



Dr.M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
UNIVERSITY
(Decl. U/S 3 of the UGC Act 1956)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
B.Tech - Information Security and Digital Forensics (Full Time)
2015 Regulation Curriculum

III SEMESTER						
S.No	Sub.Code	Title of Subject	L	T	P	C
1	BIS15001	Fundamentals of Networking	3	0	0	3
2	BIS15002	Fundamentals of Information Security	3	1	0	4
3	BEC13007	Digital Electronics	3	0	0	3
4	BCS13009	Computer Architecture	3	0	0	3
5	BCS13002	Introduction to OOPs With C++ And Java	3	0	0	3
6	BMA13007	Discrete Mathematics	3	1	0	4
7	BIS15L01	C++ and Java Lab	0	0	6	2
8	BIS15L02	Fundamentals of Networking Lab	0	0	6	2
Total						24

IV SEMESTER						
S.No	Sub.Code	Title of Subject	L	T	P	C
1	BIS15003	Cryptology	3	1	0	4
2	BMA13012	Probability and Linear Programming	3	1	0	4
3	BIS15004	TCP / IP	3	1	0	4
4	BIS15005	Wireless and Mobile Networking	3	0	0	3
5	BIS15006	Digital Forensics (Fundamentals)	3	1	0	4
6	BCS13005	Database Management System	3	0	0	3
7	BIS15L03	Wireless & Mobile Networking Lab	0	0	6	2
8	BCS13L03	DBMS Lab	0	0	3	1
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V SEMESTER						
S.No	Sub.Code	Title of Subject	L	T	P	C
1	BIS15007	Advanced Networking	3	0	0	3
2	BIS15008	Advanced Digital Forensics	3	0	0	3
3	BIS15009	Live Forensics	3	0	0	3
4	BIS15010	OS Security	3	0	0	3
5	BIS15011	PERL / Python	3	1	0	4
6	BIS15L04	Live Forensics Lab	0	0	6	2
7	BIS15L05	Advanced Networking Lab	0	0	6	2
8	BIS15L06	Advanced Digital Forensics Lab	0	0	6	2
9	BIS15L07	OS Security – Lab	0	0	3	1
						23

VI SEMESTER						
S.No	Sub.Code	Title of Subject	L	T	P	C
1	BIS15012	Vulnerability Analysis / Penetration Testing	3	0	0	3
2	BIS15013	Advanced Information Security	3	0	0	3
3	BIS15014	End Point Security	3	1	0	4
4	BIS15015	Resilience Management	3	1	0	4
5	BIS15EXX	Elective – 1	3	0	0	3
6	BIS15EXX	Elective – 2	3	0	0	3
7	BIS15L08	Vulnerability Analysis / Penetration Testing Lab	0	0	6	2
8	BIS15L09	Advanced Information Security Lab	0	0	6	2
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VII SEMESTER						
S.No	Sub.Code	Title of Subject	L	T	P	C
1	BIS15016	Web Security	3	1	0	4
2	BIS15017	Forensic Analysis Tools	3	0	0	3
3	BIS15018	Application Security	3	0	0	3
4	BIS15EXX	Elective – 3	3	0	0	3
5	BIS15EXX	Elective – 4	3	0	0	3
6	BIS15L10	Forensic Analysis Tools Lab	0	0	6	2
7	BIS15L11	Application Security Lab	0	0	6	2
8	BIS15L12	Project Phase - I	0	1	3	2
						22

VIII SEMESTER						
S.No	Sub.Code	Title of Subject	L	T	P	C
1	BIS15019	Data Base Security	3	0	0	3
2	BIS15EXX	Elective – 5	3	0	0	3
3	BIS15EXX	Elective – 6	3	0	0	3
4	BIS15L13	Data Base Security Lab	0	0	6	2
5	BIS15L14	Project Phase -II	0	0	12	6
						17

Summary of Credits:

Credits (from 2nd to 4th year) : 135
 Transfer from 1st year : 45
 Soft skills : 4
Total credits : 184



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Electives						
S.No	Sub.Code	Title of Subject	L	T	P	C
1	BIS15E01	RDBMS & SQL	3	0	0	3
2	BIS15E02	Incidence Response & Log Management	3	0	0	3
3	BIS15E03	Cyber Laws & IPR	3	0	0	3
4	BIS15E04	Information Security Audits	3	0	0	3
5	BIS15E05	IT Risk Management	3	0	0	3
6	BIS15E06	Data Privacy	3	0	0	3
7	BIS15E07	Frauds in BFSI & Telecom Frauds	3	0	0	3
8	BIS15E08	Identity & Access Management	3	0	0	3
9	BIS15E09	Malware Analysis	3	0	0	3
10	BIS15E10	Critical Infrastructure Protection	3	0	0	3
11	BIS15E11	Professional Ethics	3	0	0	3
12	BIS15E12	Secure Social Networks	3	0	0	3
13	BIS15E13	Mobile Forensics	3	0	0	3
14	BIS15E14	Protocol Filtering and Analysis	3	0	0	3
15	BIS15E15	Data Carving	3	0	0	3
16	BIS15E16	Digital Forensic Life Cycle	3	0	0	3
17	BIS15E17	Data Structures DDL,DML& DCL	3	0	0	3
18	BIS15E18	IOT Security & Smart City Security	3	0	0	3
19	BIS15E19	Criminal Justice Administration	3	0	0	3
20	BIS15E20	Virtualization	3	0	0	3
21	BIS15E21	Cyber Terrorism & Cyber Warfare	3	0	0	3
22	BIS15E22	Forensic Investigation	3	0	0	3
23	BIS15E23	Digital Evidence (CPAR)	3	0	0	3
24	BIS15E24	Cyber Criminology	3	0	0	3
25	BIS15E25	Cloud Computing and Security	3	0	0	3