

B.Sc. Cloud Technology and Information Systems (CT-IS)**FIRST SEMESTER**

A. THEORY/PRACTICAL						
S. No.	SUBJECT NAME	SUBJECT TYPE	HOURS / WEEK			CREDITS
			L	T	P	
1	English Communication	AECC-1	3	0	2	4
2	Database Management System	CC-1	3	0	2	4
3	Data Structures using C	CC-2	3	0	2	4
4	Computer Architecture and Organization	CC-3	3	0	0	3
5	Discrete Mathematics	CC-4	3	1	0	4
6	Any One from the List A	GE-1	4	0	0	4
Total of Theory and Tutorial						20
Total of Practical						3
Total of Semester						23

SECOND SEMESTER

A. THEORY/PRACTICAL						
S.No.	SUBJECT NAME	SUBJECT TYPE	PERIODS/WEEK			CREDITS
			L	T	P	
1	Environmental Science	AECC-2	3	0	0	3
2	Object Oriented Programming Using Java	CC-5	3	0	2	4
3	Computer Networking	CC-6	3	0	2	4
4	Operating Systems	CC-7	3	0	2	4
5	Probability and Statistics	CC-8	3	1	0	4
6	Any One from the List A	GE-2	4	0	0	4
Total of Theory and Tutorial						20
Total of Practical						3
Total of Semester						23

THIRD SEMESTER

A. THEORY/PRACTICAL						
S.No.	SUBJECT NAME	SUBJECT TYPE	PERIODS/WEEK			CREDITS
			L	T	P	
1	Introduction to Cloud Technology	CC-9	4	0	0	4
2	Fundamentals of Storage and Data Centre	CC-10	4	0	4	6
3	Introduction to Information Security	CC-11	4	0	0	4
4	Python Programming	SEC-1	3	0	4	5
5	Database Security/ Server Side Scripting	DSE-1	3	0	2	4
6	Any one from List A	GE-3	4	0	0	4
Total of Theory & Tutorial						22
Total of Practical						5
Total of Semester						27

FOURTH SEMESTER

A. THEORY/PRACTICAL						
S.No.	SUBJECT NAME	SUBJECT TYPE	PERIODS/WEEK			CREDITS
			L	T	P	
1	Principle of Virtualization	CC-12	4	0	2	5
2	Linux Administration	CC-13	4	0	2	5
3	Ethical Hacking-I	CC-14	4	0	4	6
4	Automation and Configuration Management	SEC-2	2	0	4	4
5	Network Security / Windows Administration	DSE-2	3	0	2	4
6	Any one from List A	GE-4	4	0	0	4
Total of Theory & Tutorial						21
Total of Practical						7
Total of Semester						28

FIFTH SEMESTER

A. THEORY/PRACTICAL							
S.No.	CODE	SUBJECT NAME	SUBJECT TYPE	PERIODS/WEEK			CREDITS
				L	T	P	
1		Ethical Hacking –II	CC-15	4	0	4	6
2		Cloud Web Services	CC-16	5	0	2	6
3		Cryptography Fundamentals/ Cloud Security	DSE-3	4	0	2	5
4		Infrastructure Solutions on Cloud/ Server Security	DSE-4	4	0	4	6
Total of Theory & Tutorial							17
Total of Practical							6
Total of Semester							23

SIXTH SEMESTER

A. THEORY/PRACTICAL							
S.No.	CODE	SUBJECT NAME	SUBJECT TYPE	PERIODS/WEEK			CREDITS
				L	T	P	
1		Containerization using Dockers	CC-17	4	0	4	6
2		Digital Forensic Investigation	CC-18	4	0	4	6
3		Defence in Depth/ Cloud Deployment and Management	DSE-5	4	0	4	6
4		Major Project / Internship	DSE-6	0	0	12	6
Total of Theory							12
Total of Practical							12
Total of Semester							24

List A: Generic Electives

1	Data visualization
2	Design thinking
3	Leadership & presentation skills
4.	Project management fundamental
5.	Finance for Non Finance Professionals
6.	Foundation of leadership
7.	Digital marketing for all
8.	Entrepreneurial mindset
9.	Leadership in digital era
10.	Working in a Multi-Culture Environment

