GALGOTIAS UNIVERSITY

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NAAC GRADE A+
Accredited University

School of Computer Science and Engineering

Program

Bachelor of Technology in Computer Science and Engineering (Internet of Things and Cyber Security Including Block Chain Technology)

Curriculum

S. No.	Course Code	Course Title	L	T	P	S	C
		First Semester B. Tech CSE (IoT and Cyber Security- Block Chain Technology)					
			Credit Structure				**Total Credits**
			L	**T**	**P**	**S**	**C**
1	101	Engineering Mathematics-I	3	0	1	0	4
2	102	Basic Electrical & Electronics Engg.	3	0	1	0	4
3	103	Environmental Impact Analysis	0	0	1	0	1
4	104	Biology for Engineers / Nano Technology / Alternate Energy / Synthetic Chemistry / Bio-Materials and Implants/Chemical and Biological Materials	3	0	0	0	3
5	105	Programming for Problem Solving using C	3	0	1	0	4
6	106	Aptitude Skills	0	0	2	0	2
		Second Semester B. Tech CSE (IoT and Cyber Security- Block Chain Technology)					
1	201	Engineering Design and Prototyping	3	0	1	0	4
2	202	Introduction of Digital System	3	0	0	0	3
3	203	Modern Physics / Semiconductor Physics / Condensed matter Physics/Semiconductor and Opto Electro Devices	3	0	1	0	4
4	204	YOGA	0	0	0	0	0
5	205	Engineering Mathematics-II	3	0	1	0	4
6	206	Discrete Mathematics	3	0	0	0	3
7	207	OOPS Using C++	3	0	1	0	4
8	208	Applied Aptitude Skills	0	0	2	0	2
		Third Semester B. Tech CSE (IoT and Cyber Security- Block Chain Technology)					
1	301	Database Management System	3	0	1	0	4
2	302	Data Structures	3	0	1	0	4
3	303	Java Programming	3	0	1	0	4
4	304	Probability and Statistics	3	0	0	0	3
5	305	Computer Organization and Architecture	3	0	0	0	3
6	306	Advanced Aptitude Skills	0	0	2	0	2
7	307	Programming Skills with Computational Maths	0	0	2	0	2
8	308	Design Thinking	1	0	0	0	1
		Fourth Semester B. Tech CSE (IoT and Cyber Security- Block Chain Technology)					
1	401	Data Communication and Networking	3	0	1	0	4
2	402	Design and Analysis of Algorithm	3	0	1	0	4
3	403	Operating System	3	0	1	0	4
4	404	Theory of Computation	3	0	0	0	3
5	405	Aptitude Proficiency	0	0	2	0	2
6	406	Fundamentals of Cyber Security	3	0	0	0	3
7	407	Python Programming	0	0	2	0	2
8	408	Understanding Harmony and Ethical Human Conduct	1	0	0	0	1
9	409	Programming Skills with Data Structures	0	0	2	0	2
		Fifth Semester B. Tech CSE (IoT and Cyber Security- Block Chain Technology)					
1	501	Machine Learning	3	0	1	0	4
2	502	Software Engineering & Testing	3	0	1	0	4
3	503	Soft Skills & Aptitude Readiness	0	0	2	0	2
4	504	Programming Skills with Algorithmic Design	0	0	2	0	2
5	505	Introduction to Cryptography	3	0	1	0	4
6	506	Summer Internship-I	0	0	0	1	1
7	507	IoT Security	3	0	1	0	4
8	508	Open Elective-1	3	0	0	0	3

		Sixth Semester B. Tech B. Tech CSE (IoT and Cyber Security- Block Chain Technology)					
1	601	Professional Readiness	**0**	**0**	**2**	**0**	**2**
2	602	Programming Skills with Advanced Data Structures	**0**	**0**	**2**	**0**	**2**
3	603	Ethical Hacking	**3**	**0**	**1**	**0**	**4**
4	604	Generative AI for Cyber Security	**3**	**0**	**1**	**0**	**4**
5	605	Blockchain Technology and Applications	**3**	**0**	**1**	**0**	**4**
6	606	Block Chains and Cryptocurrency	**3**	**0**	**1**	**0**	**4**
7	607	Open Elective-2	**3**	**0**	**0**	**0**	**3**
		Seventh Semester B. Tech CSE (IoT and Cyber Security- Block Chain Technology)					
1	701	Research Methodology & IPR	**3**	**0**	**1**	**0**	**4**
2	702	Summer Internship II	**0**	**0**	**0**	**1**	**1**
3	703	Capstone Project Phase I	**0**	**0**	**0**	**4**	**4**
4	704	Program Specific Elective-Track Elective	**3**	**0**	**1**	**0**	**4**
		Eighth Semester B. Tech CSE (IoT and Cyber Security- Block Chain Technology)					
1	801	Capstone Project Phase II	**0**	**0**	**0**	**8**	**8**
2	802	Industrial Internship	**0**	**0**	**0**	**2**	**2**

List of Electives

S.N.	Course Code	Open Elective-I (Sem V)	L	T	P	S	Credits
1	**508**	Understanding India	3	0	0	0	3
2	**508**	Bio-Safety and Bio-Hazards	3	0	0	0	3
3	**508**	Introduction to Construction Technology	3	0	0	0	3
4	**508**	Photography	3	0	0	0	3
5	**508**	Health and Lifestyle Disorders	3	0	0	0	3
6	**508**	Space Science	3	0	0	0	3
7	**508**	Food, Nutrition and Health	3	0	0	0	3
8	**508**	NGOs and Sustainable Development	3	0	0	0	3

S.N.	Course Code	Open Elective-I (Sem VI)	L	T	P	S	Credits
1	**607**	Entrepreneurship	3	0	0	0	3
2	**607**	Introductory Agriculture	3	0	0	0	3
3	**607**	Introduction to Business Economics	3	0	0	0	3
4	**607**	Mathematical Puzzles and Games	3	0	0	0	3
5	**607**	Microprocessor & Microcontroller	3	0	0	0	3
6	**607**	Digital marketing	3	0	0	0	3
7	**607**	Human Resource Management	3	0	0	0	3
8	**607**	Electric Vehicle Technology	3	0	0	0	3

S.N.	Course Code	Program Specific Elective-Track Elective	L	T	P	S	Credits
1	**704**	Blockchain Architecture and Design	3	0	1	0	4
2	**704**	Tokenization and Cryptocurrency	3	0	1	0	4
3	**704**	Introduction to Bitcoin	3	0	1	0	4
4	**704**	IoT Architectures and Protocols	3	0	1	0	4