BIRLA INSTITUTE OF TECHNOLOGY- MESRA, RANCHI
NEW COURSE STRUCTURE - To be effective from academic session 2024-25 Based on CBCS & OBE model
Recommended scheme of study for M.Tech. (AI ML)

SEMESTER / Session of Study (Recommended)	Course Level	Categoryof Course	Course Code	Courses	Mode of delivery & credits*L-Lecture; T-Tutorial; P- Practicals*			Total Credits *C-Credits*
					L *(Periods/ week)*	T *(Periods /week)*	P *(Periods /week)*	C
THEORY								
FIRST / Monsoon	Fifth	Programme Core (PC)	AI501	Artificial Intelligence Concepts	3	0	0	3
			AI502	Advanced Concepts of Supervised Learning	3	0	0	3
			AI503	Advanced Concepts of Unsupervised Learning	3	0	0	3
			CS530	Linear Algebra	3	0	0	3
			CS531	Data Structures and Algorithm	3	0	0	3
								15
LABORATORIES								
	Fifth	Programme Core (PC) Lab	CS550	Data Structures and Algorithm Lab	4	0	0	2
			CS551	Machine Learning Lab	4	0	0	2
			MT132	Communication Skill-I	0	0	3	1.5
								5.5
TOTAL								15+5.5=20.5
SECOND/ Spring	Fifth	Programme		PE I	3	0	0	3

		Elective (PE)		PE II	3	0	0	3
				PE III	3	0	0	3
				PE IV	3	0	0	3
				PE V	3	0	0	3
								15
LABORATORIES								
	Fifth	Programme Elective (PE) Lab		PE I Lab	0	0	4	2
				PE II LAB	0	0	4	2
			MT133	Communication Skill-II	0	0	3	1.5
TOTAL								15+5.5=20.5
TOTAL FOR FIFTH LEVEL								20.5+20.5 =41
THIRD /Monsoon	Sixth	Programme Core (PC)	AI600	Thesis Part I				8
		Open Elective (OE)	*	OE 1/MOOC-I	3	0	0	3
		Open Elective (OE)	*	OE 2/MOOC-II	3	0	0	3
TOTAL								8+6=14
FOURTH/ Spring	Sixth	Programme Core (PC)	AI650	Thesis Part II				16
TOTAL								16
TOTAL FOR SIXTH LEVEL								14+16= 30
GRAND TOTAL FOR M.TECH. PROGRAMME (46 + 24)								71

List of Electives

Course Code	Courses	Mode of delivery & credits*L-Lecture; T-Tutorial; P- Practical*			Total Credits *C-Credits*
AI601	Concepts of Deep Learning	3	0	0	3
AI602	Modern Artificial Intelligence	3	0	0	3
AI626	Concepts of Reinforcement Learning	3	0	0	3
CS632	Data Analysis and Interpretation	3	0	0	3
CS636	Evolutionary Computing	3	0	0	3

Program Elective Labs

PE Lab					
Course Code	Courses	Mode of delivery & credits*L-Lecture; T-Tutorial; P- Practical*			Total Credits *C-Credits*
AI622	Advanced Concepts of Deep Learning Lab	0	0	4	2
CS689	Data Analytics Lab	0	0	4	2