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)

Computer Engineering

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) (Computer Engineering) 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.

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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:

110011	Applied Science (Physics and Chemistry)
110012	Mathematics-I
110021	Applied Science Lab
120011	Basic Electrical Engineering
120012	Engineering Graphics and Design
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
210021	Applied Science Lab
220011	Programming for Problem Solving
220012	Workshop/Manufacturing Practices
220021	Programming for Problem Solving Lab
220022	Workshop/Manufacturing Practices Lab
230011	English
230021	English Practical
280011	Environmental Sciences

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:

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

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:

423411	Computer Organization and Architecture
443412	Operating Systems
443413	Design and Analysis of Algorithms
433412	Management 1 (Finance and Accounting)
483451	Constitution of India
423421	Computer Organization and Architecture Lab
443422	Operating Systems Lab
443423	Design and Analysis of Algorithms Lab
443411	Discrete Mathematics

Program Part: TY Separate Passing Head: No, Min: 0, Max: 1400, Total Credits: 43.00

Term: Sem V Separate Passing Head: No, Min Courses: 10, Max Courses: 10, Min:0,Max:700, Total Credits: 22.00

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

1.Compulsory Group (Min Papers: 6, Max Papers: 6,
Separate Passing Head: No, Max. Marks: 450)
Select minimum 6 paper(s)
Select maximum 6 paper(s)

Papers:

543411	Database Management Systems
540312	Formal Language and Automata Theory
543413	Object Oriented Programming
535611	Humanities I(Effective Technical Communication)
543421	Database Management Systems 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:

555611	Machine Learning and Computing
555612	Image and Video Processing
550611	Information Theory and Coding

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:

555621	Machine Learning and Computing Lab
555622	Image and Video Processing Lab
550621	Information Theory and Coding Lab

4.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:

553411	Software Engineering
560611	Introduction to Philosophical Thoughts

5.Open 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
560621	Introduction to Philosophical Thoughts 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
640311	Complier Design
643412	Computer Networks
685611	Essence and Importance of Indian Knowledge Tradition
670631	Project-I
640321	Complier Design Lab
643422	Computer Networks 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 Intelligent

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
650611	Human Computer Interaction
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
653423	Multi-Agent Intelligent Lab
653422	Web Data Mining 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
650621	Human Computer Interaction Lab
653426	Optimization Techniques Lab