

## CURRICULUM OUTLINE AND SCHEME OF EXAMINATIONS

### PROGRAMME: BASIC ENGINEERING

#### Scheme and Regulations:

Term	Course code and course name in M9A scheme		Alternative course code and Course name in M10 scheme	
I	M9ABE101	Communication English-I	M10BE101	Communication English-I
	M9ABE103	Engineering Mathematics-I	M10BE102	Engineering Mathematics
	M9ABE106	Engineering Physics-I	M10BE103	Engineering Physics-I
	M9ABE108	Engineering Chemistry-I	M10BE104	Engineering Chemistry-I
	M9ABE201	Engineering Graphics-I	M10BE105	Engineering Drawing
	M9ABE110	Engineering Physics Practical-I	M10BE106	Engineering Physics & Solar Physics Practical-I
	M9ABE112	Engineering Chemistry Practical-I	M10BE107	Engineering Chemistry & Nano Science Practical-I
	M9ABE203	Workshop Practice	M10BE116	Workshop Practice
II	M9ABE102	Communication English-II	M10BE109	Communication English-II
	M9ABE104	Engineering Mathematics-II	M10BE102	Engineering Mathematics
	M9ABE105	Applied Mathematics	M10BE110	Applied Mathematics
	M9ABE107	Engineering Physics-II	M10BE111	Engineering Physics-II
	M9ABE109	Engineering Chemistry-II	M10BE112	Engineering Chemistry-II
	M9ABE202	Engineering Graphics-II	M10BE105	Engineering Drawing
	M9ABE111	Engineering Physics Practical-II	M10BE113	Engineering Physics & Solar Physics Practical-II
	M9ABE113	Engineering Chemistry Practical-II	M10BE114	Engineering Chemistry & Nano Science Practical-II
	M9ABE114	Creativity Lab on Solar Physics & Nano Science	No Equivalent	

Term	Course code and course name in M10 Scheme		Equivalent course code and Course name in N1 Scheme	
I	M10BE101	Communication English-I	No Equivalent Course	
	M10BE102	Engineering Mathematics	N1BE102	Engineering Mathematics
	M10BE103	Engineering Physics-I	N1BE103	Engineering Physics-I
	M10BE104	Engineering Chemistry-I	No Equivalent Course	
	M10BE105	Engineering Drawing	N1BE201	Engineering Graphics
	M10BE106	Engineering Physics & Solar Physics Practical-I	N1BE105	Engineering Physics-I Practical
	M10BE107	Engineering Chemistry & Nano Science Practical -I	N1BE106	Engineering Chemistry-I Practical
	M10BE108	Computer applications Practical	No Equivalent Course	
	M10CE201	Basics of civil Engineering materials-I	No Equivalent Course	
	M10CE202	Construction Practical-I	No Equivalent Course	
	M10ME201	Basic Mechanical Engineering –I	No Equivalent Course	
	M10ME202	Basic Mechanical Engineering –I Practical	No Equivalent Course	
	M10EE201	Elements of electrical Engineering	No Equivalent Course	
	M10EE202	Electrical writing practical	No Equivalent Course	
	M10EC201	Basics of Electronics Engineering	No Equivalent Course	
	M10EC202	Basics of Electronics Engineering Practical	No Equivalent Course	
	M10GT201	Fashion Art and Design	No Equivalent Course	
	M10GT202	Fashion Illustration Practical	No Equivalent Course	
	M10CT201	Basics of Computer and Networks	No Equivalent Course	
	M10CT202	Basics of Computer Hardware & networks Practical	No Equivalent Course	
M10PT201	Introduction to plastic materials	No Equivalent Course		
M10PT202	Plastics materials Practical	No Equivalent Course		

Term	Course code and course name in M10 Scheme		Equivalent course code and Course name in N1 Scheme	
II	M10BE109	Communication English-II	No Equivalent Course	
	M10BE110	Applied Mathematics	N1BE110	Applied Mathematics
	M10BE111	Engineering Physics-II	N1BE111	Engineering Physics-II
	M10BE112	Engineering Chemistry-II	No Equivalent Course	
	M10BE113	Engineering Physics & Solar Physics Practical-II	N1BE113	Engineering Physics- II Practical
	M10BE114	Engineering Chemistry & Nano Science Practical -II	N1BE114	Engineering Chemistry-II Practical
	M10BE115	Computer Aided Drafting Practical	No Equivalent Course	
	M10BE116	Workshop Practice	No Equivalent Course	
	M10CE203	Basics of Civil Engineering Materials	No Equivalent Course	
	M10CE204	Construction Practical-II	No Equivalent Course	
	M10ME203	Basic Mechanical Engineering –II	No Equivalent Course	
	M10ME204	Basic Mechanical Engineering –II Practical	No Equivalent Course	
	M10EE203	Electrical Circuits	No Equivalent Course	
	M10EE204	Electrical Circuits Practical	No Equivalent Course	
	M10EC203	Basics of Electrical Engineering and Digital Electronics	No Equivalent Course	
	M10EC204	Basics of Electrical Engineering and Digital Electronics Practical	No Equivalent Course	
	M10GT203	Surface Enrichment	No Equivalent Course	
	M10GT204	Apparel Machinery Practical	No Equivalent Course	
	M10CT203	Fundamentals of Digital Computer	No Equivalent Course	
	M10CT204	Digital Computer Practical	No Equivalent Course	
M10PT203	Introduction to plastics Processing	No Equivalent Course		
M10PT204	Basic Plastics Processing Practical	No Equivalent Course		

**LIST OF COURSES:****M10-SCHEME****I FOUNDATION COURSES**

Course Code	Name of the course	Credits	Prerequisites
M10BE101	Communication English-I	2	-
M10BE102	Engineering Mathematics	5	-
M10BE103	Engineering Physics-I	3	-
M10BE104	Engineering Chemistry-I	3	-
M10BE105	Engineering Drawing	4	-
M10BE106	Engineering Physics & Solar Physics Practical-I	1	-
M10BE107	Engineering Chemistry & Nano Science Practical-I	1	-
M10BE108	Computer Applications Practical	1	-
M10BE109	Communication English –II	2	M10BE101
M10BE110	Applied Mathematics	5	M10BE102
M10BE111	Engineering Physics-II	3	M10BE103
M10BE112	Engineering Chemistry-II	3	M10BE104
M10BE113	Engineering Physics & Solar Physics Practical-II	1	M10BE106
M10BE114	Engineering Chemistry & Nano Science Practical-II	1	M10BE107
M10BE115	Computer Aided Drafting Practical	2	M10BE105
M10BE116	Workshop Practise	1	
	Total Credits	38	

**II CORE COURSES**

Course Code	Name of the course	Credits	Prerequisites
M10CT201	Basics of Computer and Networks	4	-
M10CT202	Basics of computer Hardware & networks Practical	2	-
M10CT203	Fundamentals of Digital Computer	4	-
M10CT204	Digital Computer Practical	2	-
	Total Credits	12	-

**MPEC SYSTEM**  
**COURSEWISE CREDITS**

Name Of Course	Credits
FOUNDATION COURSES	38
CORE COURSES	12
Total Credits	50

**LIST OF COURSES:****N1-SCHEME****I FOUNDATION COURSES**

Course Code	Name of the course	Credits	Prerequisites
N1BE101	Communication English-I	2	-
N1BE102	Engineering Mathematics	5	-
N1BE103	Engineering Physics-I	3	-
N1BE104	Engineering Chemistry-I	3	-
N1BE105	Engineering Physics -I Practical	2	-
N1BE106	Engineering Chemistry -I Practical	2	-
N1BE107	Communication Skill Practical	3	-
N1BE108	Computer Applications Practical	3	-
N1BE109	Communication English –II	2	N1BE101
N1BE110	Applied Mathematics	4	N1BE102
N1BE111	Engineering Physics-II	2	N1BE103
N1BE112	Engineering Chemistry-II	2	N1BE104
N1BE113	Engineering Physics -II Practical	2	N1BE106
N1BE114	Engineering Chemistry -II Practical	2	N1BE107
	Total Credits	37	

**II CORE COURSES**

Course Code	Name of the Course	Credits	Prerequisites
N1BE201	Engineering Graphics	5	-
N1BE202	Engineering Drawing	5	N1BE201
N1BE203	Workshop Practice	3	-
	Total Credits	13	

**MPEC SYSTEM**  
**COURSEWISE CREDITS**

Name Of Course	Credits
Foundation Courses	37
Core Courses	13
<b>Total Credits</b>	<b>50</b>

<b>I TERM</b>			<b>II TERM</b>		
<b>S.NO</b>	<b>SUB.CODE</b>	<b>SUB.NAME</b>	<b>S.NO</b>	<b>SUB.CODE</b>	<b>SUB.NAME</b>
1.	N1BE101	Communication English-I	1.	N1BE109	Communication English –II
2.	N1BE102	Engineering Mathematics	2.	N1BE110	Applied Mathematics
3.	N1BE103	Engineering Physics-I	3.	N1BE111	Engineering Physics-II
4.	N1BE104	Engineering Chemistry-I	4.	N1BE112	Engineering Chemistry-II
5.	N1BE105	Engineering Physics -I Practical	5.	N1BE113	Engineering Physics -II Practical
6.	N1BE106	Engineering Chemistry - I Practical	6.	N1BE114	Engineering Chemistry -II Practical
7.	N1BE107	Communication Skill Practical			
8.	N1BE108	Computer Applications Practical			
<b>CORE COURSES</b>			<b>CORE COURSES</b>		
1.	N1BE201	Engineering Graphics	1.	N1BE202	Engineering Drawing
			2.	N1BE203	workshop practice