POSTGRADUATE DEGREECOURSES
IN

COMPUTER SCIENCE
&
ENGINEERING

(Artificial Intelligence and Machine Learning)

(Engineering &Technology)

[Proposed Syllabus – 2023 onwards]

Department of Computer Science & Engineering
Dibrugarh University Institute of Engineering and Technology, Dibrugarh University
Dibrugarh, Assam-786004
India

Semester-wise structure of curriculum

[L= Lecture, T = Tutorials, P = Practical's & C = Credits]

Semester I (First year] Curriculum
Branch/Course: Computer Science Engineering

Sl. No.	Course Code	Course Title	Hours per week			Credits
			Lecture	Tutorial	Practical	
1	M. Tech-CSE-101	Mathematics for Machine Learning	3	0	0	3
2	M. Tech-CSE-111	Mathematics for Machine Learning Laboratory	0	0	2	1
3	M. Tech-CSE-102	Advanced-Data Structures	3	0	0	3
4	M. Tech-CSE-112	Advanced-Data Structures Laboratory	0	0	2	1
5	M. Tech-CSE-103	Data Warehousing & Pattern Mining	3	0	0	3
6	M. Tech-CSE-113	Data Warehousing & Pattern Mining Laboratory	0	0	2	1
7	M. Tech-CSE-104	Data Visualization & Machine Learning	3	0	0	3
8	M. Tech-CSE-114	Data Visualization & Machine Learning	0	0	2	1
9	M. Tech-CSE-105	Research Methodology and IPR	3	0	0	3
Total Credits						**19**

Semester II (First year) Curriculum
Branch/Course: Computer Science Engineering

Sl. No.	Code	Course Title	Hours per week			Credits
			Lecture	Tutorial	Practical	
1	M. Tech-CSE-201	Optimization Technique	3	0	0	3
2	M. Tech-CSE-202	Deep Neural Network	3	0	0	3
3	M. Tech-CSE-212	Deep Neural Network Laboratory	0	0	2	1
4	M. Tech-CSE-203	Artificial Intelligence & Knowledge Representation	3	0	0	3
5	M. Tech-CSE-213	Artificial Intelligence & Knowledge Representation Laboratory	0	0	2	1
6	M. Tech-CSE-204	Natural Language Processing	3	0	0	3
7	M. Tech-CSE-214	Natural Language Processing Laboratory	0	0	2	1
8	M. Tech-CSE-205	Elective-I	3	0	0	3
Total Credits						**18**

Elective-I Subjects:

(i) Reinforcement Learning
(ii) Graph Representation Learning
(iii) Information Retrieval
(iv) Knowledge Engineering and Expert Systems
(v) Number Theory & Cryptography

Semester III (Second year] Curriculum
Branch/Course: Computer Science Engineering

Sl. No.	Code	Course Title	Hours per week			Credits
			Lecture	Tutorial	Practical	
1	M. Tech-CSE-301	Technical Writing	0	0	2	0
2	M. Tech-CSE-312	Project-I	0	0	30	15
Total Credits						**15**

Semester IV (Second year] Curriculum
Branch/Course: Computer Science Engineering

Sl. No.	Code	Course Title	Hours per week			Credits
			Lecture	Tutorial	Practical	
1	M. Tech-CSE-411	Project-II	0	0	32	16
Total Credits						**16**