

B.Tech Cyber Security — 3rd Year Curriculum Structure

B.Tech Cyber Security - 5th Semester			
Sr. No.	Course Code	Course Name	Type
1	BTES 505-20	Mathematics Foundations for Cryptography	Engineering Science
2	BTCS 501-18	Database Management Systems	Professional Core Courses
3	BTCS 502-18	Formal Language & Automata Theory	Professional Core Courses
4	BTCS 602-18	Artificial Intelligence	Professional Core Courses
5	BTCS 504-18	Computer Networks	Professional Core Courses
6	BTITCS XXX-18	Elective-I	Professional Elective
7	MC	Constitution of India / Essence of Indian Traditional Knowledge	Mandatory Courses
8	BTCS 505-18	Database Management Systems Lab	Professional Core Courses
9	BTCS 605-20	Artificial Intelligence Lab	Professional Core Courses
10	BTCS 507-18	Computer Networks Lab	Professional Core Courses
11	BTCS XXX-18	Elective-I Lab	Professional Elective
12	—	Industrial Training	Professional Training

B.Tech Cyber Security - 6th Semester			
Sr. No.	Course Code	Course Name	Type
1	BTCS 701-18	Network Security & Cryptography	Professional Core Courses
2	BTITCS601-20	Digital Forensics	Professional Core Courses
3	BT* UUU-18	Elective-II	Professional Elective Courses
4	BT* YYY-18	Elective-III	Professional Elective Courses
5	BTOE ***	Open Elective-I	Open Elective Courses
6	BTCS 603-18	Project-1	Project
7	BTITCS602-20	Network Security & Cryptography Lab	Professional Core Courses
8	BTITCS603-20	Digital Forensics Lab	Professional Core Courses

B.Tech Cyber Security - 6th Semester			
Sr. No.	Course Code	Course Name	Type
9	BTCS UUU-18	Elective-II Lab	Professional Elective Courses
10	BTCS YYY-18	Elective-III Lab	Professional Elective Courses

List of Electives

Elective I	
Course Code	Course Name
BTITCS503-20	Web Technologies
BTITCS504-20	Web Technologies Lab
BTAIML501-20	Programming in Python
BTAIML503-20	Programming in Python Lab
BTITCS603-20	Cyber Law & IPR
BTITCS604-20	Cyber Law & IPR Lab

Elective II	
Course Code	Course Name
BTITCS501-20	Internet of Things
BTITCS502-20	Internet of Things Lab
BTITCS703-20	Ethical Hacking
BTITCS704-20	Ethical Hacking Lab
BTITCS707-20	Cyber Attacks
BTITCS708-20	Cyber Attacks Lab

Elective III	
Course Code	Course Name
BTCS618-18	Machine Learning
BTCS619-18	Machine Learning Lab
BTITCS605-20	Intrusion Detection System (IDS)
BTITCS606-20	Intrusion Detection System (IDS) Lab
BTITCS705-20	Vulnerability Analysis and Penetration Testing
BTITCS706-20	Vulnerability Analysis and Penetration Testing Lab