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)
Information Technology
Program Code: -

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) (Information Technology) 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 4 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
4	Final Year	Final Year	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:

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

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
220012	Workshop/Manufacturing Practices
230011	English
210021	Applied Science Lab
220021	Programming for Problem Solving Lab
220022	Workshop/Manufacturing Practices Lab
230021	English Practical
280011	Environmental Sciences

Program Part: SY Separate Passing Head: No, Min: 0, Max: 1225, 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: 9,
 Separate Passing Head: No, Max. Marks: 575)
Select minimum 8 paper(s)
Select maximum 9 paper(s)
Papers:

323411	Analog Electronics Circuits(IT)
343411	Data Structure and Algorithms (IT)
343412	Digital Electronics (IT)
343413	IT Workshop (Sci Lab/Octave/MATLAB) (IT)
313411	Mathematics-III (Probability and Statistics) (IT)
323421	AnalogElectronic Circuits Lab (IT)
343421	Data Structure and Algorithms Lab (IT)
343422	Digital Electronics Lab (IT)
343423	IT Workshop (Sci Lab/MATLAB) Lab (IT)

Term: Sem IV Separate Passing Head: No, Min Courses: 8, Max Courses: 9, Min:0,Max:650, Total Credits: 22.00

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

1.Compulsory Group (Min Papers: 8, Max Papers: 9,
 Separate Passing Head: No, Max. Marks: 700)
Select minimum 8 paper(s)
Select maximum 9 paper(s)
Papers:

	443411	Discrete Mathematics (IT)
	423411	Computer Organization and Architecture (IT)
	443412	Operating System (IT)
	443413	Design and Analysis of Algorithms (IT)
	433411	Management 1 Finance and Accounting (IT)
	483451	Constitution of India (IT)
	423421	Computer Organization and Architecture Lab (IT)
	443422	Operating Systems Lab (IT)
	443423	Design and Analysis of Algorithms Lab (IT)

Program Part: TY Separate Passing Head: No, Min: 0, Max: 1350, Total Credits: 42.00

Term: Sem V Separate Passing Head: No, Min Courses: 11, Max Courses: 11, Min:0,Max:675, Total Credits: 20.00

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: 550)
Select minimum 9 paper(s)
Select maximum 9 paper(s)
Papers:

	520411	Digital Signal Processing
	543411	Database Management Systems
	540412	Digital Image and Video Processing
	543413	Object Oriented Programming
	580011	Essence of Indian Knowledge Tradition
	520421	Digital Signal Processing Lab
	543421	Database Management Systems Lab
	540422	Digital Image and Video Processing Lab
	543423	Object Oriented Programming 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:

	553411	Software Engineering

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:

	553421	Software Engineering Lab

Term: Sem VI Separate Passing Head: No, Min Courses: 11, Max Courses: 11, Min:0,Max:675, Total Credits: 22.00

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

1.Compulsory Group (Min Papers: 6, Max Papers: 6,
 Separate Passing Head: No, Max. Marks: 325)
Select minimum 6 paper(s)
Select maximum 6 paper(s)

Papers:

	640411	Machine Learning
	643412	Computer Networks
	670431	Project I
	640421	Machine Learning Lab
	643422	Computer Networks Lab
	673421	UML with Java 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
	653412	Web Data Mining
	653413	Multi-agent Intelligence

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:

	650411	Internet of Things
	653415	Soft Computing
	653416	Optimization Techniques

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
	653422	Web Data Mining Lab
	653423	Multi-agent Intelligence 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:

	650421	Internet of Things Lab
	653425	Soft Computing Lab
	653426	Optimization Techniques Lab

6.Open 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:

	663411	Object Oriented Modeling and Design
	663412	Introduction to Philosophical Thoughts

Program Part: Final Year Separate Passing Head: No, Min: 0, Max: 1225, Total Credits: 42.00

Term: Sem VII Separate Passing Head: No, Min Courses: 9, Max Courses: 9, Min:0,Max:675, Total Credits: 22.00

The papers for Final Year - Sem VII are classified into following groups:

1.Compulsory Group (Min Papers: 3, Max Papers: 3,
 Separate Passing Head: No, Max. Marks: 300)
Select minimum 3 paper(s)
Select maximum 3 paper(s)
Papers:

740411	Digital Marketing
770431	Project -II
733411	Humanities II (Technical Communication and Professional Ethics)

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

753411	Cryptographic and Network Security
753412	Human Computer Interaction
753413	Quantum Computing

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

753414	Cloud Computing
753415	Parallel and Distributed Algorithm
750411	Enterprise Architecture

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

753416	Computational Data Analytics
753417	Ad-Hoc Sensor Network
750412	High Performance Computing

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

753421	Cryptographic and Network Security Lab
753422	Human Computer Interaction Lab
753423	Quantum Computing Lab

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

753424	Cloud Computing Lab
750421	Enterprise Architecture Lab
753425	Parallel and Distributed Algorithm Lab

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

753426	Data Analytics Lab
753427	Ad-Hoc Sensor Network Lab
750422	High Performance Computing Lab

Term: Sem VIII Separate Passing Head: No, Min Courses: 3, Max Courses: 3, Min:0,Max:550, Total Credits: 20.00

The papers for Final Year - Sem VIII are classified into following groups:

1.Compulsory Group (Min Papers: 2, Max Papers: 2,
 Separate Passing Head: No, Max. Marks: 500)
Select minimum 2 paper(s)
Select maximum 2 paper(s)

Papers:

870461	Internship
870431	Project -III

2.Open Elective Group II (Min Papers: 1, Max Papers: 1,
 Separate Passing Head: No, Max. Marks: 50)
Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

860411	Geospatial Data Processing Technologies
863411	Cyber Law and Ethics