Course Structure & Curriculum

For M. Tech. Programme

In

Computer Science & Engineering (Specialization in Artificial Intelligence & Data Science)



Motilal Nehru National Institute of Technology Allahabad, Prayagraj

Motilal Nehru National Institute of Technology Allahabad

Department of Computer Science & Engineering

M.Tech CSE (Specialization in Artificial Intelligence & Data Science)

Proposed Curriculum

I - Semester :

Subject Code	Subject Name	L	T	P	Credits	ΤΑ	Mid Sem. Exam.	End Sem. Exam	Total Marks
CS21101	Data Science: Concepts and Methodologies	4			4	20	20	60	100
CS21201	Programming Lab-1			6	4	50	00	50	100
CS21XXX	Elective – I	4			4	20	20	60	100
CS21XXX	Elective – II	4			4	20	20	60	100
CS21XXX	Elective – III	4			4	20	20	60	100

Total Credits = 20

II - Semester :

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Subject Code	Subject Name	L	Τ	P	Credits	TA	Mid Sem. Exam.	End Sem. Exam	Total Marks
CS22201	Machine Learning	4			4	20	20	60	100
CS22103	Programming Lab2			6	4	20	20	60	100

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CS22XXX	Elective – IV	4	4	20	20	60	100
CS22XXX	Elective – V	4	4	20	20	60	100
	Elective – VI	4	4	20	20	60	100
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Total Credits = 20

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<u>III – Semester</u>

Subject Code	Subject Name	Credits	Total Marks
CS23601	Thesis/Project	16	100
CS23651	Colloquium/Term Project	4	100

Total Credits = 20

IV – Semester

Subject Code	Subject Name	Credits	Total Marks	
CS24601	Thesis/Project	20	100	

Total Credits = 20

Note : The distribution of thesis evaluation marks will be as follows :

- 1. Supervisor(s) evaluation component : 60%
- 2. Oral Board evaluation component : 40%

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List of Electives for M.Tech. CSE (Specialization in Artificial Intelligence & **Data Science)** - 41т

Elective I	
CS21301	Mathematical Foundation of Data science
CS21302	Numerical Optimization
CS21303	Probability and Statistical Models
Elective II	
CS21304	Artificial Intelligence
CS21305	Advanced Data Modeling
CS21306	High Performance Computing
CS21307	Data Acquisition and Productization
Elective III	
CS21308	Soft Computing Techniques
CS21309	Data Mining
CS21310	Edge and Cloud Computing
Elective IV	
CS22301	Medical Image Processing
CS22302	Advanced Algorithms
CS22303	Introduction to Bioinformatics and Genomics
CS22304	Big Data
CS22305	Data Analytics
Elective V	
CS22306	Computer Vision
CS22307	Natural Language processing
CS22308	Ethics of Data Science
CS22309	Privacy Preserving Data Mining
CS22310	Data Security and Application Security
CS22311	Visual Cryptography
CS22312	Information Retrieval
Elective VI	
CS22313	Advanced Database Systems
CS22314	Deep Learning
CS22315	Data Visualization
CS22316	Digital Ledger Technology
CS22317	Advanced Data Mining

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