Shreemati Nathibai Damodar Thackersey Women's University
1, Nathibai Thackersey Road, New Marine Lines, Mumbai-400020, Maharashtra (India)

Program Structure Scheme

For

Post Std 10+2,
4 Year(s) Bachelor Degree Program in

Faculty of Science and Technology

Bachelor Of Technology(B.Tech.)

(Credits System)

(Revised 2019-Regular)

Data Science

Program Code: -

Publisher's Note

This Shreemati Nathibai Damodar Thackersey Women's University has great Pleasure in publishing this program structure for Post Std 10+2 program for 4 Year(s) Bachelor Degree Program as "Bachelor Of Technology" (Revised 2019 - Regular) (Data Science) under the Faculty of "Faculty of Science and Technology".

On behalf of the University, I thank experts and authorities of the University for the interest taken and the whole hearted co-operation extended by them in bringing out this publication.

Date: 1/1/2022 11:21:26 AM
Shreemati Nathibai Damodar Thackersey Women's University ,1, Nathibai Thackersey Road, New Marine Lines, Mumbai-400020, Maharashtra (India) Registrar

Program Objective(s)

The Bachelor Of Technology Consists of following 3 program part(s):

Sr.No.	Program Part Name	Program Part Abbrevation	Examination Pattern
1	First Year	FY	Semester
2	Second Year	SY	Semester
3	Third Year	TY	Semester

The Bachelor Of Technology is available in following medium of instruction/s:

1. English

Program Part: FY Separate Passing Head: No, Min: 0, Max: 1050, Total Credits: 38.00

Term: Sem I Separate Passing Head: No, Min Courses: 8, Max Courses: 8, Min:0,Max:450, Total Credits: 17.50

The papers for FY - Sem I are classified into following groups:

1.Compulsory Group (Min Papers: 8, Max Papers: 8,
Separate Passing Head: No, Max. Marks: 450)
Select minimum 8 paper(s)
Select maximum 8 paper(s)

Papers:

110012	Mathematics-I
120021	Basic Electrical Engineering Lab
120022	Engineering Graphics and Design Lab
180051	Induction Programme
110011	Applied Science (Physics and Chemistry)
120011	Basic Electrical Engineering
120012	Engineering Graphics and Design
110021	Applied Science Lab

Term: Sem II Separate Passing Head: No, Min Courses: 10, Max Courses: 10, Min:0,Max:600, Total Credits: 20.50

The papers for FY - Sem II are classified into following groups:

1.Compulsory Group (Min Papers: 10, Max Papers: 10,
Separate Passing Head: No, Max. Marks: 600)
Select minimum 10 paper(s)
Select maximum 10 paper(s)

Papers:

210011	Applied Science (Physics and Chemistry)
210012	Mathematics-II
220011	Programming for Problem Solving
210021	Applied Science Lab
220021	Programming for Problem Solving Lab
230021	English Practical
280011	Environmental Sciences
230011	English
220012	Workshop/Manufacturing Practices
220022	Workshop/Manufacturing Practices Lab

Program Part: SY Separate Passing Head: No, Min: 0, Max: 1250, Total Credits: 41.00

Term: Sem III Separate Passing Head: No, Min Courses: 8, Max Courses: 8, Min:0,Max:550, Total Credits: 19.00

The papers for SY - Sem III are classified into following groups:

1.Compulsory Group (Min Papers: 8, Max Papers: 8,
Separate Passing Head: No, Max. Marks: 550)
Select minimum 8 paper(s)
Select maximum 8 paper(s)

Papers:

320511	Analog and Digital Electronics
343411	Data structure and Algorithms
340512	Introduction to Data Science
313411	Mathematics-III (Probability and Statistics)
331211	Economics for Engineers
343421	Data structure and Algorithms Lab
320521	Analog Digital Electronics Lab
340522	Data Science Lab Using Python

Term: Sem IV Separate Passing Head: No, Min Courses: 9, Max Courses: 9, Min:0,Max:700, Total Credits: 22.00

The papers for SY - Sem IV are classified into following groups:

1.Compulsory Group (Min Papers: 9, Max Papers: 9,
Separate Passing Head: No, Max. Marks: 700)
Select minimum 9 paper(s)
Select maximum 9 paper(s)

Papers:

443411	Discrete Mathematics
443413	Design and Analysis of Algorithms
440512	Database Mangement
440514	Data Mining
410511	Biology for Engineers
483451	Constitution of India
440522	Database Management Lab
443423	Design and Analysis of Algorithms Lab
440524	Data Mining Lab

Program Part: TY Separate Passing Head: No, Min: 0, Max: 1425, Total Credits: 44.00

Term: Sem V Separate Passing Head: No, Min Courses: 11, Max Courses: 11, Min:0,Max:725, Total Credits: 23.00

The papers for TY - Sem V are classified into following groups:

1.Compulsory Group (Min Papers: 9, Max Papers: 9,
Separate Passing Head: No, Max. Marks: 600)
Select minimum 9 paper(s)
Select maximum 9 paper(s)

Papers:

543413	Object Oriented Programming
540511	Data Network
540512	Architecture For Data Processing
535611	Humanities I (Effective Technical Communication)
540513	Analysing, Visualizing Applying data science
543423	Object Oriented Programming Lab
540521	Data Network Lab
540522	Architecture For Data Processing Lab
540523	Analysing, Visualizing and Applying data science Lab

2.Elective Group I (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 100)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

555611	Machine Learning & Computing
550511	Human Machine Interaction
555612	Image & Video Processing

3.Elective Lab Group I (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 25)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

550521	Human Machine Interaction Lab
555622	Image & Video Processing Lab
555621	Machine Learning & computing Lab

Term: Sem VI Separate Passing Head: No, Min Courses: 11, Max Courses: 11, Min:0,Max:700, Total Credits: 21.00

The papers for TY - Sem VI are classified into following groups:

1.Compulsory Group (Min Papers: 7, Max Papers: 7,
Separate Passing Head: No, Max. Marks: 450)
Select minimum 7 paper(s)
Select maximum 7 paper(s)

Papers:

625611	Microprocessor and Microcontroller
640511	Data Visualization
640512	Software Engineering
685611	Essence and importance of Indian Knowledge Tradition
670531	Project -I
640521	Data Visualization Lab
620521	Microprocessor and Microcontroller Lab

2.Elective Group II (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 100)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

653411	Artificial Intelligence
650511	Computer Security
650512	Advanced Database Management

3.Elective Group III (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 100)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

653414	Neural Network and Deep Learning
650513	Digital Advertising
650514	Computer Graphics

4.Elective Lab Group II (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 25)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

653421	Artificial Intelligence Lab
650521	Computer Security Lab
650522	Advanced Database Management Lab

5.Elective Lab Group III (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 25)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

653424	Neural Network and Deep Learning Lab
650523	Digital Advertising Lab
650524	Computer Graphics Lab