



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)

Electronics

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) (Electronics) 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 Abbreviation	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: 1500, Total Credits: 41.00

Term: Sem III Separate Passing Head: No, Min Courses: 10, Max Courses: 10, Min:0,Max:750, Total Credits: 19.00

The papers for SY - Sem III 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:	
341211	Electronic Devices (EE)
341221	Electronic Devices Lab (EE)
341212	Digital System Design (EE)
341222	Digital System Design Lab (EE)
341213	Signals and System (EE)
341214	Computer Architecture (EE)
311211	Applied Mathematics (EE)
381251	Constitutions of India (EE)
391221	Data Structure and Algorithms Lab (EE)

2.Optional Group (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 50)

Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

331211	Economics for Engineer (EE)
331212	Women Law (EE)

Term: Sem IV Separate Passing Head: No, Min Courses: 10, Max Courses: 10, Min:0,Max:750, 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: 750) Select minimum 9 paper(s) Select maximum 9 paper(s) Papers:	
441211	Electromagnetic Waves (EE)
441221	Electromagnetic Waves Lab (EE)
441212	Analog Circuits (EE)
441222	Analog Circuits Lab (EE)
441213	Microcontrollers (EE)
441223	Microcontrolles Lab (EE)
441214	Probability Theory and Stochastic Processes (EE)
441215	Network Theory (EE)
491221	Object Oriented Programming (EE)
2.Optional Group (Min Papers: 1, Max Papers: 1, Separate Passing Head: No, Max. Marks: 50) Select minimum 1 paper(s) Select maximum 1 paper(s) Papers:	
431211	Creating and Managing IPR/Patenting (EE)
431212	Professional Ethics (EE)
431213	Critical Thinking (EE)
431214	Fundamentals of Management for Engineers (EE)

Program Part: TY Separate Passing Head: No, Min: 0, Max: 1500, Total Credits: 42.00

Term: Sem V Separate Passing Head: No, Min Courses: 11, Max Courses: 11, Min:0,Max:750, 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: 600) Select minimum 9 paper(s) Select maximum 9 paper(s) Papers:	
541211	Analog and Digital Communications
541221	Analog and Digital Communications Lab
541212	Digital Signal Processing
541222	Digital Signal Processing Lab
541213	Control Systems
541223	Electronics Measurement Lab
531211	Effective Technical Communication
531221	Effective Technical Communication Lab
580011	Essence of Indian Traditional Knowledge
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:	
550211	Speech and Audio Processing
550212	Scientific Computing
550313	VLSI Design
3.Elective Lab Group I (Min Papers: 1, Max Papers: 1, Separate Passing Head: No, Max. Marks: 50) Select minimum 1 paper(s)	

Select maximum 1 paper(s)

Papers:

550221	Speech and Audio Processing Lab
550222	Scientific Computing Lab
550223	VLSI Design Lab

Term: Sem VI Separate Passing Head: No, Min Courses: 10, Max Courses: 10, Min:0,Max:750, Total Credits: 22.00

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

<p>1.Compulsory Group (Min Papers: 6, Max Papers: 6, Separate Passing Head: No, Max. Marks: 400) Select minimum 6 paper(s) Select maximum 6 paper(s) Papers:</p> <table><tr><td>640211</td><td>Power Electronics</td></tr><tr><td>640221</td><td>Power Electronics Lab</td></tr><tr><td>640212</td><td>VLSI</td></tr><tr><td>640222</td><td>VLSI Lab</td></tr><tr><td>670231</td><td>Mini Project</td></tr><tr><td>691221</td><td>Web Technology Lab / Tutorial</td></tr></table>	640211	Power Electronics	640221	Power Electronics Lab	640212	VLSI	640222	VLSI Lab	670231	Mini Project	691221	Web Technology Lab / Tutorial
640211	Power Electronics											
640221	Power Electronics Lab											
640212	VLSI											
640222	VLSI Lab											
670231	Mini Project											
691221	Web Technology Lab / Tutorial											
<p>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:</p> <table><tr><td>650211</td><td>Introduction to Hybrid and Electrical Vehicles</td></tr><tr><td>650212</td><td>CMOS Design</td></tr></table>	650211	Introduction to Hybrid and Electrical Vehicles	650212	CMOS Design								
650211	Introduction to Hybrid and Electrical Vehicles											
650212	CMOS Design											
<p>3.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:</p> <table><tr><td>660211</td><td>Antenna and Propagation</td></tr><tr><td>660212</td><td>Information Theory and Coding</td></tr></table>	660211	Antenna and Propagation	660212	Information Theory and Coding								
660211	Antenna and Propagation											
660212	Information Theory and Coding											
<p>4.Open 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:</p> <table><tr><td>660213</td><td>Radar</td></tr><tr><td>660214</td><td>Wireless and Mobile Communication</td></tr></table>	660213	Radar	660214	Wireless and Mobile Communication								
660213	Radar											
660214	Wireless and Mobile Communication											
<p>5.Open Elective Lab Group I (Min Papers: 1, Max Papers: 1, Separate Passing Head: No, Max. Marks: 50) Select minimum 1 paper(s) Select maximum 1 paper(s) Papers:</p> <table><tr><td>660221</td><td>Antenna and Propagation Lab</td></tr><tr><td>660222</td><td>Information Theory and Coding Lab</td></tr></table>	660221	Antenna and Propagation Lab	660222	Information Theory and Coding Lab								
660221	Antenna and Propagation Lab											
660222	Information Theory and Coding Lab											

Program Part: Final Year Separate Passing Head: No, Min: 0, Max: 1350, Total Credits: 41.00

Term: Sem VII Separate Passing Head: No, Min Courses: 9, Max Courses: 9, Min:0,Max:800, Total Credits: 22.00

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

<p>1.Compulsory Group (Min Papers: 2, Max Papers: 2, Separate Passing Head: No, Max. Marks: 150) Select minimum 2 paper(s) Select maximum 2 paper(s) Papers:</p> <table><tr><td>770231</td><td>Major Project-I</td></tr><tr><td>731211</td><td>Disaster Management</td></tr></table>	770231	Major Project-I	731211	Disaster Management
770231	Major Project-I			
731211	Disaster Management			
<p>2.Elective Group III (Min Papers: 1, Max Papers: 1, Separate Passing Head: No, Max. Marks: 100)</p>				

Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

750211	Renewable Energy Sources
750212	Consumer Electronics

3. 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:

750213	Robotics
750214	Mechatronics

4. 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:

750215	HDL
750216	Nano Electronics

5. Open 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:

760211	Cryptography
761211	Artificial Intelligence

6. Open 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:

761212	Machine Learning
760212	Wirless Sensor Network

7. Open 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:

760213	Cyber Security and Forensic
760214	Cloud Computing

8. Open Elective Lab Group IV (Min Papers: 1, Max Papers: 1,
Separate Passing Head: No, Max. Marks: 50)

Select minimum 1 paper(s)
Select maximum 1 paper(s)

Papers:

761222	Machine Learning Lab
760222	Wirless Sensor Network Lab

Term: Sem VIII Separate Passing Head: No, Min Courses: 3, Max Courses: 3, Min:0,Max:550, Total Credits: 19.00

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

1.Compulsory Group (Min Papers: 3, Max Papers: 3,
Separate Passing Head: No, Max. Marks: 550)
Select minimum 3 paper(s)
Select maximum 3 paper(s)

Papers:

821211	Design Thinking and Visualization
870261	Internship
870231	Major Project-II