3 / FC
6	EN101	English Proficiency	2	0	0	2	OE2 / AECC
7	CE103	Engineering Graphics Lab	1	0	2	2	GE-L4
8	CS181	Computer Programming Lab	0	0	2	1	CC-L1 /SEC
9	CS183	Computer Organisation and Architecture Lab	.0/	0	2	1	CC-L2 /SEC
10	EC181	Basic Electronics Engineering Lab	0	0	2	ĺ	GE-L6
11	GP	General Proficiency		Non			
	•	Total Hours and Credits	17	4	8	25	



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SEMESTER III

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S.No.	Course Code	Course Name			Ρ	Credits	Types
1	CS201	Internet Technology	3	0	0	3	CC4
2	CS203	Concepts of Operating Systems	3	0	0	3	CC5
3	CS205	Data Structure & Algorithms	3	0	0	3	CC6
4	CS207	Problem Solving using C++	3	0	0	3	CC7 / SEC
5	CS209	Logic Design	3	0	0	3	GE7
6	MA201	Engineering Mathematics-III	3	1	0	4	GE8
7	CS281	Data Structure & Algorithms Lab	0	0	3	2	CC-L3 / SEC
8	CS283	Object-Oriented Programming Lab	0	0	3	2	CC-L4 / SEC
9	CS285	Logic Design Lab	0	0	3	2	CC-L5 / SEC
10	GP	General Proficiency	Non Credit				
		Total Hours and Credits	18	1	9	25	

SEMESTER IV

S.No.	Course Code	Course Name		T	P	Credits	Types
1	CS202	Software Engineering	3	0	0	3	CC8
2	CS204	Database Management Systems	3	0	0	3	CC9
3	CS206	Java Programming	3	0	0	3	CC10 / SEC
4	CS208	Artificial Intelligence	3	0	0	3	CC11
5	CS210	Theory of Automata	3	0	0	3	CC12
6	CS212	Discrete Structures	3	1	0	4	CC13
7	CS282	Database Management Systems Lab	0	0	3	2	CC-L6 / SEC
8	CS284	Java Programming Lab	0	0	3	2	CC-L7 / SEC
9 -	CS286	Artificial Intelligence Lab	. 0	0	3	2	CC-L8 / SEC
10	GP	General Proficiency	Non Credit			À.	
-p =1		Total Hours and Credits	18	1	9	25	ď j

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		SEMESTER V					and the same and t
S.No	. Course Code	Course Name		T,	A PA	Credits	Types
1	CS301	Computer Networks	3	0	0	3	CC14
2	CS303	Compiler Design	3	0	0	3	CC15
3	CS305	Wireless Communication	3	0	0	3	CC16
4	CS307	Python	3	1	0	4	CC17
5		Elective 1	3	0	0	3	E1 / DSE
6		Elective 2	3	0	0	3	E2 / DSE
7	CS381	Computer Networks Lab	0	0	3	2	CC-L9
8	CS383	Compiler Design Lab	0	0	3	2	CC-L10
9	CS385	Python Programming Lab	0	0	3	2	CC-L11 / SEC
10	GP	General Proficiency	Non Credit				
		Total Hours and Credits	18	1	9	25	

SEMESTER VI

S.No	. Course Code	Course Name	W.L.	T.	P	Credits	Types
1	CS302	Web Development using PHP	3	0	0	3	CC18 / SEC
2	CS304	Software Testing	3	0	0	3	CC19
3	CS306	Analysis & Design of Algorithms	3	1	0	4	CC20
4	CS308	Cyber Security	3	0	0	3	CC21
5		Elective 3	3	0	0	3	E3 / DSE
6		Elective 4	3	0	0	3	E4 / DSE
7	CS382	Web Development using PHP Lab	0	0	3	2	CC-L12 / SEC
8	CS384	Analysis & Design of Algorithms Lab	0	0	3	2	CC-L13 / SEC
9	CS386	Cyber Security Lab	0	0	3	2	CC-L14 / SEC
10	GP	General Proficiency	Non Credit				
		Total Hours and Credits	18	1	9	25	

Industrial Training will be done by candidate individually after third year during the summer break and it will be of minimum 4 weeks. It will be evaluated as per University Examination in VII semester.

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SEMESTER VIII

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S.No.	Course Code	Course Name	L		QP4	Credits	Types
1	MA402	Modeling and Simulation	3	1	0	4	GE9
2	CS401	Internet of Things	3	0	0	3	CC22
3	CS403	Soft Computing Techniques	3	0	0	3	CC23
4	CS405	Machine Learning	2	0	0	2	CC24 / SEC
5		Elective 5	3	0	0	3	E5 / DSE
6	CS481	Internet of Things Lab	0	0	3	2	CC-L15 / DSE
7	CS491	Minor Project	0	0	6	3	MP1/E
8	CS493	Industrial Traning	0	0	10	5	IT1 / E
9	GP	General Proficiency		Nor			
		Total Hours and Credits	14	1	19	25	

SEMESTER VIII

S.No.	Course Code	Course Name			P	Credits	Types
1	CS490	Seminar	0	0	3	2	S/E
2	CS492	Major Project	0	0	16	8	MP2 / E
3	CS494	Intenship	0	0	30	15	I/E
4	GP	General Proficiency		Nor			
		Total Hours and Credits	0	0	49	25	

GRAND TOTAL OF CREDITS = 200

In the Seminar, student need to study and present individually, on latest research paper of their specialized area and It will be evaluated as per University Examination Rules.

The Internship in Industry will be done by candidate individually during the 8th semester and it will be for a minimum of 4 (-6) months. It will be evaluated as per University Examination Rules.

Minor and Major Project will be in a group and It will be evaluated as per University Examination Rules.

USICT will provide a mentor/supervisor for industrial training, seminar, internship, minor and major projects.

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