

----- Program Structure -----

B.Sc. (AI & ML) SEMESTER I										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/AIML1ST1	Subject- 1	Problem Solving and Programming Using C	03	--	20	30	50	02	--	02
U24/AIML1SP1		Lab course on C Programming	--	04	20	30	50	--	02	02
U24/AIML1ST2	Subject- 2	Discrete Mathematics	03	--	20	30	50	02	--	02
U24/AIML1SP2		Lab Course on Discrete Mathematics	--	04	20	30	50	--	02	02
U24/AIML1ST3	Subject- 3	Fundamentals of Statics	03	--	20	30	50	02	--	02
U24/AIML1SP3		Lab Course on Fundamentals of Statics	--	04	20	30	50	--	02	02
U24/AIML1OET1	GE/OE	From College Basket	03	--	20	30	50	02	--	02
U24/AIML1SECT1	SEC	Computer Organization	03	--	20	30	50	02	--	02
U24/AIML1IKST1	IKS	Indian Science, Engineering & Technology	03	-	20	30	50	2	-	2
U24/AIM-L1AECT1	AEC	Language Communication-I	03	-	20	30	50	2	-	2
U24/AIML1VECT1	VEC	Environmental Awareness-I	03	-	20	30	50	2	-	2
Total			24	12	220	330	550	16	06	22

B.Sc. (AI & ML) SEMESTER II										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/AIML2ST1	Subject- 1	Advanced C Programming	03	--	20	30	50	2	--	02
U24/AIML2SP1		Lab course on Advanced C Programming	--	4	20	30	50	--	2	02
U24/AIML2ST2	Subject- 2	Fundamentals of Calculus	03	--	20	30	50	2	--	2
U24/AIML2SP2		Lab course on Fundamentals of Calculus	--	4	20	30	50	--	2	2
U24/AIML2ST3	Subject- 3	Probability Models	03	--	20	30	50	02	--	02
U24/AIML2SP3		Lab Course based on Probability Models	--	4	20	30	50	--	2	2
U24/AIML2OEP1	GE/OE	From College Basket	03	--	20	30	50	2	--	02
U24/AIML2SECP1	SEC	Lab Course on Computer Organization	--	4	20	30	50	--	2	02
U24/AIML2AECT1	AEC	Language Communication-II	03	--	20	30	50	2	--	02
U24/AIML2VECT1	VEC	EVS-II	03	--	20	30	50	2	--	02
U24/AIML2CCT1	CC	From College Basket	03	--	20	30	50	2	--	02
Total			21	16	220	330	550	14	8	22

----- Program Structure -----

B.Sc. (AI & ML) SEMESTER III										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/AI ML3MCT1	Major Core	Introduction to Artificial Intelligence	03	--	20	30	50	2	--	2
U24/AI ML3MCT2		Data Structures	03	--	20	30	50	2	--	2
U24/AI ML3MCP1		Lab Course Data Structures	--	4	20	30	50	--	2	2
U24/AI ML3VSCT1	VSC	Lab Course on Database Management System	--	4	20	30	50	--	--	2
U24/AI ML3FPP1	FP/CEP	Field Project	--	4	20	30	50	--	2	2
U24/AI ML3MNT1A	Minor	Graph Theory	03	--	20	30	50	2	--	2
U24/AI ML3MNP1A		Practical on Graph Theory	--	4	20	30	50	--	2	2
OR		OR								
U24/AI ML3MNT1B		Inferential Statistics - I	03	--	20	30	50	2	--	2
U24/AI ML3MNP1B		Lab Course on Inferential Statistics - I	--	4	20	30	50	--	2	2
U24/AI ML3OET1	GE/OE	From College Basket	03	--	20	30	50	2	--	2
U24/AI ML3IKST1	IKS	Computing in Ancient India	03	--	20	30	50	2	--	02
U24/AI ML3AECT1	AEC	Sanskrit-I/Marathi-I/ Hindi-I	03	--	20	30	50	2	--	2
U24/AI ML3CCT1	CC	From College Basket	03	--	20	30	50	2	--	2
Total			21	16	220	330	550	14	8	22

B.Sc. (AI & ML) SEMESTER IV										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/AI ML4MCT1	Major Core	Python Programming	03	--	20	30	50	2	--	2
U24/AI ML4MCT2		Natural Language Processing	03	--	20	30	50	2	--	2
U24/AI ML4MCP1		Lab course on Python Programming and NLP	--	4	20	30	50	--	2	2
U24/AI ML4VSCT1	VSC	Lab Course on RDBMS	--	--	20	30	50	--	--	2
U24/AI ML4CEPP1	FP/CEP	Community Engagement Project	--	4	20	30	50	--	2	2
U24/AI ML4MNT1A	Minor	Linear Algebra	03	--	20	30	50	2	--	2
U24/AI ML4MNP1A		Linear Algebra	--	4	20	30	50	--	2	2
OR		OR								
U24/AI ML4MNT1B		Inferential Statistics - II	03	--	20	30	50	2	--	2
U24/AI ML4MNP1B		Lab Course on Inferential Inferential Statistics - II	--	4	20	30	50	--	2	2
U24/AI ML4OEP1	GE/OE	From College Basket	--	4	20	30	50	--	2	2
U24/AI ML4AECT1	SEC	Sanskrit -II/ Marathi-II/Hindi-II	03	--	20	30	50	2	--	2
U24/AI ML4SECP1	AEC	Computer Networks	03	--	20	30	50	2	--	2
U24/AI ML4CCT1	CC	NSS/NCC/Yoga Education/Health &Wellness	03	-	20	30	50	2	-	2
Total			18	20	220	330	550	12	10	22

----- Program Structure -----

B.Sc. (AI & ML) SEMESTER V										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/AI ML5MCT1	Major Core	Neural Network	03	--	20	30	50	2	--	2
U24/AI ML5MCT2		R-Programming	03	--	20	30	50	2	--	2
U24/AI ML5MCT3		Embedded Systems	03	--	20	30	50	2	2	2
U24/AI ML5MCT4		Data Visualization using Python	03	--	20	30	50	2	--	2
U24/AI ML5MCP1		Lab Course on Neural Network	--	4	20	30	50	--	2	2
U24/AI ML5MCP2		Lab course on R programming	--	4	20	30	50	--	--	2
U24/AI ML5MET1A	Major Elective	Core Java Programming	03	--	20	30	50	2	2	2
U24/AI ML5MEP1A		Lab course on Java Programming	--	4	20	30	50	--	2	2
OR		OR								
U24/AI ML5MET1B		Introduction to Front End Technologies	03	--	20	30	50	2	--	2
U24/AI ML5MEP1B		Lab course on Front End Technologies	--	4	20	30	50	--	2	2
U24/AI ML5VSCP1	VSC	Lab Course on Data Visualization	--	4	20	30	50	--	--	02
U24/AI ML5FPP1	FP/CEP	Field Project(FP)	--	4	20	30	50	--	--	2
U24/AI ML5MNT1	Minor	Logic(Theory)	03	--	20	30	50	2	--	2
		Statistics in RM	03	--	20	30	50	2	--	2
Total			18	20	220	330	550	12	10	22

B.Sc. (AI & ML) SEMESTER VI										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/AI ML6MCT1	Major Core	Deep Learning Algorithms	03	--	20	30	50	2	--	2
U24/AI ML6MCT2		Fuzzy Logic	03	--	20	30	50	2	--	2
U24/AI ML6MCT3		Introduction to Robotics	03	--	20	30	50	2	--	2
U24/AI ML6MCT4		Introduction to Data Science	03	--	20	30	50	2	--	2
U24/AI ML6MCP1		Deep Learning Algorithms And Robotics	--	4	20	30	50	--	2	2
U24/AI ML6MCP2		Advance Java Programming	--	4	20	30	50	--	2	2
U24/AI ML6MET1A	Major Elective	Lab course on Advance Java Programming	03	--	20	30	50	2		2
U24/AI ML6MEP2A		Lab Course on FULL StackDevelopment -II	--	4	20	30	50	--	2	2
OR		OR								
U24/AI ML6MET1B		Introduction to PHP	03	--	20	30	50	2	--	2
U24/AI ML6MEP2B		Practical on PHP	--	4	20	30	50	--	2	2
U24/AI ML6VSCP1	VSC	Lab Course on Mongo DB	-	4	20	30	50		2	2
U24/AI ML6OJTP1	OJT	On Job Training	-	2	40	60	100	--	4	4
Total			15	18	220	330	550	10	12	22

----- Program Structure -----

B.Sc. (AI & ML) Honors Degree: SEMESTER VII										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/AI ML7MCT1	Major Core	Data Analytics	2	-	20	30	50	2	-	2
U24/AI ML7MCT2		Internet of Things	4	-	40	60	100	4	-	4
U24/AI ML7MCT3		Data Mining	4	-	40	60	100	4	-	4
U24/AI ML7MCP1		Lab Course on Data Mining	-	4	20	30	50	-	2	2
U24/AI ML7MCP2		Lab course on Internet of Things	-	4	20	30	50	-	2	2
U24/AI ML7MET1A	Major Elective	Spring Framework	2	-	20	30	50	2	-	4
U24/AI ML7MEP1A		Lab Course on Spring Framework	-	4	20	30	50	-	2	2
OR		OR								
U24/AI ML7MET1B		MERN Stack Development	2	-	20	30	50	2	-	2
U24/AI ML7MEP1B		Lab Course on MEAN Stack Development	-	4	20	30	50	-	2	2
U24/AI ML7RMT1	RM	Research Methodology	4	-	100	-	100	4	-	4
Total			16	12	280	330	550	16	6	22

Note: If student want to go for semester long internship, then he has to opt below structure.

B.Sc. (AI & ML) Honors Degree: SEMESTER VIII										
Subject Code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	P	CCE	EE	Total	TH	P	Total
U24/AI ML8MCT1	Major Core	Big Data Analytics	03	--	20	30	50	2	--	2
U24/AI ML8MCT2		Digital Image Processing	05	--	40	60	100	4	--	4
U24/AI ML8MCT3		Quantum Computing	03	--	20	30	50	2	--	2
U24/AI ML8MCT4		Augmented Reality	03	--	20	30	50	2	--	2
U24/AI ML8MCP1		Lab course on Big Data Analytics	--	4	20	30	50	--	2	2
U24/AI ML8MCP2		Lab course on Digital Image Processing	--	4	20	30	50	--	2	2
U24/AI ML8MET1A	Major Elective	Hibernate Technologies	03		20	30	50	2	--	2
U24/AI ML8MEP1A		Lab Course on Hibernate Technologies	--	4	20	30	50	--	2	2
OR		OR								
U24/AI ML8MET1B		Advance Web Framework	03		20	30	50	2	--	2
U24/AI ML8MEP1B		Lab Course on Advanced Web Framework	--	4	20	30	50	--	2	2
U24/AI ML8OJTP1	OJT	On Job Training	-	2	40	60	100	-	4	4
Total			12	14	280	270	550	12	10	22