

DAYANANDA SAGAR UNIVERSITY

Shavige Malleshwara Hills, Kumaraswamy Layout,
Bengaluru - 560111, Karnataka.

SCHOOL OF ENGINEERING



SCHEME & SYLLABUS FOR

MASTER OF TECHNOLOGY (M.Tech) COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

(With Effect from 2020-21)

SEMESTER I

SL	PROGRAM CODE	COURSE CODE	COURSE TITLE	$\frac{CR}{AU}$	SCHEME OF TEACHING				
					L	T	P	S/P	C
1		20CSE5101	MATHEMATICAL FOUNDATIONS FOR EMERGING TECHNOLOGIES	CR	03	02	-	-	05
2		20CSE5102	CLEVER ALGORITHMS DESIGN	CR	03	-	04	-	05
3		20CSE5103	BIG DATA ANALYTICS	CR	03	-	04	-	05
4		20CIT5XXX	DEPARTMENT ELECTIVE – I	CR	03	-	02	-	04
5		20CIT5XXX	DEPARTMENT ELECTIVE – II	CR	03	-	02	-	04
6		20CIT5101	SPECIAL TOPICS-I	CR		-	-	02	01
					15	02	12	02	24

SEMESTER II

SL	PROGRAM CODE	COURSE CODE	COURSE TITLE	$\frac{CR}{AU}$	SCHEME OF TEACHING				
					L	T	P	S/P	C
1		20CSE5201	DATA MANAGEMENT	CR	03	-	04	-	05
2		20CSE5202	AGILE PROJECT MANAGEMENT & DEVOPS	CR	03	01	02	-	05
3		20CIT5201	CLOUD NETWORKING & SECURITY	CR	03	-	04	-	05
4		20CIT5XXX	DEPARTMENT ELECTIVE – III	CR	03	-	02	-	04
5		20CIT5XXX	DEPARTMENT ELECTIVE – IV	CR	03	-	02	-	04
6		20CIT5203	SPECIAL TOPICS-II	CR		-	-	02	01
					15	01	14	02	24

CR – CREDIT, AU – AUDIT, L – LECTURE, T – TUTORIAL, P – PRACTICAL, S/P – SEMINAR/PROJECT, C – NO. OF CREDITS,

SEMESTER III

SL	PROGRAM CODE	COURSE CODE	COURSE TITLE	$\frac{CR}{AU}$	SCHEME OF TEACHING				
					L	T	P	S/P	C
1		20CIT5XXX	DEPARTMENT ELECTIVE – V	CR	03	-	02	-	04
2		20CIT5301	DISSERTATION-I	CR	-	-	-	24	12
					03	-	02	24	16

SEMESTER IV

SL	PROGRAM CODE	COURSE CODE	COURSE TITLE	$\frac{CR}{AU}$	SCHEME OF TEACHING				
					L	T	P	S/P	C
1		20CIT5XXX	DEPARTMENT ELECTIVE – VI	CR	03	-	02	-	04
2		20CIT5401	DISSERTATION-II	CR	-	-	-	24	12
					03	-	02	24	16

Note: Dept. elective V and VI will be conducted in flipped learning Mode

CR – CREDIT, AU – AUDIT, L – LECTURE, T – TUTORIAL, P – PRACTICAL, S/P – SEMINAR/PROJECT, C – NO. CREDITS,

DEPARTMENTAL ELECTIVES I / II / III / IV

SL	COURSE CODES	COURSE TITLE
1	20CSE5001	MACHINE LEARNING
2	20CSE5002	CLOUD COMPUTING AND APPLICATIONS
3	20CSE5003	DEEP LEARNING-I
4	20CSE5004	DEEP LEARNING-II
5	20CIT5001	DESIGN & DEVELOPMENT OF CLOUD WITH OPENSTACK
6	20CIT5002	DATA SCIENCE AND BIG DATA ANALYTICS
7	20CIT5003	CLOUD ARCHITECTURE

DEPARTMENTAL ELECTIVES V / VI

SL	COURSE CODES	COURSE TITLE
1	20CIT5004	CLOUD STORAGE INFRASTRUCTURES
2	20CIT5005	CLOUD VIRTUALIZATION
3	20CIT5006	CLOUD APPLICATION DEVELOPMENT
4	20CIT5007	BUSINESS INTELLIGENCE
5	20CIT5008	DATA ANALYTICS & VISUALIZATION