



**GALGOTIAS UNIVERSITY  
UTTAR PRADESH**

**B.Tech in Computer Science & Engineering  
with specialization in Graphics and Gaming**

**2018-19**

**B.Tech. (CSE) 2018-19  
Semester Wise Breakup of Courses**

Semester 1						
Course	Revised Course Code	Course Title	L	T	P	C
1		Introduction to Computer Science & Engineering	0	0	2	1
2		Computer Programming and Problem Solving using C	0	0	4	2
3		Calculus for Engineers	3	0	0	3
4		Exploration with CAS-I	0	0	2	1
5		Engineering Physics	3	0	0	3
6		Engineering Physics lab	0	0	2	1
7		Engineering Chemistry	3	0	0	3
8		Engineering Chemistry lab	0	0	2	1
9		Product Design using Graphics	0	0	4	2
10		Universal Human Values and Ethics	0	0	4	2
11		Basic English	0	0	4	2
12		Foreign Language 1 (from Basket)	0	0	2	1
		<b>TOTAL</b>				<b>22</b>

Semester 2						
Course Code	Revised Course Code	Course Title	L	T	P	C
1		Application Oriented Programming using Python	0	0	6	3
2		Psychology and Sociology	2	0	0	2
3		Environmental Science	3	0	0	3
4		Matrices and Differential Equations.	3	0	0	3
5		Exploration with CAS-II	0	0	2	1
6		Physics of Semiconductor Devices for CSE, ECE, EEE	3	0	0	3
7		Advance Physics Lab	0	0	2	1
8		Basic Electrical and Electronics Engineering	3	0	0	3
9		Basic Electrical and Electronics Engineering Lab	0	0	2	1
10		English Proficiency and Aptitude Building - 1	0	0	4	2
11		Foreign Language 2 (from Basket)	0	0	2	1
12						
		<b>TOTAL</b>				<b>23</b>

Semester 3						
Course	Course Title	L	T	P	C	
1	English Proficiency and Aptitude Building - 2	0	0	4	2	
2	Digital Design and Computer Architecture	3	0	0	3	
3	Maths III (From Basket)/ Discrete Structure	3	0	0	3	
4	Engineering Thermodynamics	3	0	0	3	
5	Data Structures using C++	3	0	0	3	
6	Introduction to Cryptographic Fundamentals	3	0	0	3	
7	Theory of Automata & Formal Languages	3	0	0	3	
8	Digital Design and Computer Architecture Lab	0	0	2	1	
9	Data Structures using C++ Lab	0	0	2	1	
10	Introduction to Cryptographic Fundamentals Lab	0	0	2	1	
	<b>TOTAL</b>				<b>23</b>	

Semester 4						
Course Code	Course Title	L	T	P	C	
1	English Proficiency and Aptitude Building - 3	0	0	4	2	
2	Maths IV (From Basket) / Specialization Specific	2	0	2	3	
3	Operating Systems	3	0	0	3	
4	Data Base Management System	3	0	0	3	
5	Microprocessor & Interfacing	3	0	0	3	
6	Program Elective-1	3	0	0	3	
7	Data Communication and Networking	3	0	0	3	
8	Operating Systems Lab	0	0	2	1	
9	Data Base Management System Lab	0	0	2	1	
10	Microprocessor & Interfacing Lab	0	0	2	1	
	Introduction to graphics and animation	3	0	0	3	
	<b>TOTAL</b>				<b>26</b>	

Semester 5						
Course	Course Title	L	T	P	C	
1	English Proficiency and Aptitude Building - 4	0	0	4	2	
2	Design & Analysis of Algorithms	3	0	0	3	
3	Compiler Design	3	0	0	3	
4	Software Engineering	3	0	0	3	
5	Introduction to Cyber Security	3	0	0	3	
6	Advanced Java Programming	1	0	6	4	
7	ITS-1	0	0	2	1	
8	Swayam / MOOC	0	0	4	2	

Semester 6						
Course Code	Course Title	L	T	P	C	
1	Campus to Corporate	0	0	4	2	
2	Computer Graphics	3	0	0	3	
3	Web Technologies	3	0	0	3	
4	ITS-2	0	0	2	1	
5	Program Elective-3	3	0	0	3	
6	University Elective-1	3	0	0	3	
7	Program Elective-2	0	0	6	3	
8	Management Course (From Basket)	3	0	0	3	

9		Compiler Design Lab	0	0	2	1
10		Software Engineering Lab	0	0	2	1
		<b>Programming for Graphics &amp; Gaming &amp; lab</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>3</b>
		<b>TOTAL</b>				<b>26</b>

9		Computer Graphics Lab	0	0	2	1
10		Web Technologies Lab	0	0	2	1
		<b>Introduction to Game design &amp; lab</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>3</b>
		<b>Total</b>				<b>26</b>

Semester 7						
Course	Course Title	L	T	P	C	
1 PE-4	Program Elective-4	0	0	6	3	
2 PC22	Swayam / MOOC	0	0	4	2	
3 UC26	Capstone Design- 1	0	0	6	3	
4 UE6	Program Elective - 5	0	0	6	3	
5 UE12	University Elective - 12	3	0	0	3	
	<b>Mobile Game Programming &amp; lab</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>3</b>	
	<b>Animation Algorithm and Techniques</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>3</b>	
	<b>TOTAL</b>					<b>20</b>

Semester 8						
Course Code	Course Title	L	T	P	C	
1 UC27	Capstone Design - 2	0	0	18	9	
	<b>TOTAL</b>					<b>9</b>

<b>TOTAL</b>	<b>175</b>
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Program Elective				
	L	T	P	C
1	3	0	0	3
2	3	0	0	3
3	0	0	6	3
4	3	0	0	3
5	0	0	6	3
6	0	0	6	3
7	0	0	6	3
8	0	0	6	3
9	3	0	0	3
10	3	0	0	3
11	3	0	0	3
12	3	0	0	3
13	3	0	0	3
14	3	0	0	3
15	0	0	6	3
16	0	0	6	3
17	0	0	6	3
18	0	0	6	3

Basket-I (III Sem)	
	1. Functions of complex variables and Transforms: MATH-2001
	2. Numerical Methods: MATH-2002
	3. Discrete Mathematical structures: MATH-2005
Basket-II (IV Sem)	
	1. Probability and Statistics: MATH 2003
	2. Probability and Stochastic processes: MATH 2004
	4. Advance Statistical Analysis: MATH 2007



