

**Motilal Nehru National Institute of Technology Allahabad****Curriculum for M.Tech. (Computer Science & Engineering)****I – Semester :**

Subject Code	Subject Name	L	T	P	Credits	TA	Mid Sem. Exam.	End Sem. Exam	Total Marks
CS21101	Research Methodology	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 :**

Subject Code	Subject Name	L	T	P	Credits	TA	Mid Sem. Exam.	End Sem. Exam	Total Marks
CS22201	Programming Lab.-2			6	4	50	00	50	100
CS22101	Advance Computer Architecture	4			4	20	20	60	100
CS22XXX	Elective - IV	4			4	20	20	60	100
CS22XXX	Elective - V	4			4	20	20	60	100
CS22XXX	Elective - VI	4			4	20	20	60	100

**Total Credits = 20**

### III - Semester

Subject Code	Subject Name	Credits	Total Marks
CS23601	Thesis/Project	16	100
CS23651	Colloquim/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%

**Motilal Nehru National Institute of Technology Allahabad****Curriculum for M.Tech. (Software Engineering)****I – Semester :**

Subject Code	Subject Name	L	T	P	Credits	TA	Mid Sem. Exam.	End Sem. Exam	Total Marks
CS21101	Research Methodology	4			4	20	20	60	100
CS21201	Programming Lab-1			6	4	50	00	50	100
CS21XXX	Elective - I				4	20	20	60	100
CS21XXX	Elective - II				4	20	20	60	100
CS21XXX	Elective - III				4	20	20	60	100

**Total Credits = 20****II – Semester :**

Subject Code	Subject Name	L	T	P	Credits	TA	Mid Sem. Exam.	End Sem. Exam	Total Marks
CS22201	Programming Lab.-2			6	4	50	00	50	100
CS22102	Cloud Computing	4			4	20	20	60	100
CS22XXX	Elective - IV	4			4	20	20	60	100
CS22XXX	Elective - V	4			4	20	20	60	100
CS22XXX	Elective - VI	4			4	20	20	60	100

**Total Credits = 20**

### III - Semester

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

Total Credits = 20

### IV - Semester

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

Total Credits = 20

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## Motilal Nehru National Institute of Technology Allahabad

### Curriculum for M.Tech. (Information Security)

#### I – Semester :

Subject Code	Subject Name	L	T	P	Credits	TA	Mid Sem. Exam.	End Sem. Exam	Total Marks
CS21101	Research Methodology	4			4	20	20	60	100
CS21201	Programming Lab-1			6	4	50	00	50	100
CS21XXX	Elective - I			6	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 :

Subject Code	Subject Name	L	T	P	Credits	TA	Mid Sem. Exam.	End Sem. Exam	Total Marks
CS22201	Programming Lab.-2			6	4	50	00	50	100
CS22103	Secure E-Commerce	4			4	20	20	60	100
CS22XXX	Elective - IV	4			4	20	20	60	100
CS22XXX	Elective - V	4			4	20	20	60	100
CS22XXX	Elective - VI	4			4	20	20	60	100

Total Credits = 20

### III - Semester

Subject Code	Subject Name	Credits	Total Marks
CS23601	Thesis/Project	16	100
CS23651	Colloquim/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%

# **List of Electives for M.Tech. (Computer Science & Engineering)**

## **Elective I**

CS21111      Advanced Computer Network

CS21112      Distributed Computing

CS21113      Digital Image Processing

## **Elective II**

CS21114      Advanced Data Modeling

CS21115      Genetic Algorithm & Neural Network

## **Elective III**

CS21116      Real Time & Embedded Systems

CS21117      Data Mining

## **Elective IV**

CS22121      Advanced Algorithms

CS22122      Wireless Sensor Network

CS22123      Fault Tolerant Systems

## **Elective V**

CS22124      Semantic Web

CS22125      Formal Methods

CS22126      Object Oriented Modeling & Design

## **Elective VI**

CS22127      Advanced Database

CS22129      Wireless and Mobile Networks

# **List of Electives for M.Tech. (Software Engineering)**

## **Elective I**

- CS2111      Advanced Computer Network
- CS2112      Distributed Computing
- CS2113      Digital Image Processing

## **Elective II**

- CS2114      Advanced Data Modeling
- CS21115     Genetic Algorithm & Neural Network
- CS21119     Decision Support System

## **Elective III**

- CS21117     Data Mining
- CS21121     Software Metrics, Maintenance & Testing
- CS21122     Optimization Techniques

## **Elective IV**

- CS22121     Advanced Algorithms
- CS22119     Service Oriented Architecture
- CS22120     Social Network Analysis

## **Elective V**

- CS22214     Semantic Web
- CS22216     Object Oriented Modeling & Design
- CS22222     Information Retrieval

## **Elective VI**

- CS22217     Advance Database
- CS22223     Advance Software Engineering



# **List of Electives for M.Tech. (Information Security)**

## **Elective I**

CS21111      Advanced Computer Network

CS21133      Multimedia Systems

## **Elective II**

CS21114      Advanced Data Modeling

CS21130      Intellectual Property Rights

## **Elective III**

CS21123      Cryptography

CS21124      Network Security

CS22101      Advance Computer Architecture

## **Elective IV**

CS2211      Advanced Algorithms

CS2221      Cloud Computing

## **Elective V**

CS2214      Semantic Web

CS2216      Object Oriented Modeling & Design

CS2222      Information Retrieval

## **Elective VI**

CS2217      Advanced Database

CS2224      Forensics & Cyber Crime