M. Sc. in Artificial Intelligence
Total Credits – 80

First Semester			
Course Cod	**Course**	**L-T-P**	**Credits**
CAI81DC00104	Python programming & AI LAB	2-0-4	4
CAI81DC00204	Artificial Intelligence	3-1-0	4
CAI81DC00304	Mathematical Foundation for AI	3-1-0	4
CAI81DC00402	Indian Knowledge System	1-1-0	2
CAI81DC00502	Human Values and Professional Ethics	2-0-0	2
	Elective -I Within Dept.		
Total Credits			**20**
First Semester -Electives			
Course Code	**Courses**	**L-T-P**	**Credits**
CAI82DE00604	Distributed Systems	3-1-0	4
CAI82DE00704	Statistical Methods	3-1-0	4
CAI82DE00804	Theory of Computation	3-1-0	4
CAI82DE00904	Design Analysis & Algorithms	3-1-0	4
Second Semester			
Course Code	**Courses**	**L-T-P**	**Credits**
CAI82DC00104	Machine Learning	3-0-1	4
CAI82DC01104	Research Methodology	3-1-0	4
	Elective -II Within Department		4
	Elective -III Within Department		4
OEIC	Open Elective-I		4
MENC	Mandatory Elective Non-Credit		4
Total Credits			**20**
Second Semester -Electives			
Course Code	**Courses**	**L-T-P**	**Credits**
CAI82DE01204	Computer Graphics	3-0-1	4
CAI82DE01304	Wireless Sensor Networks	3-1-0	4

Course Code	Courses	L-T-P	Credits
CAI82DE0104	Software Engineering	3-0-1	4
CAI82DE01504	Digital Logic and Design	3-1-0	4
CAI82DE0604	Modelling and Simulation	3-1-0	4
CAI82DE1704	Internet Technologies	3-0-1	4
Total Credits			**20**

Third Semester

Course Code	Courses	L-T-P	Credits
CAI91DC01804	Artificial Neural Network and Deep Learning	3-0-1	4
CAI91DC01904	Big Data Analytics	3-0-1	4
	Elective- IV Within Department		4
	Elective- V Within Department		4
OEIC	Open Elective		4
MENC	Mandatory Elective Non-Credit		
Total Credits			**20**

Third Semester -Electives

Course Code	Courses	L-T-P	Credits
CAI91DE02004	Soft Computing	3-0-1	4
CAI91DE02104	Speech Processing and Recognition	3-0-1	4
CAI91DE02204	Social Network and Analysis	3-0-1	4
CAI91DE02304	Natural Language Processing	3-0-1	4
CAI91DE02504	Quantum Computing	3-0-1	4
CAI91DE02604	Intelligent Systems and Robotics	3-1-0	4
CAI91DE02704	Cloud Computing	3-1-0	4
CAI91DE02704	Virtual Reality	3-1-0	4
CAI91DE02904	Internet of Things	3-1-0	4
CAI91DE03004	Edge & Fog Computing	3-1-0	4
CAI91DE03104	Blockchain Technology	3-1-0	4
CAI91DE03204	Computer Vision	3-1-0	4
CAI91DE03304	Data Vizualization	3-1-0	4
CAI91DE03404	Human Computer Interaction	3-1-0	4
CAI91DE03504	Time Series Analysis & Forecating	3-0-1	4
CAI91DE03604	Cyber Security	3-1-0	4
CAI91DE02004	Soft Computing	3-0-1	4
CAI91DE02104	Speech Processing and Recognition	3-0-1	4

CAI91DE02204	Social Network and Analysis	3-0-1	4
CAI91DE02304	Natural Language Processing	3-0-1	4
	Fourth Semester		
CAI92DC03704	Project in Industry/Academia	-	20
Total Credits			**20**

* Open-Elective (interdisciplinary in nature) courses may be opted in second semester.

Mandatory Elective Non-Credit Course (MENC)

Course Type	Course Title	Credits
CAI82ME03800	Innovation & Entrepreneurship	Non-Credit
CAI82ME03900	R Programming	Non-Credit
CAI82ME04000	Intellectual Property Rights	Non-Credit
CAI91ME04100	Soft Skills	Non-Credit
CAI82ME04200	Scientific Writing Tools	Non-Credit

Note: The Department will float elective courses subject to availability of course expert.