



Department of Information Technology

B.Sc. in Information Technology (Cryptography and Network Security)

Semester I						
Sl. No.	Course Code	Course Name	L	T	P	Credits
Theory						
1		Mathematics for Computer Science	3	1	0	4
2		Programming for Problem Solving	3	0	4	5
3		Introduction to Financial Technology	3	1	0	4
4		e-Commerce security	3	0	4	5
5		English Communication	3	0	4	5
Total Credit						23

Semester II						
Sl. No.	Course Code	Course Name	L	T	P	Credits
Theory						
1		Discrete Mathematics	3	1	0	4
2		Computation Number Theory	3	0	4	5
3		Mathematics (Operation Research and Game theory)	3	1	0	4
4		Data Structure with Python	3	1	4	5
5		Environmental Science	1	0	0	1
Sessional						
1		Project 1	0	0	4	2
Total Credit						21

Semester III						
Sl. No.	Course Code	Course Name	L	T	P	Credits
Theory						
1		Computer Networking	3	0	4	5
2		Operating Systems	3	0	4	5
3		Numerical Analysis and Statistic	3	0	4	5
4		Web security	3	1	0	4
5		Cryptography	3	1	0	4
Total Credit						23

Semester IV						
Sl. No.	Course Code	Course Name	L	T	P	Credits
Theory						
1		Information Security	3	0	4	5
2		Object-Oriented Programming with JAVA	3	1	0	4
3		Software Project Management ,Quality Assurance & Security	3	1	0	4
4		DBMS and SQL Injection	3	0	4	5



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5		E-Governance	3	1	0	4
Sessional						
1		Project II	0	0	4	2
Total Credit						24

Semester V						
Sl. No.	Course Code	Course Name	L	T	P	Credits
Theory						
1		Introduction to Theory of Computer (Automata)	3	1	0	4
2		Block Chain Technology	3	1	0	4
3		Network Security	3	0	4	5
4		Elective 1	3	0	0	3
		Information and coding Theory				
		Advanced Unix and Shell Programming				
		Human Computer Interaction				
		Multimedia & Graphics				
5		Industrial Training and Internship	0	0	2	1
Sessional						
1		Major Project I	0	0	4	2
Total Credit						19

Semester VI						
Sl. No.	Course Code	Course Name	L	T	P	Credits
Theory						
1		Elliptic Curve Cryptography	3	1	0	4
2		Cloud Security	3	1	0	4
3		Elective 2	3	0	0	3
		Steganography				
		Image Processing and Security				
		Operating System Security				
		Image Processing and Security				
Sessional						
1		Grad Viva	0	0	2	1
2		Major Project II	0	0	8	4
Total Credit						16



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Semester	Credit
I	23
II	21
III	23
IV	24
V	19
VI	16
TOTAL	126