

# B.TECH (AIML & CYBER SECURITY)

## Semester I

Sl. No.	Subject code	Course Title
1	BS-01	Engineering Physics-I
2	BS-02	Engineering Mathematics-I
3	ES-01	Digital Systems
4	ES-02	Problem Solving and Programming using C
5	ES-03	Design Thinking
6	HSM-01	Communication English
7	MNC-AU-01	IDEA lab workshop

## Semester II

Sl. No.	Subject code	Course Title
1	BS-03	Bioinformatics
2	BS-04	Engineering Mathematics-II
3	BS-05	Engineering Physics-II
4	ES-04	Data Structure using C++
5	ES-05	Python Programming
6	HSM-02	Universal Human Values
7	MNC-AU-02	Sports and Yoga or NSS/NCC

## Semester III

Sl. No.	Subject Code	Course Title
1	BS-06	Applied Statistics
2	PCC-01	Java Programming

3	PCC-02	Design and Analysis of Algorithm
4	PCC-03	Database Management System
5	ES-06	Artificial Intelligence & Machine Learning
6	ES-07	Computer Architecture & Organization
7	MNC-AU-03	Environmental Science
8	IKS	Indian Knowledge System
9	HONOURS-01	#
10	INT-01	Summer Internship-I (after Sem II)

## Semester IV

Sl. No.	Subject Code	Course Title
1	PCC-04	Operating System
2	PCC-05	Deep Learning
3	PCC-06	Computer Networks
4	PCC-07	Software Engineering
5	PCC-08	Fundamentals of Full Stack Development
6	PCC-09	Theory of Computation
7	MNC-AU-04	Constitution of India
8	HONOURS-02	#

## Semester V

Sl. No.	Subject Code	Course Title
1	PCC-10	Mobile Application Development

2	PCC-11	Information Theory Coding & Cryptography
3	PCC-12	System Administration
4	PCC-13	Computer Vision
5	PEC-01	*
6	MNC-AU-05	Data Mining and Warehousing
7	HONOURS-03	#
8	HONOURS-04	#
9	INT-02	Summer Internship-II (after Sem IV)

## Semester VI

Sl. No.	Subject Code	Course Title
1	PCC-14	Network Security
2	PCC-15	Minor Project
3	PCC-16	Cloud Computing
4	PEC-02	*
5	PEC-03	*
6	MNC-AU-06	Technology Innovation and Entrepreneurship
7	MOPEC-01	Student will opt course from other dept.
8	HONOURS-05	#

## Semester VII

Sl. No.	Subject Code	Course Title
1	PCC-17	Blockchain

2	PEC-04	*
3	PEC-05	*
4	PEC-06	*
5	MNC-AU-07	Cloud based product development/deployment
6	PR	Major Project
7	INT-03	Summer Internship-III (after Sem VI)
8	HONOURS-06	#

## Semester VIII

Sl. No.	Subject Code	Course Title
1	OJT	On-the-Job Training

BTech - CSE [AIML]

PEC

<b>Programme Electives</b>	<b>Choice 1</b>	<b>Choice 2</b>
PEC01	Internet of Things & Intelligent Devices	Natural Language Processing
PEC02	Embedded System Design	Speech Signal Processing
PEC03	Introduction to Game Theory	Social network analysis
PEC04	AI in Robotics	Information Retrieval and Search Engine
PEC05	Generative AI	Generative AI
PEC06	Responsible AI	Responsible AI

Hons

HON 01:	Data Visualzation
HON 02:	Fundamentals Of Cloud Computing
HON 03:	Big Data Analytics
HON 04:	Predictive Analytics
HON 05:	Data and Applied Science
HON 06:	AI Application Development
HON 07:	On Job Training

BTech - CSE [Cyber Security]

PEC

<b>Programme Electives</b>	<b>Choice 1</b>	<b>Choice 2</b>
PEC01	Vulnerability analysis and web application security	AI for cybersecurity
PEC02	Secure Software Engineering	Security and privacy for big data analytics
PEC03	Internet of Things Security	Social network analysis
PEC04	Cloud security	Cloud security
PEC05	Hardware security	Digital Media Forensics
PEC06	Ethical Hacking	Ethical Hacking

Hons

HON 01:	Frontend Technologies
HON 02:	Fundamentals of Cloud and Big Data
HON 03:	Security Governance and Law
HON 04:	Identity and Access Management
HON 05:	Penetrating Testing
HON 06:	Security Intelligence Engineer
HON 07:	On Job Training