

DAYANANDA SAGAR UNIVERSITY

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

SCHOOL OF ENGINEERING



SCHEME & SYLLABUS FOR MASTER OF TECHNOLOGY (M.Tech) – 2020

COMPUTER SCIENCE & ENGINEERING

(With Effect from 2020-21)

SEMESTER I

SL	PROGRAM CODE	COURSE CODE	COURSE TITLE	<u>CR</u> <u>AU</u>	SCHEME OF TEACHING				
					L	T	P	S/P	C
1	202	20CSE5101	MATHEMATICAL FOUNDATIONS FOR EMERGING TECHNOLOGIES	CR	03	02	-	-	05
2	202	20CSE5102	CLEVER ALGORITHMS DESIGN	CR	03	-	04	-	05
3	202	20CSE5103	BIG DATA ANALYTICS	CR	03	-	04	-	05
4	202	20CSE5XXX	DEPARTMENT ELECTIVE – I	CR	03	-	02	-	04
5	202	20CSE5XXX	DEPARTMENT ELECTIVE – II	CR	03	-	02	-	04
6	202	20CSE5104	SPECIAL TOPICS-I	CR		-	-	02	01
					15	02	12	02	24

SEMESTER II

SL	PROGRAM CODE	COURSE CODE	COURSE TITLE	<u>CR</u> <u>AU</u>	SCHEME OF TEACHING				
					L	T	P	S/P	C
1	202	20CSE5201	DATA MANAGEMENT	CR	03	-	04	-	05
2	202	20CSE5202	AGILE PROJECT MANAGEMENT & DEVOPS	CR	03	01	02	-	05
3	202	20CSE5203	ARTIFICIAL INTELLIGENCE: PRINCIPLES AND TECHNIQUES	CR	03	-	04	-	05
4	202	20CSE5XXX	DEPARTMENT ELECTIVE – III	CR	03	-	02	-	04
5	202	20CSE5XXX	DEPARTMENT ELECTIVE – IV	CR	03	-	02	-	04
6	202	20CSE5204	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	202	20CSE5XXX	DEPARTMENT ELECTIVE – V	CR	03	-	02	-	04
2	202	20CSE5301	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	202	20CSE5XXX	DEPARTMENT ELECTIVE – VI	CR	03	-	02	-	04
2	202	20CSE5401	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. OF

DEPARTMENTAL ELECTIVES I / II / III / IV

SL	COURSE CODES	COURSE TITLE
1	20CSE5001	MACHINE LEARNING
2	20CSE5002	CLOUD COMPUTING & APPLICATIONS
3	20CSE5003	DEEP LEARNING-I
4	20CSE5004	DEEP LEARNING-II
5	20CSE5005	IOT AND NETWORK SECURITY
6	20CSE5006	KNOWLEDGE ENGINEERING AND EXPERT SYSTEMS
7	20CSE5007	PROBLEM SOLVING METHODS AND AUTOMATED REASONING
8	20CSE5008	DATA SCIENCE
9	20CSE5009	PATTERN RECOGNITION

DEPARTMENTAL ELECTIVES V / VI

SL	COURSE CODES	COURSE TITLE
1	20CSE5010	COMPUTER VISION
2	20CSE5011	MEDICAL IMAGE PROCESSING
3	20CSE5012	DIGITAL IMAGE PROCESSING
4	20CSE5013	BUSINESS INTELLIGENCE
5	20CSE5014	DATA ANALYTICS & VISUALIZATION
6	20CSE5015	INFORMATION RETRIEVAL TECHNIQUES
7	20CSE5016	ROBOTICS & AUTOMATION
8	20CSE5017	NATURAL LANGUAGE PROCESSING