

3rd Year Curriculum Structure

B.Tech CSE Data Science

B.Tech CSE Data Science – 5th Semester

Sr. No.	Course Code	Course Name	Type
1	BTES 501-20	Statistical Computing Techniques using R	Engineering Science
2	BTCS 501-18	Database Management Systems	Professional Core Courses
3	BTCS 502-18	Formal Language & Automata Theory	Professional Core Courses
4	BTAIML 501-20	Programming in Python	Professional Core Courses
5	BTAIML 502-20	Artificial Intelligence	Professional Core Courses
6	BTAIML *****	Elective-I	Professional Elective
7	MC	Constitution of India / Essence of Indian Traditional Knowledge	Mandatory Courses
8	BTES 502-20	Statistical Computing Techniques using R Lab	Engineering Science
9	BTCS 505-18	Database Management Systems Lab	Professional Core Courses
10	BTAIML 503-20	Programming in Python Lab	Professional Core Courses
11	BTAIML 504-20	Artificial Intelligence Lab	Professional Core Courses
12	BTAIML *****	Elective-I Lab	Professional Elective
13	—	Industrial Training	Professional Training

B.Tech CSE Data Science – 6th Semester

Sr. No.	Course Code	Course Name	Type
1	BTCS 702-18	Data Mining and Data Warehouse	Professional Core Courses
2	BTITCS601-20	Data Analytics using R	Professional Core Courses
3	BTCS UUU-18	Elective-II	Professional Elective Courses
4	BTCS YYY-18	Elective-III	Professional Elective Courses
5	BTOE ***	Open Elective-I	Open Elective Courses
6	BTCS 603-18	Project-1	Project
7	BTDS 601-20	Data Mining and Data Warehouse Lab	Professional Core Courses
8	BTDS 602-20	Data Analytics using R Lab	Professional Core Courses
9	BT* UUU-18	Elective-II Lab	Professional Elective Courses
10	BT* YYY-18	Elective-III Lab	Professional Elective Courses

List of Electives

Elective I

Course Code	Course Name
BTAIML505-20	Data Visualization using Tableau
BTAIML506-20	Data Visualization using Tableau Lab
BTAIML507-20	User Interface Development
BTAIML508-20	User Interface Development Lab
BTAIML509-20	Java Programming
BTAIML510-20	Java Programming Lab

Elective II

Course Code	Course Name
BTAIML601-20	Graph Theory
BTAIML602-20	Graph Theory Lab
BTAIML605-20	Recommender System
BTAIML606-20	Recommender System Lab
BTDS603-20	Big Data Analytics
BTDS604-20	Big Data Analytics Lab

Elective III

Course Code	Course Name
BTDS605-20	NoSQL using MongoDB
BTDS606-20	NoSQL using MongoDB Lab
BTCS618-18	Machine Learning
BTCS619-18	Machine Learning Lab
BTAIML701-20	Computer Vision
BTAIML702-20	Computer Vision Lab