

**DEPARTMENT OF TECHNICAL EDUCATION**

From	To
Additional Director( Examination) (FAC), Directorate of Technical Education, Chennai 600 025	The Principals of All Government, Government Aided and Self-Financing Polytechnic Colleges and Special Institutions

Letter No. 002681/ Y3/CDC/2022 dated: 29.01.2022

Sir/Madam,

Sub:	Technical Education – Diploma Examinations –Grace chance for the old Diploma level students to appear for the Board Examinations October 2021(to be held during January to February 2022)– Relevant papers – Intimation - Reg.
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The Government has issued orders for granting permission to conduct the grace chance for the old Diploma Students of OR, NR, RR, RS(C), NS (D), G, J, K and L to appear for the Board Examinations for October 2021 to be held during January to February 2022.

The relevant papers for the major courses from OR, NR, RR, RS(C), NS(D), G, J, K and L Scheme and for allied courses in which the grace chance student must write the October 2021 examination is enclosed.

You are requested to disseminate the information to the old students by displaying it in the College Notice Board.

Encl: Annexure( in the next page)

Sd/-

Additional Director (Exam) (FAC)

**GRACE CHANCE  
RELEVANT  
PAPER  
OCTOBER 2021**

**Annexure**  
**RELEVANT PAPER FOR GRACE CHANCE**  
**October 2021- BOARD EXAMINATION**

**FIRST YEAR**

**REVISED REGULATION (1985-1989)**

<b>SEM</b>	<b>Sl. No.</b>	<b>Revised Regulation (RR) (Implemented academic year 1984-85)</b>	<b>Relevant papers in which the candidate must write in October 2021 Board Examinations.</b>
<b>I Year</b>	1.	English-I	30021 - Communication English – II(M Scheme)
	2.	English-II	30021 - Communication English – II(M- Scheme)
	3.	Mathematics – I	40012 - Engineering Mathematics -I (N Scheme)
	4.	Mathematics – II	40022 - Engineering Mathematics-II(N Scheme)
	5.	Physics	40023 - Engineering Physics – II (N Scheme)
	6.	Chemistry	40024 - Engineering Chemistry – II(N Scheme)
	7.	Technical Drawing	40025 - Engineering Graphics –II (N Scheme)
	8.	Physics Practical	40006 Physics Practical (N Scheme)
	9.	Chemistry Practical	40007 Chemistry Practical (N Scheme)
	10.	Workshop	30018 - Workshop Practice (MScheme)

## C' SCHEME (1988 – 1993)

For All Branches except Computer science & Engineering

SEM	Sl. No.	Revised Scheme (RS) ( C Scheme) (Implemented academic year 1987-88)	Relevant papers in which the candidate must write in October 2021 Board Examinations.
<b>I Year</b>	1.	English-I	30021 - Communication English – II
	2.	English-II	30021 - Communication English – II
	3.	Mathematics – I	40012 - Engineering Mathematics –I (N Scheme)
	4.	Mathematics – II	40022 - Engineering Mathematics-II (N Scheme)
	5.	Physics	40023 - Engineering Physics – II (N Scheme)
	6.	Chemistry	40024 - Engineering Chemistry – II (N Scheme)
	7.	Technical Drawing	40025 - Engineering Graphics -II (N Scheme)
	8.	Physics Practical	40006 Physics Practical (N Scheme)
	9.	Chemistry Practical	40007 Chemistry Practical (N Scheme)
	10.	Workshop	30018 - Workshop Practice (M Scheme)
<b><u>I Year</u></b> <b><u>Computer Science &amp; Engineering</u></b>			
	01	English-I	30021 - Communication English – II (M Scheme)
	02	English-II	30021 - Communication English – II (M Scheme)
	03	Applied Mathematics	40022 - Engineering Mathematics-II (N Scheme)
	04	Electronics Devices & Components	4052310 - Basics of Electrical & Electronics Engineering <b>III Sem Computer Engg(N Scheme)</b>
	05	Introduction to Computers	4052330 - C programming and data structure <b>III Sem Computer Engg(N Scheme)</b>
	06	Programming in BASIC	4052330 - C programming and data structure <b>III Sem Computer Engg(N Scheme)</b>
	07	Basics of Engineering	4052310 - Basics of Electrical & Electronics Engineering <b>III Sem Computer Engg(N Scheme)</b>
	08	Engineering Technical Drawing	40025 - Engineering Graphics -II (N Scheme)
	09	BASIC Programming Lab	BASIC Programming Lab ( <b>D scheme</b> )
	10	Electronics Devices & Components Lab	4052340 – Electrical & Electronics Engineering Practical <b>III Sem Computer Engg(N Scheme)</b>

### **‘D’ SCHEME (1992 – 2000)**

<b>SEM</b>	<b>Sl.No.</b>	<b>New Scheme [D Scheme] (Implemented academic year 1991-92)</b>	<b>Relevant papers in which the candidate has to write in October 2021 Board Examinations.</b>
<b>I Year</b>	1.	English-I	30021 - Communication English – II (M Scheme)
	2.	English-II	30021 - Communication English – II (M Scheme)
	3.	Mathematics – I	40012 - Engineering Mathematics –I (N Scheme)
	4.	Mathematics – II	40022 - Engineering Mathematics-II (N Scheme)
	5.	Physics	40023 - Engineering Physics – II (N Scheme)
	6.	Chemistry	40024 - Engineering Chemistry – II (N Scheme)
	7.	Technical Drawing	40025 - Engineering Graphics -II (N Scheme)
	8.	Physics Practical	40006 Physics Practical (N Scheme)
	9.	Chemistry Practical	40007 Chemistry Practical (N Scheme)
	10.	Workshop	30018 - Workshop Practice (M Scheme)

### ‘G’ SCHEME (1999-2004)

SEM	Sl. No.	G Scheme (Implemented academic year 1998-99)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
I Year	1.	English	30021 - Communication English – II (M Scheme)
	2.	Basics of Computer Science	4052330 - C programming and data structure <b>III Sem Computer Engg</b>
	3.	Mathematics – I	40012 - Engineering Mathematics –I( N Scheme)
	4.	Mathematics – II	40022 - Engineering Mathematics-II( N Scheme)
	5.	Physics	40023 - Engineering Physics – II ( N Scheme)
	6.	Chemistry	40024 - Engineering Chemistry – II( N Scheme)
	7.	Technical Drawing	40025 - Engineering Graphics -II ( N Scheme)
	8.	Physics Practical	40006 Physics Practical ( N Scheme)
	9.	Chemistry Practical	40007 Chemistry Practical ( N Scheme)
	10.	Workshop	30018 - Workshop Practice (M Scheme)

### ‘J’ SCHEME (2003 – 2008)

SEM	Sl. No.	J Scheme (Implemented academic year 2002-03)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
I Year	1.	English	30021 - Communication English – II (M Scheme)
	2.	Basics of Computer Science	4052330 - C programming and data structure <b>III Sem Computer Engg</b> (N Scheme)
	3.	Mathematics – I	40012 - Engineering Mathematics –I (N Scheme)
	4.	Mathematics – II	40022 - Engineering Mathematics-II (N Scheme)
	5.	Applied Physics	40023 - Engineering Physics – II (N Scheme)
	6.	Applied Chemistry	40024 - Engineering Chemistry – II (N Scheme)
	7.	Technical Drawing	40025 - Engineering Graphics -II (N Scheme)
	8.	Applied Physics Practical	40006 Physics Practical (N Scheme)
	9.	Applied Chemistry Practical	40007 Chemistry Practical (N Scheme)
	10	Workshop	30018 - Workshop Practice (M Scheme)
	11.	English Communication Practical	Circuit branches – IV semester – Life and Employability skill practical. Others - V Sem. Life and Employability skill practical

### ‘K’ SCHEME (2007 – 2011)

SEM	Sl. No.	K Scheme (Implemented academic year 2007-08)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
<b>I</b>	1.	Communication English -I	30011 - Communication English -I ( M Scheme)
	2.	Mathematics	40012 - Engineering Mathematics -I (N Scheme)
	3.	Engineering Physics-I	40013 - Engineering Physics-I (N Scheme)
	4.	Engineering Chemistry-I	40014 - Engineering Chemistry-I (N Scheme)
	5.	Engineering Graphics	--
	6.	Physics Practical	--
	7.	Chemistry Practical	--
	8.	Computer Application	--
	9.	Workshop Practice	--
<b>II</b>	1.	Communication English -II	30021 - Communication English –II( M Scheme)
	2.	Applied Mathematics	40022 - Engineering Mathematics-II(N Scheme)
	3.	Engineering Physics-II	40023 - Engineering Physics – II (N Scheme)
	4.	Engineering Chemistry-II	40024 - Engineering Chemistry – II (N Scheme)
	5.	Engineering Graphics	40025 - Engineering Graphics -II (N Scheme)
	6.	Physics Practical	40006 Physics Practical (N Scheme)
	7.	Chemistry Practical	40007 Chemistry Practical (N Scheme)
	8.	Computer Application	40002 Computer Application (N Scheme)
	9.	Workshop Practice	30018 - Workshop Practice ( M Scheme)



### ‘L’ SCHEME (2012 – 2015)

SEM	Sl. No.	L Scheme (Implemented academic year 2011-12)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
<b>I</b>	1.	Communication English -I	30011 - Communication English -I ( M Scheme)
	2.	Engineering Mathematics-I	40012 - Engineering Mathematics -I (N Scheme)
	3.	Engineering Mathematics-II	40012 - Engineering Mathematics -I (N Scheme)
	4.	Engineering Physics-I	40013 - Engineering Physics-I (N Scheme)
	5.	Engineering Chemistry-I	40014 - Engineering Chemistry-I (N Scheme)
	6.	Engineering Graphics-I	40015 – Engineering Graphics I (N Scheme)
	7.	Engineering Physics-I Practical	40006 Physics Practical (N Scheme)
	8.	Engineering Chemistry -I Practical	40007 Chemistry Practical (N Scheme)
<b>II</b>	1.	Communication English -II	30021 - Communication English –II( M Scheme)
	2.	Engineering Mathematics-III	40022 - Engineering Mathematics-II (N Scheme)
	3.	Engineering Mathematics-IV	30023 -Applied Mathematics( M Scheme)
	4.	Engineering Physics-II	40023 - Engineering Physics – II (N Scheme)
	5.	Engineering Chemistry-II	40024 - Engineering Chemistry – II (N Scheme)
	6.	Engineering Graphics-II	40025 - Engineering Graphics –II (N Scheme)
	7.	Engineering Physics-II Practical	40006 Physics Practical (N Scheme)
	8.	Engineering Chemistry -II Practical	40007 Chemistry Practical (N Scheme)
		Workshop Practice	30018 - Workshop Practice ( M Scheme)

### ‘M’ SCHEME (2016 – 2020)

SEM	Sl. No.	M Scheme (Implemented academic year 2015-2016)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
<b>I</b>	1.	Communication English -I	30011-- Communication English –I( M Scheme)
	2.	Engineering Mathematics - I	40012 - Engineering Mathematics -I (N Scheme)
	3.	Engineering Physics-I	40013 - Engineering Physics-I (N Scheme)
	4.	Engineering Chemistry-I	40014 - Engineering Chemistry-I (N Scheme)
	5.	Engineering Graphics I	40015 – Engineering Graphics I (N Scheme)
	6.	Engineering Physics I Practical	40006 Engineering Physics Practical
	7.	Engineering Chemistry I Practical	40007 Engineering Chemistry Practical
	8.	Workshop Practice	30018 -- Workshop Practice( M Scheme)
<b>II</b>	1.	Communication English -II	30021-- Communication English –II( M Scheme)
	2.	Engineering Mathematics - II	40022 - Engineering Mathematics-II (N Scheme)
	3.	Applied Mathematics	30023 -Applied Mathematics ( M Scheme)
	4.	Engineering Physics-II	40023 - Engineering Physics – II (N Scheme)
	5.	Engineering Chemistry-II	40024 - Engineering Chemistry – II (N Scheme)
	6.	Engineering Graphics II	40025 - Engineering Graphics –II (N Scheme)
	7.	Engineering Physics II Practical	40006 Engineering Physics Practical (N Scheme)
	8.	Engineering Chemistry II Practical	40007 Engineering Chemistry Practical (N Scheme)

# CIVIL ENGINEERING

## REVISED REGULATION (1985- 1989)

SEM	Sl. No.	Revised Regulation (RR) ( I year Admission 1984-85)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
<b>III</b>	1.	Engineering Mechanics	4010310-Mechanics of Solids( N Scheme)
	2.	Construction Materials & Practice	4010320-Construction Materials & Construction Practice ( N Scheme)
	3.	Transportation Engineering	Transportation Engineering (M Scheme)
	4.	Civil Engineering Drawing I	4010340-BUILDING PLANNING AND DRAWING( N Scheme)
	5.	Materials Testing Lab	4010360-MATERIAL TESTING LABORATORY – I( N Scheme)
	6.	Transportation Engineering Lab	CAD in Civil Engineering Drawing –I (M Scheme)
<b>IV</b>	1.	Hydraulics & Irrigation Engineering	Hydraulics (M Scheme)
	2.	Survey Theory I	Surveying-II (M Scheme)
	3.	Introduction to Computer Programming	4052330- C Programming and Data Structure (N Scheme) <b>of III Sem</b> <b>Computer Engg(N Scheme)</b>
	4.	Quantity Surveying I	Estimating and Costing – I (M Scheme)
	5.	Hydraulics Lab	Hydraulics & Plumbing Lab (M Scheme)
	6.	Survey Practical-I	Surveying Practice-I (M Scheme)
<b>V</b>	1.	Structural Engineering	Structural Engineering (M Scheme)
	2.	Environmental Engineering	Environmental Engineering and Pollution Control (M Scheme)
	3.	Survey Theory II	Surveying-II (M Scheme)
	4.	Civil Engineering Drawing II	CAD in Civil Engineering Drawing –II (M Scheme)
	5.	Environmental Engineering Lab	Environmental Engineering Lab ( <b>D Scheme</b> )
	6.	Survey Practical II	Surveying Practice-I (M Scheme)
<b>VI</b>	1.	Mechanics of Structures	Theory of Structures (M Scheme)
	2.	Construction Management	Construction Management with MIS (M Scheme)
	3.	Elective Theory	
		1.Concrete Structure & Technology	Structural Engineering (M Scheme)
		2.Building Technology & Services	Structural Engineering (M Scheme)
		3.Industrial Structures	Industrial Structures ( <b>C Scheme</b> )
	4.	Quantity Surveying-II	Estimating and Costing – I (M Scheme)
	5.	Construction Practice Lab	Construction Practice Lab (M Scheme)
	6.	Project Work	Project Work (M Scheme)

### ‘C’ SCHEME (1988-1993)

SEM	Sl. No.	Revised Scheme (RS) [ C Scheme] ( I year Admission 1987-88)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Engineering Mechanics	4010310-Mechanics of Solids ( N Scheme)
	2.	Construction Materials & Practice	4010320-Construction Materials & Construction Practice ( N Scheme)
	3.	Transportation Engineering	Transportation Engineering (M Scheme)
	4.	Civil Engineering Drawing I	4010340-BUILDING PLANNING AND DRAWING( N Scheme)
	5.	Materials Testing Lab	4010360-MATERIAL TESTING LABORATORY – I( N Scheme)
	6.	Transportation Engineering Lab	CAD in Civil Engineering Drawing –I (M Scheme)
IV	1.	Hydraulics & Irrigation Engineering	Hydraulics (M Scheme)
	2.	Survey Theory I	Surveying II (M Scheme)
	3.	Introduction to Computer Programming	4052330- C Programming and Data Structure (N Scheme) of III Sem Computer Engg(N Scheme)
	4.	Quantity Surveying I	Estimating and Costing I (M Scheme)
	5.	Hydraulics Lab	Hydraulics & Plumbing Lab (M Scheme)
	6.	Survey Practical-I	Surveying Practice-I (M Scheme)
V	1.	Structural Engineering	Structural Engineering (M Scheme)
	2.	Environmental Engineering	Environmental Engineering and Pollution Control (M Scheme)
	3.	Survey Theory II	Surveying II (M Scheme)
	4.	Civil Engineering Drawing II	CAD in Civil Engineering Drawing –II (M Scheme)
	5.	Environmental Engineering Lab	Environmental Engineering Lab (D Scheme)
	6.	Survey Practical II	Surveying Practice-I (M Scheme)
VI	1.	Mechanics of Structures	Theory of Structures (M Scheme)
	2.	Construction Management	Construction Management with MIS (M Scheme)
	3.	Elective Theory	
		1.Concrete Structure & Technology	Structural Engineering (M Scheme)
		2.Building Technology & Services	Structural Engineering (M Scheme)
		3.Industrial Structures	Industrial Structures ( C Scheme)
	4.	Quantity Surveying-II	Estimating and Costing I (M Scheme)
	5.	Construction Practice Lab	Construction Practice Lab (M Scheme)
	6.	Project Work	Project Work (M Scheme)

**‘D’ SCHEME (June 1992-October 2000)**

<b>SEM</b>	<b>Sl. No.</b>	<b>New Scheme [ D Scheme ] ( I year Admission 1991-92)</b>	<b>Relevant papers in which the candidate has to write in October 2021 Board Examinations.</b>
<b>III</b>	1.	Engineering Mechanics & Graphic Statics	4010310-Mechanics of Solids
	2.	Construction Materials & Practice	4010320-Construction Materials & Construction Practice
	3.	Surveying & Leveling	Surveying – II (M Scheme)
	4.	Building Drawing	4010340-BUILDING PLANNING AND DRAWING
	5.	Engineering Mechanics Lab	4010360-MATERIAL TESTING LABORATORY - I
	6.	Surveying Practical	Surveying Practice-I (M Scheme)
<b>IV</b>	1.	Hydraulics & Irrigation	Hydraulics (M Scheme)
	2.	Transportation Engineering	Transportation Engineering (M Scheme)
	3.	Theodolite Surveying	Surveying – II (M Scheme)
	4.	Transportation Engineering Lab	CAD in Civil Engineering Drawing –I (M Scheme)
	5.	Hydraulics Lab	Hydraulics & Plumbing Lab (M Scheme)
	6.	Survey Practical II	Surveying Practice II (M Scheme)
<b>V</b>	1.	Structural Engineering	Structural Engineering (M Scheme)
	2.	Environmental Engineering & Pollution Control	Environmental Engineering & Pollution Control (M Scheme)
	3.	Construction Management & Entrepreneurship	Construction Management with MIS(M Scheme)
	4.	Irrigation & P.H. Drawing	CAD in Civil Engineering Drawing –II (M Scheme)
	5.	Environmental Engineering lab	Environmental Engineering lab ( <b>D Scheme</b> )
	6.	Concrete & Construction Lab	Construction Practice Lab (M Scheme)
<b>VI</b>	1.	Mechanics of Structures	Theory of Structures (M Scheme)
	2.	Computer Programming & Applications	4052330- CProgramming and Data Structure (N Scheme) <b>of III Sem Computer Engg(N Scheme)</b>
	3.	Estimating & Costing	Estimating and Costing I (M Scheme)
	4.	Structural Drawing & Detailing	CAD in Civil Engineering Drawing –II (M Scheme)
	5.	Computer Programming & Applications Lab	Computer Applications in Civil Engineering Practice (M Scheme)
	6.	Project work	Project work (M Scheme)

### ‘G’ SCHEME (1999- 2004)

SEM	Sl. No.	G Scheme ( I year Admission 1998-99)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Engineering Mechanics	4010310-Mechanics of Solids
	2.	Construction Materials & Practice	4010320-Construction Materials & Construction Practice
	3.	Surveying-I	Surveying – II (M Scheme)
	4.	Civil Engineering Drawing-I	4010340-BUILDING PLANNING AND DRAWING
	5.	Material testing Lab	4010360-MATERIAL TESTING LABORATORY - I
	6.	Surveying Practice-I	Surveying Practice-I (M Scheme)
IV	1.	Hydraulics	Hydraulics (M Scheme)
	2.	Roads & Railways Engineering	Transportation Engineering (M Scheme)
	3.	Surveying-II	Surveying-II (M Scheme)
	4.	Quantity Surveying & Costing-I	Estimating and Costing I (M Scheme)
	5.	Hydraulics & Plumbing Lab	Hydraulics & Plumbing Lab (M Scheme)
	6.	Surveying Practice-II	Surveying Practice-II (M Scheme)
V	1.	Structural Engineering	Structural Engineering (M Scheme)
	2.	Environmental Engineering & Pollution Control	Environmental Engineering & Pollution Control (M Scheme)
	3.	Elective Theory-I	
		1.Irrigation Engineering	Water Resources Management (M Scheme)
		2.Building Services	Building Services(M Scheme)
		3.Town Planning	Town Planning (M Scheme)
		4.Rural Engineering Technology	Environmental Engineering and Pollution Control (M Scheme)
	4.	Civil Engineering Drawing-II	CAD in Civil Engineering Drawing –II (M Scheme)
	5.	Computer Application in Civil Engineering	Computer Applications in Civil Engineering (M Scheme) Practice
	6.	Material Testing Lab-II	Material Testing Lab –II (M Scheme)
VI	1.	Theory of Structures	Theory of Structures (M Scheme)
	2.	Construction Management & Entrepreneurship	Construction Management with MIS(M Scheme)
	3.	Elective Theory-II	
		1.Soil Mechanics & Foundation Engineering	Soil Mechanics and Foundation Engineering (M Scheme)
		2.Steel Timber & Masonry Structures	Steel Structures(M Scheme)
		3.Advanced Surveying	Surveying-II (M Scheme)
		4.Advanced Construction	Advanced Construction Technology (M Scheme)
	4.	Quantity Surveying & Costing II	Estimating and Costing I (M Scheme)
	5.	Construction Practice Lab	Construction Practice Lab (M Scheme)
	6.	Project Work	Project Work(M Scheme)

### ‘J’ SCHEME (2003- 2008)

SEM	Sl. No.	J Scheme ( I year Admission 2002-03)	Relevant paper in which the candidate must write in October 2021 Board Examinations.
III	1.	Engineering Mechanics	4010310-Mechanics of Solids (N Scheme)
	2.	Construction Materials &Practice	4010320-Construction Materials & Construction Practice (N Scheme)
	3.	Surveying	Surveying – II (M Scheme)
	4.	Civil Engineering Drawing-I	4010340-BUILDING PLANNING AND DRAWING(N Scheme)
	5.	Material testing Lab	4010360-MATERIAL TESTING LABORATORY – I(N Scheme)
	6.	Surveying Practice-I	Surveying Practice-I (M Scheme)
IV	1.	Theory of Structures	Theory of Structures (M Scheme)
	2.	Hydraulics	Hydraulics(M Scheme)
	3.	Transportation Engineering	Transportation Engineering (M Scheme)
	4.	Hydraulics Lab Practice	Hydraulics & Plumbing Lab (M Scheme)
	5.	CAD in Civil Engineering Drawing	CAD in Civil Engineering Drawing I(M Scheme)
	6.	Surveying Practice-II	Surveying Practice-II (M Scheme)
V	1.	Structural Engineering	Structural Engineering (M Scheme)
	2.	Estimating & Costing	Estimating & Costing –I (M Scheme)
	3.	Elective Theory-I	
		1. Elements of Interior Design	<b>31254</b> Elements of Interior Design of <b>V ARCH</b> (M Scheme)
		2.Advanced Construction Technology	Advanced Construction Technology (M Scheme)
		3.Soil Mechanics & Foundation Engineering	Soil Mechanics and Foundation Engineering (M Scheme)
	4.	Civil Engineering Drawing-II	CAD in Civil Engineering Drawing –II (M Scheme)
	5.	Computer Application in Civil Engineering	Computer Applications in Civil Engineering practice (M Scheme)
	6.	Material Testing Lab Practice-II	Material Testing Lab –II (M Scheme)
VI	1.	Construction Management & Entrepreneurship	Construction Management with MIS (M Scheme)
	2.	Environmental Engineering & Pollution Control	Environmental Engineering & Pollution Control (M Scheme)
	3.	Elective Theory II	
		1.Irrigation Engineering	Water Resources Management (M Scheme)
		2.Town planning	Town planning (M Scheme)
		3.Advanced RC Concrete Structure	Structural Engineering (M Scheme)
	4.	Environmental Engineering Lab Practice	Construction Practice lab (M Scheme)
	5.	Construction lab Practice	Construction Practice lab (M Scheme)
	6.	Project Work	Project Work (M Scheme)

### ‘K’ SCHEME (2007- 2011)

SEM	Sl. No	K Scheme ( I year Admission 2007-2008)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Engineering Mechanics	4010310-Mechanics of Solids (N Scheme)
	2.	Construction Materials and Practice	4010320-Construction Materials and Construction Practice (N Scheme)
	3.	Surveying	Surveying II (M Scheme)
	4.	Civil Engineering Drawing I	4010340-BUILDING PLANNING AND DRAWING(N Scheme)
	5.	Material Testing Lab Practice I	4010360-MATERIAL TESTING LABORATORY – I(N Scheme)
	6.	Surveying Practice I	Surveying Practice I (M Scheme)
IV	1.	Theory of Structures	Theory of Structures (M Scheme)
	2.	Environmental Engineering	Environmental Engineering and Pollution Control (M Scheme)
	3.	Transportation Engineering	Transportation Engineering (M Scheme)
	4.	Material Testing Lab Practice II	Material Testing Lab II(M Scheme)
	5.	CAD in Civil Engineering Drawing Practice I	CAD in Civil Engineering Drawing I (M Scheme)
	6.	Surveying Practice II	Surveying Practice II (M Scheme)
V	1.	Structural Engineering	Structural Engineering (M Scheme)
	2.	Quantity Surveying	Estimating and Costing I (M Scheme)
	3.	Elective Theory-I	
		Concrete Technology and Advanced Construction	Advanced Construction Technology (M Scheme)
		Elements of Interior Design	<b>31254-Elements of Interior Design of V ARCH( M scheme)</b>
	4.	CAD in Civil Engineering Drawing Practice II	CAD In Civil Engineering Drawing II (M Scheme)
VI	5.	Construction Lab Practice	Construction Practice Lab (M Scheme)
	6.	English Communication Practical	Life and Employability Skills Practical(M Scheme)
	1.	Construction Management with MIS	Construction Management with MIS (M Scheme)
	2.	Hydraulics	Hydraulics (M Scheme)
	3.	Elective Theory II	
		Town Planning	Town Planning (M Scheme)
		Water Resource Management	Water Resources Management (M Scheme)
	4.	Hydraulics and Plumbing Lab	Hydraulics Lab (M Scheme)
	5.	Computer Application In Civil Engineering	Computer Applications in Civil Engineering practice (M Scheme)
	6.	Project Work	Project Work (M Scheme)



### ‘L’ SCHEME (2011- 2015)

SEM	Sl. No	L Scheme ( I year Admission 2011-2012)	Relevant papers in which the candidate must write in October 2021 Board Examinations.
III	1.	Engineering Mechanics	4010310-Mechanics of Solids (N Scheme)
	2.	Construction Materials and Construction Practice	4010320-Construction Materials and Construction Practice (N Scheme)
	3.	Surveying I	4010330-Surveying(N Scheme)
	4.	Civil Engineering Drawing I	4010340-BUILDING PLANNING AND DRAWING(N Scheme)
	5.	Material Testing Lab I	4010360-MATERIAL TESTING LABORATORY – I(N Scheme)
	6.	Surveying Practice I	4010370-SURVEYING PRACTICE – I(N Scheme)
	7.	Computer Application Practical**	40002-COMPUTER APPLICATION PRACTICAL(N Scheme)
IV	1.	Theory of Structures	Theory of Structures( M Scheme)
	2.	Transportation Engineering	Transportation Engineering( M Scheme)
	3.	Surveying II	Surveying II( M Scheme)
	4.	Estimating and Costing I	Estimating and Costing I( M Scheme)
	5.	Material Testing Lab II	Material Testing Lab II( M Scheme)
	6.	Surveying Practice II	Surveying Practice II( M Scheme)
	7.	CAD in Civil Engineering Drawing I	CAD in Civil Engineering Drawing I( M Scheme)
V	1.	Structural Engineering	Structural Engineering( M Scheme)
	2.	Environmental Engineering and Pollution Control	Environmental Engineering and Pollution Control( M Scheme)
	3.	Elective Theory-I	
		Advanced Construction Technology	Advanced Construction Technology( M Scheme)
		Remote Sensing and GIS	Remote Sensing and GIS( M Scheme)
		Soil Mechanics and Foundation Engineering	Soil Mechanics and Foundation Engineering( M Scheme)
		Water Resources Management	Water Resources Management( M Scheme)
	4.	Civil Engineering Drawing II	Civil Engineering Drawing II ( M Scheme)
	5.	Construction Lab Practice	Construction Practice Lab ( M Scheme)
	6.	CAD In Civil Engineering Drawing II	CAD In Civil Engineering Drawing II ( M Scheme)
	7.	Communication and Life Skills Practical	Life and Employability Skills Practical ( M Scheme)
VI	1.	Construction Management with MIS	Construction Management with MIS ( M Scheme)
	2.	Hydraulics	Hydraulics ( M Scheme)
	3.	Elective Theory II	
		Steel Structures	Steel Structures ( M Scheme)
		Town Planning	Town Planning ( M Scheme)
		Earthquake Engineering	Earthquake Engineering (M Scheme)
		Building Services	Building Services( M Scheme)

	4.	Estimating And Costing II	Estimating And Costing II (M Scheme)
	5.	Hydraulics and Plumbing Lab	Hydraulics Lab ( M Scheme)
	6.	Computer Applications In Civil Engineering Practice	Computer Applications In Civil Engineering Practice( M Scheme)
	7.	Project Work	Project Work( M Scheme)

**MECHANICAL ENGINEERING**  
**REVISED REGULATION (1985-1989)**

<b>SEM</b>	<b>SL. No</b>	<b>Revised Regulation (RR) ( I year Admission 1984-85)</b>	<b>Relevant papers in which the candidate has to write in October 2021 Board Examinations.</b>
<b>III</b>	1.	Engineering Mechanics	4020310-Strength of Materials (N Scheme)
	2.	Production Technology-I	4020320-Manufacturing Technology – I(N Scheme)
	3.	Heat Power Engineering-I	Heat Power Engineering (M Scheme)
	4.	Machine Drawing	4020350 - Machine Drawing and CAD Practical(N Scheme)
	5.	Engineering Mechanics Lab	Strength of Materials and Fluid Mechanics Practical (M Scheme)
	6.	Workshop(Foundry & Welding)	4020360- Manufacturing Technology - I Practical(N Scheme)
<b>IV</b>	1.	Fluid Mechanics & Machines	Fluid Mechanics & Fluid Power (M Scheme)
	2.	Material science	Manufacturing Processes (M Scheme)
	3.	Electrical & Electronics Engineering	Electrical Drives & Control (M Scheme)
	4.	Machine Design & Drawing	4020350 - Machine Drawing and CAD Practical(N Scheme)
	5.	Fluid Mechanics & Machines Lab	Strength of Materials and Fluid Mechanics Practical (M Scheme)
	6.	Electrical & Electronics lab	Electrical Drives & Control Practical (M Scheme)
<b>V</b>	1.	Heat Power Engineering II	Heat Power Engineering (M Scheme)
	2.	Production Technology II	Special Machines (M Scheme)
	3.	Introduction to Computer Programming	C Programming and Data Structure <b>of III Sem Computer Engg (4052330)</b> (N Scheme)
	4.	Heat Power Engineering Lab	Thermal and Automobile Engineering Practical (M Scheme)
	5.	Workshop, Lathe Work	Workshop II(Turning, Drilling & Shaping) <b>( K Scheme)</b>
	6.	Special Machines I	Special Machines Practical (M Scheme)
<b>VI</b>	1.	Industrial Management	Industrial Engineering and Management (M Scheme)
	2.	Production Technology III	Special Machines (M Scheme)
	3.	Elective Theory	
		1.Automobile Technology	Thermal and Automobile Engineering (M Scheme)
		2.Refrigeration & Air conditioning	Refrigeration & Air conditioning (M Scheme)
		3.Metallurgy	Physical Metallurgy of <b>Foundry(SW) 4921330</b> (N Scheme)
		4.Machine Shop Technology	Special Machines (M Scheme)
		5.Welding Technology	4020360- Manufacturing Technology - I Practical(N Scheme)
		6.Agriculture & Farm Equipment Technology	Farm Machinery <b>of Agricultural Technology (32352)</b> (M Scheme)
		7.Machine Design & Drafting	Design of Machine Elements (M Scheme)
	4.	Elective Practical	Elective Practical
	5.	Workshop Special Machines –II	Workshop Special Machines –II <b>(D Scheme)</b>
	6.	Project Work & Entrepreneurship	Project Work (M Scheme)

### ‘C’ SCHEME (1988- 1993)

SEM	Sl. No	Revised Scheme(RS)[ C SCHEME ] ( I year Admission 1987-88)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
<b>III</b>	1.	Engineering Mechanics	4020310-Strength of materials (N Scheme)
	2.	Production Technology-I	4020320-Manufacturing Technology – I (N Scheme)
	3.	Heat Power Engineering-I	Heat Power Engineering (M Scheme)
	4.	Machine Drawing	4020350 - Machine Drawing and CAD Practical (N Scheme)
	5.	Engineering Mechanics Lab	Strength of Materials and Fluid Mechanics Practical (M Scheme)
	6.	Workshop(Foundry & Welding)	4020360- Manufacturing Technology - I Practical (N Scheme)
<b>IV</b>	1.	Fluid Mechanics & Machines	Fluid Mechanics & Fluid Power (M Scheme)
	2.	Material science	4020320-Manufacturing Technology – I (N Scheme)
	3.	Electrical & Electronics Engineering	Electrical Drives & Control (M Scheme)
	4.	Machine Design & Drawing	4020350 - Machine Drawing and CAD Practical(N Scheme)
	5.	Fluid Mechanics & Machines Lab	Strength of Materials and Fluid Mechanics Practical (M Scheme)
	6.	Electrical & Electronics lab	Electrical Drives & Control Practical (M Scheme)
<b>V</b>	1.	Heat Power Engineering II	Heat Power Engineering (M Scheme)
	2.	Production Technology II	Special Machines (M Scheme)
	3.	Introduction to Computer Programming	C Programming and Data Structure <b>of III Sem Computer Engg (4052330)</b> (N Scheme)
	4.	Heat Power Engineering Lab	Thermal and Automobile Engineering Practical (M Scheme)
	5.	Workshop, Lathe Work	Workshop II(Turning, Drilling & Shaping) <b>[K Scheme]</b>
	6.	Special Machines I	Special Machines Practical (M Scheme)
<b>VI</b>	1.	Industrial Management	Industrial Engineering and Management (M Scheme)
	2.	Production Technology III	Special Machines (M Scheme)
	3.	Elective Theory	
		1.Automobile Technology	Thermal and Automobile Engineering (M Scheme)
		2.Refrigeration & Air conditioning	Refrigeration and Air conditioning (M Scheme)
		3.Metallurgy	Physical Metallurgy of <b>Foundry(SW) 4921330 ( N Scheme)</b>
		4.Machine Shop Technology	Special Machines (M Scheme)

		5.Welding Technology	Manufacturing Processes (M Scheme)
		6.Agriculture & Farm Equipment Technology	Farm Machinery of <b>Agricultural Technology(32352)</b>
		7.Machine Design & Drafting	Design of Machine Elements(M Scheme)
	4.	Elective Practical	Elective Practical
	5.	Workshop Special Machines –II	Workshop Special Machines –II ( <b>D Scheme</b> )
	6.	Project Work & Entrepreneurship	Project Work (M Scheme)

### ‘D’ SCHEME (1992- 2000)

SEM	SL. NO.	New Scheme [ D Scheme] ( I year Admission 1991-92)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
<b>III</b>	1.	Mechanics of Materials	4020310-Strength of Materials (N Scheme)
	2.	Manufacturing Process	4020320-Manufacturing Technology – I (N Scheme)
	3.	Fluid Mechanics & Machines	Fluid Mechanics & Fluid Power(M Scheme)
	4.	Machine Design & Drawing – I	4020350 - Machine Drawing and CAD Practical (N Scheme)
	5.	Mechanics of Materials lab & Fluid Mechanics & Machines	Strength of Materials and Fluid Mechanics Practical (M Scheme)
	6.	Workshop-Foundry & Welding	4020360- Manufacturing Technology - I Practical (N Scheme)
<b>IV</b>	1.	Heat Power Engineering	Heat Power Engineering (M Scheme)
	2.	Machine Tool Technology	Special Machines (M Scheme)
	3.	Electrical & Electronics Engineering	Electrical Drives & Control (M Scheme)
	4.	Machine Design & Drawing II	4020350 - Machine Drawing and CAD Practical (N Scheme)
	5.	Workshop Lathe Work	Workshop II(Turning, Drilling & Shaping) <b>[K Scheme]</b>
	6.	Electrical & Electronics lab	Electrical Drives & Control Practical(M Scheme)
<b>V</b>	1.	Thermal Power Engineering	Heat Power Engineering (M Scheme)
	2.	Industrial Engineering	Industrial Engineering and Management(M Scheme)
	3.	Computer Programming & Applications	C Programming and Data Structure <b>of III Sem Computer Engg (4052330)</b> (N Scheme)
	4.	Thermal Power Engineering Lab	Thermal and Automobile Engineering Practical(M Scheme)
	5.	Computer Programming & Drafting Lab	Computer Programming & Drafting Lab <b>(D Scheme)</b>
	6.	Workshop Special machines I	Special Machines Practical (M Scheme)
<b>VI</b>	1.	Industrial Management	Industrial Engineering and Management(M Scheme)
	2.	Modern Production Process	Special Machines (M Scheme)
	3.	Elective Theory	
		1.Automobile Technology	Thermal and Automobile Engineering(M Scheme)
		2.Machine Shop Technology	Special Machines (M Scheme)
		3.Hydraulics & Pneumatic Power System	Fluid Mechanics and Fluid Power (M Scheme)
		4.Refrigeration & Air conditioning	Refrigeration and Air conditioning(M Scheme)
		5.Machine Design & Drafting	Design of Machine Elements (M Scheme)
	4.	Elective Practical	
		Machine Design & Drafting (Written Practical)	Special Machines Practical (M Scheme)

	5.	Workshop Special Machines II	Workshop Special Machines II( <b>D Scheme</b> )
	6.	Project work	Project Work(M Scheme)

### ‘G’ SCHEME (1999 -2004)

SEM	SL.N O.	G Scheme ( I year Admission 1998-99)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Mechanics of Materials	4020310-Strength of Materials (N Scheme)
	2.	Manufacturing Processes	4020320-Manufacturing Technology – I(N Scheme)
	3.	Fluid Mechanics & Fluid Power	Fluid Mechanics & Fluid Power(M Scheme)
	4.	Machine Drawing I	4020350 - Machine Drawing and CAD Practical(N Scheme)
	5.	Mechanics of Materials & Fluid Mechanics Lab	Strength of Materials and Fluid Mechanics Practical (M Scheme)
	6.	Workshop I (Smithy, Foundry & Welding)	4020360- Manufacturing Technology - I Practical(N Scheme)
IV	1.	Applied Thermodynamics	Heat Power Engineering (M Scheme)
	2.	Machine Shop Technology	Special Machines (M Scheme)
	3.	Electrical & Electronics Engineering	Electrical Drives & Control (M Scheme)
	4.	AutoCAD Lab	4020350 - Machine Drawing and CAD Practical(N Scheme)
	5.	Electrical & Electronics Engineering Lab	Electrical Drives & Control Practical(M Scheme)
	6.	Workshop II (Lathe & Metrology)	Workshop II(Turning, Drilling & Shaping) <b>(K Scheme)</b>
V	1.	Design of Machine Elements	Design of Machine Elements (M Scheme)
	2.	CAD/CAM	Computer Aided Design and Manufacturing(M Scheme)
	3.	Elective Theory I	
		1.Jigs,Fixtures& Gauges	Special Machines(M Scheme)
		2.Refrigeration & Air conditioning	Refrigeration and Air conditioning(M Scheme)
		3.Welding Technology	Manufacturing Processes (M Scheme)
		4.Metrology &Machine Tool Testing	Manufacturing Processes (M Scheme)
		5.Plastic Engineering	Plastic Processing of <b>V Sem Polymer Technology 37551</b> (M Scheme)
		6.Press Tools	Press Tools <b>of Mechanical (Tool &amp;Die) 32252</b> (M Scheme)
		7.Tool Engineering	Special Machines(M Scheme)
	4.	CAD/CAM Lab	Computer Aided Design and Manufacturing Practical(M Scheme)



	5.	Elective Practical-I	
		Jigs, Fixtures & Gauges (Written Practical)	Special Machines Practical (M Scheme)
		Press Tools (Written Practical)	4020360- Manufacturing Technology - I Practical (N Scheme)
		Tool Engineering (Written Practical)	4020360- Manufacturing Technology - I Practical (N Scheme)
	6.	Workshop III (Planner, Slotter, Shaper etc)	Special Machines Practical (M Scheme)
<b>VI</b>	1.	Industrial Engineering & Management	Industrial Engineering and Management(M Scheme)
	2.	Automobile Technology	Thermal and Automobile Engineering(M Scheme)
	3.	Elective Theory II	
		1.C++ Programming	C Programming and Data Structure <b>of III Sem Computer Engg (4052330)</b> (N Scheme)
		2.Farm Equipment Technology	Farm Machinery <b>of Agricultural Technology(32352)</b> (M Scheme)
		3.Foundry Technology	Moulding Materials and Processes of <b>Foundry(SW) 39153</b> (M Scheme)
		4.Metallurgy	4921330-Physical Metallurgy of <b>Foundry(SW)</b> ( N Scheme)
		5.TQM	Total Quality Management(M Scheme)
		6.Robotics	Robotics <b>of Electronics (Robotics) / Mechatronics Engineering 34763</b>
		7.Process Planning & Cost Estimation	Industrial Engineering And Management
	4.	Auto & Thermal Lab	Thermal and Automobile Engineering Practical
	5.	Elective Practical II	Elective Practical II
		TQM (Written practical)	TQM (Written practical) <b>(G scheme)</b>
		Process Planning and Cost Estimation (Written practical)	Process Planning and Cost Estimation (Written practical) <b>(G scheme)</b>
	6.	Project Work & Seminar	Project Work

### ‘J’ SCHEME (2003- 2008)

SEM	Sl.No.	J Scheme ( I year Admission 2002-03)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Mechanics of Materials	4020310-Strength of Materials ( N Scheme)
	2.	Manufacturing Processes	4020320-Manufacturing Technology – I( N Scheme)
	3.	Fluid Mechanics & Fluid Power	Fluid Mechanics & Fluid Power( M Scheme)
	4.	Machine Drawing	4020350 - Machine Drawing and CAD Practical( N Scheme)
	5.	Mechanics of Materials & Fluid Mechanics Lab	Strength of Materials and Fluid Mechanics Practical ( M Scheme)
	6.	Workshop I (Smithy, Foundry &Welding)	4020360- Manufacturing Technology - I Practical( N Scheme)
IV	1.	Applied Thermodynamics	Heat Power Engineering ( M Scheme)
	2.	Machine Shop Technology	Special Machines ( M Scheme)
	3.	Electrical & Electronics Engineering	Electrical Drives &Control ( M Scheme)
	4.	Thermodynamics Lab	Thermal and Automobile Engineering Practical( M Scheme)
	5.	Electrical & Electronics Engineering Lab	Electrical Drives & Control Practical( M Scheme)
	6.	Workshop II (Lathe & Metrology)	Workshop II(Turning, Drilling & Shaping) <b>[ K Scheme]</b>
V	1.	Design of Machine Elements	Design of Machine Elements ( M Scheme)
	2.	Thermal Engineering	Thermal and Automobile Engineering ( M Scheme)
	3.	Elective Theory-I	Elective Theory-I
		1.Foundry Technology	Molding Materials and Processes of <b>Foundry(SW)39153</b> ( M Scheme)
		2.Refrigeration & Air conditioning	Refrigeration and Air conditioning( M Scheme)
		3.Welding Technology	Manufacturing Processes ( M Scheme)
		4.Metrology &Machine Tool Testing	Manufacturing Processes ( M Scheme)
		5.Farm Equipment Technology	Farm Machinery of <b>Agricultural Technology (32352)</b> ( M Scheme)
	4.	AutoCAD Lab	4020350 - Machine Drawing and CAD Practical( N Scheme)
	5.	Elective Practical-I	Elective Practical-I( M Scheme)
	6.	Workshop III (Special Machines)	Special Machines Practical ( M Scheme)

<b>VI</b>	1.	Industrial Engineering & Management	Industrial Engineering and Management( M Scheme)
	2.	CAD/CAM	Computer Aided Design and Manufacturing( M Scheme)
	3.	Elective Theory-II	
		1.Automobile Technology	Thermal and Automobile Engineering ( M Scheme)
		2.Mechatronics	Robotics( M Scheme)
		3.Metallurgy	4921330-Physical Metallurgy of <b>Foundry(SW)</b> ( N Scheme)
		4.Plastic Engineering	Plastic Processing <b>of V Sem Polymer Technology (37551)</b> ( M Scheme)
		5.Robotics	Robotics <b>of Electronics (Robotics) / Mechatronics Engineering 34763</b> ( M Scheme)
	4.	CAD/CAM Lab	Computer Aided Design and Manufacturing Practical( M Scheme)
	5.	Elective Practical II	Elective Practical II( M Scheme)
	6.	Project Work, Entrepreneurship & Personal Skills	Project Work( M Scheme)

### ‘K’ SCHEME (2007- 2011)

SEM	SL. NO.	K Scheme ( I year Admission 2007-08)	Relevant papers in which the candidate has to write in October 2021 Board Examinations. M Scheme
III	1.	Mechanics of Materials	4020310-Strength of Materials (N Scheme)
	2.	Manufacturing Processes	4020320-Manufacturing Technology – I(N Scheme)
	3.	Fluid Mechanics & Fluid Power	Fluid Mechanics & Fluid Power( M Scheme)
	4.	Machine Drawing - CAD	4020350 - Machine Drawing and CAD Practical(N Scheme)
	5.	Mechanics of Materials & Fluid Mechanics Lab	Strength of Materials and Fluid Mechanics Practical ( M Scheme)
	6.	Workshop I (Smithy, Foundry &Welding)	4020360- Manufacturing Technology - I Practical(N Scheme)
IV	1.	Applied Thermodynamics	Heat Power Engineering ( M Scheme)
	2.	Machine Shop Technology	Special Machines ( M Scheme)
	3.	Electrical & Electronics Engineering	Electrical Drives & Control( M Scheme)
	4.	Thermodynamics Lab	Thermal and Automobile Engineering Practical ( M Scheme)
	5.	Electrical & Electronics Engineering Lab	Electrical Drives & Control Practical( M Scheme)
	6.	Workshop II (Turning, Drilling & Shaping)	Workshop II (Turning, Drilling & Shaping)( K Scheme)( M Scheme)
V	1.	Design of Machine Elements	Design of Machine Elements ( M Scheme)
	2.	Thermal Engineering	Thermal and Automobile Engineering ( M Scheme)
	3.	<b>Elective Theory-I</b>	
		1. Refrigeration and air conditioning	Refrigeration and Air-conditioning( M Scheme)
		2. Metrology, Machine Tool Maintenance and Testing	Manufacturing Processes ( M Scheme)
	4.	English Communication Practical	Life & Employability Skills Practical ( M Scheme)
	5.	<b>Elective Practical -I</b>	
		1. Refrigeration and air conditioning Lab	Refrigeration and Air-conditioning Practical ( M Scheme)
		2. Metrology, Machine Tool Maintenance and Testing Lab	Machine Tool Testing and Maintenance Practical( M Scheme)
	6.	Workshop-III (Slotting, Planning, Milling, Grinding & CNC Machines)	Special Machines Practical ( M Scheme)

<b>VI</b>	1.	Industrial Engineering & Management	Industrial Engineering and Management( M Scheme)
	2.	Computer Aided Design and Manufacturing	Computer Aided Design and Manufacturing( M Scheme)
	3.	<b>Elective Theory- II</b>	
		1. Automobile Technology	Thermal and Automobile Engineering ( M Scheme)
		2. Mechatronics	Robotics( M Scheme)
	4.	Computer Aided Design and Manufacturing Practical	Computer Aided Design and Manufacturing Practical( M Scheme)
	5.	<b>Elective Practical - II</b>	
		1. Automobile Technology Lab	Thermal and Automobile Engineering Practical( M Scheme)
		2. Mechatronics Lab	Robotics Practical( M Scheme)
	6.	Project Work, Entrepreneurship, Environment and Disaster Management	Project Work( M Scheme)

### ‘L’ SCHEME (2011- 2015)

SEM	Sl. No	L Scheme ( I year Admission 2011-2012)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Strength of Materials	4020310-Strength of Materials( N Scheme)
	2.	Fluid Mechanics & Fluid Power	Fluid Mechanics and Fluid Power( M Scheme)
	3.	Renewable Energy Sources	Renewable Energy Sources and Energy Conservation( M Scheme)
	4.	Machine Drawing	4020350- Machine Drawing and CAD Practical( N-Scheme)
	5.	Mechanical Testing & Quality Control Practical	Strength of Materials and Fluid Mechanics Practical( M Scheme)
	6.	Fluid Power Practical	Strength of Materials and Fluid Mechanics Practical( M Scheme)
	7.	Computer Applications Practical	4020350 - Machine Drawing and CAD Practical( N Scheme)
IV	1.	Manufacturing Technology – I	4020320-Manufacturing Technology – I ( N-Scheme)
	2.	Thermal Engineering – I	Heat Power Engineering( M Scheme)
	3.	Electrical Drives & Control	Electrical Drives & Control( M Scheme)
	4.	Computer Aided Machine Drawing Practical	4020350 - Machine Drawing and CAD Practical( N Scheme)
	5.	Manufacturing Technology – I Practical	4020360- Manufacturing Technology - I Practical ( N Scheme)
	6.	Metrology & Measurement and Machine Tool Testing Practical	Machine Tool Testing and Maintenance Practical( M Scheme)
	7.	Electrical Drives & Control Practical	Electrical Drives & Control Practical( M Scheme)
V	1.	Thermal Engineering – II	Thermal and Automobile Engineering ( M Scheme)
	2.	Manufacturing Technology – II	Special Machines( M Scheme)
	3.	Elective Theory-I	
		Total Quality Management	Total Quality Management( M Scheme)
		Modern Machining Processes	Special Machines( M Scheme)
		Power Plant Engineering	Thermal and Automobile Engineering( M Scheme)
	4.	Design of Machine Elements	Design of Machine Elements( M Scheme)
	5.	Thermal Engineering Practical	Thermal and Automobile Engineering Practical( M Scheme)
	6.	Manufacturing Technology – II Practical	Special Machines Practice( M Scheme)
VI	7.	Communication and Life Skills Practical	Life and Employability Skills Practical( M Scheme)
	1.	Industrial Engineering and Management	Industrial Engineering and Management( M Scheme)
	2.	Computer Integrated Manufacturing	Computer Aided Design and Manufacturing ( M Scheme)

	3.	Elective Theory II	
		Automobile Engineering	Thermal and Automobile Engineering( M Scheme)
		Robotics	Robotics( M Scheme)
		Refrigeration and Air-conditioning	Refrigeration and Air-conditioning( M Scheme)
		Rapid Proto-Typing in Product Design	Rapid Proto-Typing in Product Design (L Scheme)
	4.	Computer Integrated Manufacturing Practical	Computer Aided Design and Manufacturing Practical (M Scheme)
	5.	Process Automation Practical	Process Automation Practical (M Scheme)
	6	Elective Practical II	
		Automobile Engineering Practical	Thermal and Automobile Engineering Practical( M Scheme)
		Robotics Practical	Robotics Practical (M Scheme)
		Refrigeration and Air-conditioning Practical	Refrigeration and Air-conditioning Practical ( M-Scheme)
		Rapid Proto-Typing Practical	Rapid Proto-Typing Practical (L Scheme)
	7.	Project Work	Project Work( M Scheme)

# ELECTRONICS & COMMUNICATION ENGINEERING

REVISED REGULATION (1985- 1989)

SEM	SL. NO.	Revised Regulation (RR) ( I year Admission 1984-85)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Mathematics	40012 - Engineering Mathematics – I of <b>First Sem Diploma ( N Scheme)</b>
	2.	Electronic Devices	4040310 - Electronic Devices & Circuits( N Scheme)
	3.	Components, Circuits & Machines	4040320-Electrical Circuits & Instrumentation (N Scheme)
	4.	Introduction to Computer Programming	4040330-Programming in C ( N Scheme)
	5.	Devices Lab	4040340-Electronic Devices & Circuits Practical (N Scheme)
	6.	Circuits & Machines Lab	4040340-Electronic Devices & Circuits Practical (N Scheme)
IV	1.	Electronic Circuits	Electronic Devices & Circuits (M Scheme)
	2.	Measurements & Instrumentation	Electrical Circuits & Instrumentation(M Scheme)
	3.	Network, Antenna & Propagation	Communication Engineering (M Scheme)
	4.	Electronic Circuits Lab	4040340-Electronic Devices & Circuits Practical (N Scheme)
	5.	Measurements & Instrumentation Lab	4040350-Electrical Circuits & Instrumentation Practical (N Scheme)
	6.	Electronics Drafting & Tracing Lab	Electronics Drafting & Tracing Lab <b>(D Scheme)</b>
V	1.	Micro Electronics	Digital Electronics(M Scheme)
	2.	Communication System	Communication Engineering(M Scheme)
	3.	Elective Theory-I	
		1.Microwave Engineering	Advanced Communication Systems(M Scheme)
		2.Television Engineering	Television Engineering(M Scheme)
		3.Medical Electronics	Bio-Medical Instrumentation(M Scheme)
		4,PCB Design & Fabrication	Surface Mount Technology <b>(J-Scheme)</b>
	4.	Micro Electronics Lab	Integrated Circuits Practical(M Scheme)
	5.	Communication System & Servicing Lab	Industrial Electronics & Communication Engineering Practical(M Scheme)
	6.	Elective Practical-I	Elective Practical-I(as per theory scheme)
VI	1.	Microprocessor & its Application	Digital Electronics (M Scheme)
	2.	Industrial Electronics	Industrial Electronics (M Scheme)
	3.	Elective Theory II	



		1. Computer Programming in COBOL	COBOL Programming of Computer Technology( <b>G Scheme</b> )
		2. System Design using IC's	Advanced Communication Systems (M Scheme)
		3. Instrumentation & Control Systems	<b>4042320</b> -Basics of Instrumentation of III Instrumentation and Control Engg.( N Scheme)
		4. Advanced Communication Engineering	Advanced Communication Systems (M Scheme)
	4.	Microprocessor Lab	Microprocessor Lab ( <b>G Scheme</b> )
	5.	Industrial Electronics Lab	Industrial Electronics & Communication Engineering Practical(M Scheme)
	6.	Project Work & Entrepreneurship	Project Work(M Scheme)

### ‘C’ SCHEME ( 1988-1993)

SEM	SL. NO.	Revised Scheme (RS) [C Scheme] ( I year Admission 1987-88)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Mathematics	40012 - Engineering Mathematics – I of First Sem Diploma .( N Scheme)
	2.	Electronic Devices	4040310 - Electronic Devices & Circuits( N Scheme)
	3.	Components, Circuits & Machines	4040320-Electrical Circuits & Instrumentation (N Scheme)
	4.	Introduction to Computer Programming	4040330-Programming in C ( N Scheme)
	5.	Devices Lab	4040340-Electronic Devices & Circuits Practical (N Scheme)
	6.	Circuits & Machines Lab	4040340-Electronic Devices & Circuits Practical (N Scheme)
IV	1.	Electronic Circuits	Electronic Devices & Circuits (M Scheme)
	2.	Measurements & Instrumentation	Electrical Circuits & Instrumentation(M Scheme)
	3.	Network, Antenna & Propagation	Communication Engineering (M Scheme)
	4.	Electronic Circuits Lab	4040340-Electronic Devices & Circuits Practical (N Scheme)
	5.	Measurements & Instrumentation Lab	4040350-Electrical Circuits & Instrumentation Practical (N Scheme)
	6.	Electronics Drafting & Tracing Lab	Electronics Drafting & Tracing Lab (D Scheme)
V	1.	Micro Electronics	Digital Electronics (M Scheme)
	2.	Communication System	Communication Engineering (M Scheme)
	3.	Elective Theory-I	
		1.Microwave Engineering	Advanced Communication Systems (M Scheme)
		2.Television Engineering	Television Engineering (M Scheme)
		3.Medical Electronics	Bio-Medical Instrumentation (M Scheme)
		4,PCB Design & Fabrication	Surface Mount Technology (J Scheme)
	4.	Micro Electronics Lab	Integrated Circuits Practical (M Scheme)
	5.	Communication System & Servicing Lab	Industrial Electronics & Communication Engineering Practical (M Scheme)
	6.	Elective Practical-I	Elective Practical-I(as per theory scheme)
VI	1.	Microprocessor & its Application	Digital Electronics (M Scheme)
	2.	Industrial Electronics	Industrial Electronics (M Scheme)
	3.	Elective Theory II	
		1.Computer Programming in COBOL	COBOL Programming of Computer Technology(G Scheme)

		2.System Design using IC's	Advanced Communication Systems (M Scheme)
		3.Instrumentation & Control Systems	<b>4042320</b> -Basics of Instrumentation of III <b>Instrumentation and Control Engg.</b> ( N Scheme)
		4.Advanced Communication Engineering	Advanced Communication Systems (M Scheme)
	4.	Microprocessor Lab	Microprocessor Lab ( <b>G Scheme</b> )
	5.	Industrial Electronics Lab	Industrial Electronics & Communication Engineering Practical (M Scheme)
	6.	Project Work & Entrepreneurship	Project Work(M Scheme)

### ‘D’ SCHEME (1992- 2000)

SEM	SL. NO.	New Scheme [D Scheme] ( I year Admission 1991-92)	Relevant papers in which the candidate has to write in October 2021 Board Examinations
III	1.	Mathematics	40012 - Engineering Mathematics – I of <b>First Sem Diploma (N Scheme)</b>
	2.	Electronic Devices & Components	4040310 - Electronic Devices & Circuits( N Scheme)
	3.	Electrical Circuits & Machines	4040320-Electrical Circuits & Instrumentation (N Scheme)
	4.	Programming & Applications of Computer	4040330-Programming in C ( N Scheme)
	5.	Electronic Devices Lab	4040340-Electronic Devices & Circuits Practical (N Scheme)
	6.	Programming & Applications of Computer Lab	Programming & Applications of Computer Lab <b>( D Scheme)</b>
IV	1.	Electronic Circuits	Electronic Devices & Circuits (M Scheme)
	2.	Micro Electronics	Digital Electronics (M Scheme)
	3.	Network, Antenna & Propagation	Communication Engineering (M Scheme)
	4.	Electronic Circuits Lab	4040340-Electronic Devices & Circuits Practical (N Scheme)
	5.	Micro Electronics Lab	Integrated Circuits Practical (M Scheme)
	6.	Electronics Drafting & Tracing Lab	Electronics Drafting & Tracing Lab (M Scheme)
V	1.	Measurements & Instrumentation	Electrical Circuits & Instrumentation (M Scheme)
	2.	Communication Engineering	Communication Engineering (M Scheme)
	3.	Microprocessor & Applications	Digital Electronics (M Scheme)
	4.	Measurements & Instrumentation Lab	4040350-Electrical Circuits & Instrumentation Practical (N Scheme)
	5.	Communication Engineering Lab	Industrial Electronics & Communication Engineering Practical (M Scheme)
	6.	Microprocessor Lab	Microprocessor Lab <b>( G Scheme)</b>
VI	1.	Television Engineering	Television Engineering (M Scheme)
	2.	Communication Systems	Advanced Communication Systems (M Scheme)
	3.	Elective Theory	
		1.Microwave Engineering	Advanced Communication System (M Scheme)
		2.Industrial Electronics	Industrial Electronics (M Scheme)
		3.Computer Programming in COBOL	COBOL Programming of Computer Technology <b>(G Scheme)</b>
		4.Instrumentation & Control Systems	<b>4042320 -Basics of Instrumentation of III Instrumentation and Control Engg.( N Scheme)</b>
		5.PCB Design	Surface Mount Technology( <b>J Scheme)</b>
		6. C Programming Language	4052330- C Programming and Data Structure (N Scheme) of <b>Computer Engineering</b>
	4.	T.V. Servicing Lab	Television Engineering (M Scheme)
	5.	Elective Lab	Elective Lab (as per theory scheme)
	6.	Project Work & Entrepreneurship	Project Work (M Scheme)

**‘G’ SCHEME (1999- 2004)**

<b>SEM</b>	<b>SL. NO</b>	<b>G Scheme ( I year Admission 1998-99)</b>	<b>Relevant papers in which the candidate has to write in October 2021 Board Examinations.</b>
III	1.	Circuits & Machines	4040320-Electrical Circuits & Instrumentation (N Scheme)
	2.	Electronic Devices & Components	4040310 - Electronic Devices & Circuits( N Scheme)
	3.	C++ Programming	4040330-Programming in C ( N Scheme)
	4.	Circuits & Machines Lab	Electrical Circuits & Instrumentation Practical (M Scheme)
	5.	Electronic Devices & Components Lab	4040340-Electronic Devices & Circuits Practical (N Scheme)
	6.	C++ Programming Lab	C++ Programming Lab ( <b>J Scheme</b> )
IV	1.	Electronic Circuits	4040310 - Electronic Devices & Circuits( N Scheme)
	2.	Digital Electronics	Digital Electronics (M Scheme)
	3.	Measurements & Instrumentation	4040320-Electrical Circuits & Instrumentation (N Scheme)
	4.	Electronic Circuits Lab	4040340-Electronic Devices & Circuits Practical (N Scheme)
	5.	Digital Electronics Lab	Integrated Circuits Practical (M Scheme)
	6.	Measurements & Instrumentation Lab	4040350-Electrical Circuits & Instrumentation Practical (N Scheme)
V	1.	Microprocessor & Applications	Digital Electronics (M Scheme)
	2.	Communication Engineering	Communication Engineering(M Scheme)
	3.	Elective Theory-I	
		1.Visual Basic	Visual Basic ( <b>G Scheme</b> )
		2.Television Engineering	Television Engineering(M Scheme)
		3.Bio-Medical Instrumentation	Bio-Medical Instrumentation(M Scheme)
	4.	Microprocessor Lab	Microprocessor Lab ( <b>G Scheme</b> )
	5.	Communication Engineering Lab	Industrial Electronics & Communication Engineering Practical (M Scheme)
	6.	Elective Lab-I	Elective Lab I (as per theory scheme)
VI	1.	Industrial Electronics	Industrial Electronics (M Scheme)
	2.	Communication Systems	Advanced Communication Systems(M Scheme)
	3.	Elective Theory-II	
		1.Power Electronics	<b>34273 - Industrial Power Electronics ofV Instrumentation and Control Engg. (M Scheme)</b>
		2.Computer Installation & Servicing	Computer Hardware Servicing & Networking (M Scheme)
		3.Surface Mount Technology	Surface Mount Technology( <b>J Scheme</b> )
	4.	Industrial Electronics Lab	Industrial Electronics & Communication Engineering Practical(M Scheme)
	5.	Elective Lab II	Elective Lab II (as per theory scheme)
	6.	Project Work & Entrepreneurship	Project Work (M Scheme)

### ‘J’ SCHEME (2003 – 2008)

SEM	SL. NO.	J Scheme ( I year Admission 2002-03)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Electrical Circuits & Machines	4040320-Electrical Circuits & Instrumentation (N Scheme)
	2.	Electronic Devices & Components	4040310 - Electronic Devices & Circuits( N Scheme)
	3.	C++ Programming	4040330-Programming in C ( N Scheme)
	4.	Electrical Circuits & Machines Lab	Electrical Circuits & Instrumentation Practical (M Scheme)
	5.	Electronic Devices & Components Lab	4040340-Electronic Devices & Circuits Practical (N Scheme)
	6.	C++ Programming Lab	C++ Programming Lab ( J Scheme)
IV	1.	Electronic Circuits	4040310 - Electronic Devices & Circuits( N Scheme)
	2.	Digital Electronics	Digital Electronics (M Scheme)
	3.	Measurements & Instrumentation	4040320-Electrical Circuits & Instrumentation (N Scheme)
	4.	Electronic Circuits Lab	4040340-Electronic Devices & Circuits Practical (N Scheme)
	5.	Digital Electronics Lab	Integrated Circuits Practical (M Scheme)
	6.	Measurements & Instrumentation Lab	4040350-Electrical Circuits & Instrumentation Practical (N Scheme)
V	1.	Communication Engineering	Communication Engineering (M Scheme)
	2.	Microcontrollers & Advanced Microprocessors	Microcontroller (M Scheme)
	3.	Elective Theory-I	
		1.Surface Mount Technology	Surface Mount Technology(J Scheme)
		2.Computer Installation & Servicing	Computer Hardware Servicing & Networking (M Scheme)
		3.Bio-Medical Instrumentation	Bio-Medical Instrumentation (M Scheme)
		4.Power Electronics	<b>34273 - Industrial Power Electronics Of V Semester Instrumentation &amp; Control Engineering</b> (M Scheme)
	4.	Communication Engineering Lab	Industrial Electronics & Communication Engineering Practical (M Scheme)
	5.	Microcontrollers & Microprocessors Lab	Microcontroller Practical (M Scheme)
	6.	Elective I Lab	Elective I Lab (as per theory scheme)
VI	1.	Communication Systems	Advanced Communication Systems (M Scheme)
	2.	Industrial Electronics	Industrial Electronics (M Scheme)
	3.	Elective Theory-II	
		1.Digital Communication	Advanced Communication Systems (M Scheme)
		2.Television Engineering	Television Engineering (M Scheme)
		3.Computer Networks	Computer Hardware Servicing & Networking (M Scheme)

		4.Digital Signal Processing	Digital Signal Processing( <b>K Scheme</b> )
	4.	Communication Systems Lab	Advanced Communication Systems Practical (M Scheme)
	5.	Industrial Electronics Lab	Industrial Electronics & Communication Engineering Practical (M Scheme)
	6.	Project Work & Entrepreneurship	Project Work(M Scheme)

### ‘K’ SCHEME (2007 – 2011)

SEM	SL. NO.	K Scheme ( I year Admission 2007-08)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Electronic Devices and Circuits	4040310 - Electronic Devices & Circuits( N Scheme)
	2.	Electric Circuits and Instrumentation	4040320-Electrical Circuits & Instrumentation (N Scheme)
	3.	‘C’ Programming and OOPS	4040330-Programming in C ( N Scheme)
	4.	Electronic Devices and Circuits Lab	4040340-Electronic Devices & Circuits Practical (N Scheme)
	5.	Electric Circuits & Instrumentation Lab	4040350-Electrical Circuits & Instrumentation Practical (N Scheme)
	6.	‘C’ Programming Lab	4040360 - “ <b>Programming in C” Practical ( N Scheme)</b>
IV	1.	Analog and Digital Electronics	Digital Electronics (M Scheme)
	2.	Industrial Electronics	Industrial Electronics (M Scheme)
	3.	Communication Engineering	Communication Engineering (M Scheme)
	4.	Analog and Digital Electronics Lab	Integrated Circuits Practical (M Scheme)
	5.	IE and CE Lab	Industrial Electronics & Communication Engineering Practical (M Scheme)
	6.	English Communication Lab	Life and Employability Skills Practical (M Scheme)
V	1.	Microprocessor and Micro controller	Micro controller (M Scheme)
	2.	Advanced Communication Systems	Advanced Communication Systems (M Scheme)
	3.	Elective – I	
		1.Digital Signal Processing	<b>No alternative</b>
		2.VLSI	Very Large Scale Integration (M Scheme)
		3.Robotics and Auto-Electronics	<b>34763 Robotics and Auto Electronics of Electronics (Robotics) /Mechatronics (M Scheme)</b>
	4.	Microprocessor and Microcontroller Lab	Microcontroller Practical (M Scheme)
	5.	Advanced Communication Systems Lab	Advanced Communication Systems Practical (M Scheme)
	6.	Elective - I Lab	
		1. Digital Signal Processing Lab	<b>No alternative</b>
		2.VLSI Lab	Very Large Scale Integration Practical (M Scheme)
		3. Robotics and Auto-Electronics Lab	<b>34765 Robotics Practical of Electronics (Robotics) / Mechatronics (M Scheme)</b>



VI	1.	Computer Hardware and Networking	Computer Hardware Servicing & Networking (M Scheme)
	2.	Embedded Systems	Embedded Systems ( <b>L Scheme</b> )
	3.	Elective - II	
		1.Digital Image Processing	<b>No alternative</b>
		2.Television Engineering	Television Engineering (M Scheme)
		3.Bio-Medical Instrumentation	Bio medical Instrumentation (M Scheme)
	4.	Computer Hardware and Networking Lab	Computer Hardware Servicing & Networking practical (M Scheme)
	5.	Embedded Systems Lab	Embedded Systems Practical (M Scheme)
	6.	Project Work & Entrepreneurship	Project Work (M Scheme)

### ‘L’ SCHEME (2011- 2015)

SEM	Sl. No	L Scheme ( I year Admission 2011-2012)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Electronic Devices and Circuits	4040310 - Electronic Devices & Circuits ( N Scheme)
	2.	Electrical Circuits and Instrumentation	4040320-Electrical Circuits & Instrumentation (N Scheme)
	3.	‘C’ Programming*	4040330-Programming in C ( N Scheme)
	4.	Electronic Devices and Circuits Practical\$	4040340-Electronic Devices & Circuits Practical (N Scheme)
	5.	Electrical Circuits & Instrumentation Practical	4040350-Electrical Circuits & Instrumentation Practical (N Scheme)
	6.	“ Programming in C” Practical	4040360 - “ Programming in C” Practical ( N Scheme)
	7.	Computer Application Practical	40002- Computer Application Practical( N Scheme)
IV	1.	Industrial Electronics	Industrial Electronics( M Scheme)
	2.	Communication Engineering	Communication Engineering( M Scheme)
	3.	Digital Electronics\$	Digital Electronics( M Scheme)
	4.	Linear Integrated Circuits	Linear Integrated Circuits( M Scheme)
	5.	Industrial Electronics & Communication Engineering Practical	Industrial Electronics & Communication Engineering Practical( M Scheme)
	6.	Integrated Circuits Practical	Integrated Circuits Practical( M Scheme)
	7.	Communication and Life Skills Practical	Life and Employability Skills Practical
V	1.	Advanced Communication Systems	Advanced Communication Systems( M Scheme)
	2.	Microcontroller\$	Microcontroller( M Scheme)
	3.	Very Large Scale Integration	Very Large Scale Integration( M Scheme)
	4.	Elective Theory-I	
		Digital Communication	Digital Communication( M Scheme)
		Programmable Logic Control	Programmable Logic Control( M Scheme)
	5.	Advanced Communication Systems Practical	Advanced Communication Systems Practical( M Scheme)
	6.	Microcontroller Practical	Microcontroller Practical( M Scheme)
	7.	Very Large Scale Integration Practical	Very Large Scale Integration Practical( M Scheme)
VI	1.	Embedded Systems	Embedded Systems (L Scheme)
	2.	Computer Hardware and Network	Computer Hardware and Network( M Scheme)
	3.	Elective Theory II	
		Television Engineering	Television Engineering ( M Scheme)
		Biomedical Instrumentation	Biomedical Instrumentation ( M Scheme)
		Electronic System Design	Electronic System Design( M Scheme)
	4.	Embedded Systems Practical	Embedded Systems Practical( L Scheme)
	5.	Computer Hardware and Network Practical	Computer Hardware and Network Practical( M Scheme)
	6.	Simulation Practical	Simulation Practical( L Scheme)
	7.	Project Work	Project Work( M Scheme)

## ELECTRICAL & ELECTRONICS ENGINEERING

### REVISED REGULATION (1985-1989)

SEM	SL. No.	Revised Regulation (RR) ( I year Admission 1984-85)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Circuit Theory	4030320- Electrical Circuit Theory( N Scheme)
	2.	Machines-I	4030330-Electrical Machines-I (N Scheme)
	3.	Engineering Mechanics & Prime Movers	<b>37032 - Mechanical Engineering of III Chemical Engg.</b>
	4.	Drawing-I	Electrical Machine Drawing( <b>G Scheme</b> )
	5.	Machines Lab I	4030350-Electrical Circuits and Machines Practical (N Scheme)
	6.	Workshop-Foundry, Lathe & Welding	Foundry & Machine Shop( <b>G Scheme</b> )
IV	1.	Machines-II	Electrical Machines-II
	2.	Electronics-I	4040310-Electronic Devices and Circuits (N Scheme)
	3.	Measurements	Measurements & Instruments (M Scheme)
	4.	Drawing-II	Electrical Machine Drawing( <b>G Scheme</b> )
	5.	Machines Lab-II	Electrical Machines & Instrumentation Practical (M Scheme)
	6.	Electronics Lab-I	4040340-Electronic Devices and Circuits Practical (N Scheme)
V	1.	Generation, Transmission & Switch gear	Generation Transmission and Switchgear ( M Scheme)
	2.	Electronics-II	Digital Electronics ( M Scheme)
	3.	Control & Maintenance of machines	Control of Electrical machines ( M Scheme)
	4.	Wiring Lab, Winding Lab	Wiring, Winding Practical( M Scheme)
	5.	Electronics Lab-II	Integrated Circuits Practical ( M Scheme)
	6.	Control & Maintenance Lab	Control of Electrical machines Practical( M Scheme)
VI	1.	Computer Programming	4052330- CProgramming and Data Structure (N Scheme) <b>of III Computer Engg.</b>
	2.	Distribution & utilization	Distribution and Utilization( M Scheme)
	3.	Elective Theory	
		1.Industrial Electronics	Power Electronics( M Scheme)
		2.Television Engineering	<b>34081 -Television Engineering ofElectronics &amp; Communication Engineering</b>
		3.Microprocessor	Digital Electronics ( M Scheme)
		4.Static Relays & Protection	Static Relays & Protection ( <b>G Scheme</b> )
	4.	Estimating & Costing	Wiring, Winding Practical( M Scheme)
	5.	Elective Lab	Elective lab(as per theory scheme)
	6.	Project Work & Entrepreneurship	Project Work( M Scheme)

### ‘C’ SCHEME (1988- 1993)

SEM	SL. NO.	Revised Scheme(RS) [ C SCHEME] ( I year Admission 1987-88)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Circuit Theory	4030320- Electrical Circuit Theory( N Scheme)
	2.	Machines-I	4030330-Electrical Machines-I (N Scheme)
	3.	Engineering Mechanics & Prime Movers	<b>37032 - Mechanical Engineering of III Chemical Engg. (M Scheme)</b>
	4.	Drawing-I	Electrical Machine Drawing( <b>G Scheme</b> )
	5.	Machines Lab I	4030350-Electrical Circuits and Machines Practical (N Scheme)
	6.	Workshop-Foundry, Lathe & Welding	Foundry & Machine Shop( <b>G Scheme</b> )
IV	1.	Machines-II	Electrical Machines-II ( M Scheme)
	2.	Electronics-I	4040310-Electronic Devices and Circuits (N Scheme)
	3.	Measurements	Measurements & Instruments ( M Scheme)
	4.	Drawing-II	Electrical Machine Drawing( <b>G Scheme</b> )
	5.	Machines Lab-II	Electrical Machines & Instrumentation Practical ( M Scheme)
	6.	Electronics Lab-I	4040340-Electronic Devices and Circuits Practical (N Scheme)
V	1.	Generation, Transmission & Switch gear	Generation Transmission and Switchgear( M Scheme)
	2.	Electronics-II	Digital Electronics ( M Scheme)
	3.	Control & Maintenance of machines	Control of Electrical machines( M Scheme)
	4.	Wiring Lab, Winding Lab	Wiring, Winding Practical( M Scheme)
	5.	Electronics Lab-II	Integrated Circuits Practical( M Scheme)
	6.	Control & Maintenance Lab	Control of Electrical machines Practical( M Scheme)
VI	1.	Computer Programming	4052330- C Programming and Data Structure (N Scheme) <b>of III Computer Engg.</b>
	2.	Distribution & utilization	Distribution & Utilization( M Scheme)
	3.	Elective Theory	
		1.Industrial Electronics	Power Electronics( M Scheme)
		2.Television Engineering	<b>34081 - Television Engineering ofVI Electronics &amp; Communication Engineering( M Scheme)</b>
		3.Microprocessor	Digital Electronics ( M Scheme)
		4.Static Relays & Protection	Static Relays & Protection ( <b>G Scheme</b> )
	4.	Estimating & Costing	Wiring, Winding Practical ( M Scheme)
	5.	Elective Lab	Elective lab (as per theory scheme)
	6.	Project Work & Entrepreneurship	Project Work( M Scheme)

**‘D’ SCHEME (1992- 2000)**

<b>SEM</b>	<b>SL. NO.</b>	<b>New Scheme [ D Scheme ] ( I year Admission 1991-92)</b>	<b>Relevant papers in which the candidate has to write in October 2021 Board Examinations.</b>
<b>III</b>	1.	Circuit Theory	4030320- Electrical Circuit Theory( N Scheme)
	2.	Machines-I	4030330-Electrical Machines-I (N Scheme)
	3.	Engineering mechanics & Prime Movers	<b>37032</b> Mechanical Engineering of <b>III Chemical Engg.</b> ( M Scheme)
	4.	Drawing-I	Electrical Machine Drawing( <b>G Scheme</b> )
	5.	Machines Lab I	4030350-Electrical Circuits and Machines Practical (N Scheme)
	6.	Workshop-Foundry, Lathe & Welding	Foundry & Machine Shop( <b>G Scheme</b> )
<b>IV</b>	1.	Machines-II	Electrical Machines-II
	2.	Electronics-I	4040310-Electronic Devices and Circuits (N Scheme)
	3.	Measurements	Measurements & Instruments ( M Scheme)
	4.	Drawing-II	Electrical Machine Drawing( <b>G Scheme</b> )
	5.	Machines Lab-II	Electrical Machines & Instrumentation Practical( M Scheme)
	6.	Electronics Lab-I	4040340-Electronic Devices and Circuits Practical (N Scheme)
<b>V</b>	1.	Generation, Transmission & Switch gear	Generation Transmission and Switchgear( M Scheme)
	2.	Electronics-II	Digital Electronics ( M Scheme)
	3.	Control & Maintenance of machines	Control of Electrical machines ( M Scheme)
	4.	Electronics Lab-II	Integrated Circuits Practical ( M Scheme)
	5.	Control & Maintenance of machines Lab	Control of Electrical machines Practical( M Scheme)
	6.	Wiring, Winding & Estimating	Wiring, Winding Practical( M Scheme)
<b>VI</b>	1.	Computer Programming & Applications	4052330- CProgramming and Data Structure (N Scheme) <b>of III Computer Engg.</b>
	2.	Distribution & utilization	Distribution &Utilization( M Scheme)
	3.	Elective Theory	
		1.Industrial Electronics	Power Electronics( M Scheme)
		2.Television Engineering	<b>34081</b> - Television Engineering of <b>VI Electronics &amp; Communication Engineering</b> ( M Scheme)
		3.Microprocessor	Digital Electronics ( M Scheme)
		4.Static Relays & Protection	Static Relays & Protection ( <b>G Scheme</b> )
	4.	Computer Programming & Applications Lab	Computer Aided Electrical drawing Practical( M Scheme)
	5.	Elective Lab	Elective lab(as per theory scheme) ( M Scheme)
	6.	Project Work & Entrepreneurship	Project Work( M Scheme)

### ‘G’ SCHEME (1999-2004)

SEM	Sl. No.	G Scheme ( I year Admission 1998-99)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Electrical Circuit Theory	4030320- Electrical Circuit Theory( N Scheme)
	2.	Electrical Machines-I	4030330-Electrical Machines-I (N Scheme)
	3.	Programming C & Applications	4052330- CProgramming and Data Structure (N Scheme) of <b>Computer Engineering</b>
	4.	Electrical Machines-I Lab	4030350-Electrical Circuits and Machines Practical (N Scheme)
	5.	Programming C & Applications Lab	Programming C & Applications Lab ( <b>G Scheme</b> )
	6.	Foundry & Machine Shop	Foundry & Machine Shop ( <b>G Scheme</b> )
IV	1.	Electrical Machines-II	Electrical Machines-II ( M Scheme)
	2.	Electronic Devices & Circuits	4040310-Electronic Devices and Circuits (N Scheme)
	3.	Measurements & Instrumentation	Measurements & Instruments ( M Scheme)
	4.	Electrical Machine Drawing	Electrical Machine Drawing ( <b>G Scheme</b> )
	5.	Electrical Machines-II Lab	Electrical Machines & Instrumentation Practical ( M Scheme)
	6.	Electronic Devices & Circuits Lab	4040340-Electronic Devices and Circuits Practical (N Scheme)
V	1.	Generation, Transmission & Switch gear	Generation Transmission and Switchgear( M Scheme)
	2.	Digital Electronics & Microprocessor	Digital Electronics ( M Scheme)
	3.	Elective Theory-I	
		1.Static Relays & Protection	Static Relays & Protection ( <b>G Scheme</b> )
		2.Control & Maintenance of electrical machines	Control of Electrical machines ( M Scheme)
		3.Non-Conventional Energy Sources	<b>32073</b> Renewable Energy Sources and Energy Conservation of V <b>Semester Mechanical Engg.</b> ( M Scheme)
	4.	Wiring & Winding Lab	Wiring, Winding Practical( M Scheme)
	5.	Digital electronics &Microprocessor Lab	Integrated Circuits Practical( M Scheme)
	6.	Elective Practical-I	Elective Practical I(as per theory scheme)
VI	1.	Distribution & utilization	Distribution &Utilization( M Scheme)
	2.	Electrical Estimation	Electrical Estimation And Energy Auditing( M Scheme)
	3.	Elective Theory –II	
		1.Industrial Electronics	Power Electronics( M Scheme)
		2.Microprocessor & Applications	Digital Electronics ( M Scheme)
		3.Bio-medical Instrumentation	Biomedical Instrumentation( M Scheme)
	4.	Elective Practical-II	Elective Practical II(as per theory scheme)
	5.	Computer Aided Electrical Drawing Lab	Computer Aided Electrical drawing Practical( M Scheme)
	6.	Project Work & Entrepreneurship	Project Work( M Scheme)

### ‘J’ SCHEME (2003-2008)

SEM	SL. NO.	J Scheme ( I year Admission 2002-03)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Electrical Circuit Theory	4030320- Electrical Circuit Theory( N Scheme)
	2.	Electrical Machines-I	4030330-Electrical Machines-I (N Scheme)
	3.	Electronic Devices & Circuits	4040310-Electronic Devices and Circuits (N Scheme)
	4.	Electrical Machines Lab I	4030350-Electrical Circuits and Machines Practical (N Scheme)
	5.	Electronic Devices & Circuits Lab	4040340-Electronic Devices and Circuits Practical (N Scheme)
	6.	MS Office Lab	MS Office Lab ( J Scheme)
IV	1.	Electrical Machines-II	Electrical Machines-II ( M Scheme)
	2.	Measurements & Instrumentation	Measurements & Instruments ( M Scheme)
	3.	Basics of Mechanical Engineering	<b>37032 - Mechanical Engineering of III Semester Chemical Engg.</b>
	4.	Electrical Machines Lab-II	Electrical Machines & Instrumentation Practical( M Scheme)
	5.	Computer Aided Electrical Drawing Lab	Computer Aided Electrical drawing Practical( M Scheme)
	6.	Mechanical Engineering Lab	Workshop Practical ( M Scheme)
V	1.	Generation, Transmission & Switch gear	Generation Transmission & Switchgear( M Scheme)
	2.	Analog & Digital Electronics	Digital Electronics ( M Scheme)
	3.	Elective Theory-I	
		1.Programming in C	4052330- CProgramming and Data Structure (N Scheme) of <b>Computer Engineering</b> ( M Scheme)
		2.Control of Electrical machines	Control of Electrical machines ( M Scheme)
		3.Non-Conventional Energy Sources	<b>32073 - Renewable Energy Sources and Energy Conservation ofV Semester Mechanical Engg( M Scheme)</b>
		4.Electrical Machine Design	Electrical Machine Design ( M Scheme)
	4.	Wiring, Winding & Estimation Lab	Wiring, Winding Practical( M Scheme)
	5.	Analog & Digital Electronics Lab	Integrated Circuits Practical ( M Scheme)
	6.	Elective Practical-I	Elective Practical I(as per theory scheme)
VI	1.	Distribution & utilization	Distribution & Utilization( M Scheme)
	2.	Micro Controllers	Microcontroller ( M Scheme)
	3.	Elective Theory-II	
		1.Power Electronics	Power Electronics ( M Scheme)
		2.Programmable Logic Controller including Data Acquisition system(DAS)	Programmable Logic Controller ( M Scheme)
		3.Programming in C++	4052330- CProgramming and Data Structure (N Scheme) of <b>III Sem Computer Engg.</b>
		4.Computer Hardware Servicing	<b>35261 - Computer Hardware and Servicing of VI Computer Engg.</b>

	4.	Micro Controllers Lab	Microcontroller Practical ( M Scheme)
	5.	Elective Practical-II	Elective Practical II(as per theory scheme)
	6.	Project Work & Entrepreneurship	Project Work( M Scheme)



### ‘K’ SCHEME (2007-2011)

SEM	SL. NO.	K Scheme ( I year Admission 2007-08)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Electrical Circuit Theory	4030320- Electrical Circuit Theory( N Scheme)
	2.	Electrical Machines - I	4030330-Electrical Machines-I (N Scheme)
	3.	Electronic Devices and Circuits	4040310-Electronic Devices and Circuits (N Scheme)
	4.	Electrical Circuits and Machines Practical	4030350-Electrical Circuits and Machines Practical (N Scheme)
	5.	Electronic Devices and Circuits Practical	4040340-Electronic Devices and Circuits Practical (N Scheme)
	6.	Work Shop Practical	Work Shop Practical(L Scheme)
IV	1.	Electrical Machines - II	Electrical Machines - II ( M Scheme)
	2.	Measurements and Instrumentation	Measurements and Instruments ( M Scheme)
	3.	Analog and Digital Electronics	Digital Electronics ( M Scheme)
	4.	Electrical Machines and Instrumentation Practical	Electrical Machines and Instrumentation Practical( M Scheme)
	5.	Analog and Digital Electronics Practical	Integrated Circuits Practical ( M Scheme)
	6.	English Communication Practical	Life and Employability Skill Practical( M Scheme)
V	1.	Power System – I	Generation, Transmission and Switchgear ( M Scheme)
	2.	Microprocessor and Micro Controller	Micro Controller ( M Scheme)
	3.	<b>Elective Theory – I</b>	
		1. Control of Electrical Machines	Control of Electrical Machines ( M Scheme)
		2. Programmable Logic Controller	Programmable Logic Controller ( M Scheme)
		3. Electrical Machine Design	Electrical Machine Design ( M Scheme)
		<b>Practical</b>	
	4.	Wiring and Winding Practical	Wiring and Winding Practical ( M Scheme)
	5.	Micro Controller Practical	Micro Controller Practical( M Scheme)
	6.	<b>Elective Practical – I</b>	
		1. Control of Electrical Machines Practical	Control of Electrical Machines Practical ( M Scheme)
		2. Programmable Logic Controller Practical	Programmable Logic Controller Practical( M Scheme)
		3. Electrical Machine Design Practical	Electrical Machine Design Practical( M Scheme)
VI	1.	Power System – II	Distribution & Utilization( M Scheme)
	2.	Electrical Estimation	Electrical Estimation and Energy Auditing ( M

			Scheme)
	3.	<b>Elective Theory – II</b>	<b>Elective Theory – II</b>
		1. Power Electronics	Power Electronics ( M Scheme)
		2. Computer Hardware and Networking	Computer Hardware and Networks ( M Scheme)
		3. “C” Programming and OOPS	4052330- CProgramming and Data Structure (N Scheme) of computer <b>Engineering</b>
	4.	Computer Aided Electrical Drawing Practical	Computer Aided Electrical Drawing Practical( M Scheme)
	5.	<b>Elective Practical – II</b>	<b>Elective Practical – II</b>
		1. Power Electronics Practical	Power Electronics Practical( M Scheme)
		2. Computer Hardware andNetworking Practical	Computer Hardware and Networks Practical
		3. “C” Programming and OOPS Practical	<b>35236 – C Programming Practical ofComputer Engineering</b>
	6.	Project Work, Entrepreneurship, Environment and Disaster Management	Project Work( M Scheme)

### ‘L’ SCHEME (2011- 2015)

SEM	Sl. No	L Scheme ( I year Admission 2011-2012)	Relevant papers in which the candidate has to write in October 2021 Board Examinations. ‘N’ Scheme
III	1.	Electrical Circuit Theory	4030320- Electrical Circuit Theory( N Scheme)
	2.	Electrical Machines - I	4030330-Electrical Machines-I (N Scheme)
	3.	Electronic Devices and Circuits	4040310-Electronic Devices and Circuits (N Scheme)
	4.	Electrical Circuits and Machines Practical	4030350-Electrical Circuits and Machines Practical (N Scheme)
	5.	Electronic Devices and Circuits Practical	4040340-Electronic Devices and Circuits Practical (N Scheme)
	6.	Work Shop Practical	Work Shop Practical(L Scheme)
	7.	Computer Applications Practical	40002-Computer Applications Practical ( N Scheme)
IV	1.	Electrical Machines - II	Electrical Machines – II (M Scheme)
	2.	Measurements and Instruments	Measurements and Instruments(M Scheme)
	3.	Digital Electronics	Digital Electronics(M Scheme)
	4.	Transducers and Signal Conditioners	Transducers and Signal Conditioners(M Scheme)
	5.	Electrical Machines and Instrumentation Practical	Electrical Machines and Instrumentation Practical(M Scheme)
	6.	Digital Electronics & Linear Integrated Circuits Practical	Integrated Circuits Practical(M Scheme)
	7.	Communication and Life Skill Practice	Life and Employability Skill Practical(M Scheme)
V	1.	Power System – I	Generation Transmission and Switchgear(M Scheme)
	2.	Micro Controller	Micro Controller(M Scheme)
	3.	Special Electrical Machines	
	4.	Elective Theory-I	
		Control of Electrical Machines	Control of Electrical Machines(M Scheme)
		Programmable Logic Controller	Programmable Logic Controller(M Scheme)

		Electrical Machine Design	Electrical Machine Design(M Scheme)
	5.	Electrical Circuits Simulation Practical	Electrical Circuits Simulation Practical (VI Semester) (M Scheme)
	6.	Micro Controller Practical	Micro Controller Practical(M Scheme)
	7.	Elective Practical-I	
		Control of Electrical Machines Practical	Control of Electrical Machines Practical(M Scheme)
		Programmable Logic Controller Practical	Programmable Logic Controller Practical(M Scheme)
		Electrical Machine Design Practical	Electrical Machine Design Practical(M Scheme)
<b>VI</b>	1.	Power System – II	Distribution and Utilization(M Scheme)
	2.	Electrical Estimation and Energy Auditing	Electrical Estimation and Energy Auditing (V Semester) (M Scheme)
	3.	Elective Theory II	
		Power Electronics	Power Electronics(M Scheme)
		Bio-Medical Instrumentation	Bio-Medical Instrumentation(M Scheme)
		Computer Hardware and Networks @	Computer Hardware and Networks(M Scheme)
	4.	Wiring and Winding Practical	Wiring and Winding Practical(M Scheme)
	5.	Computer Aided Electrical Drawing	Computer Aided Electrical Drawing Practical( V Semester) (M Scheme)
	6.	Elective Practical II	
		Power Electronics Practical	Power Electronics Practical(M Scheme)
		Bio – Medical Instrumentation Practical	Bio-Medical Instrumentation Practical(M Scheme)
		Computer Hardware and Networks Practical @	Computer Hardware and Networks Practical(M Scheme)
	7.	<b>Project Work</b>	Project Work( M Scheme)

# COMPUTER ENGINEERING

## ‘C’ SCHEME (1988-1993)

SEM	SL. NO.	Revised Scheme(RS) [C Scheme] ( I year Admission 1987-88)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Applied Statistics	4052330- CProgramming and Data Structure (N Scheme)
	2.	Electronic Circuits	4052310- BasicsofElectrical&ElectronicsEngineering (N Scheme)
	3.	Digital Electronics	<b>34052</b> - Microcontroller ofV ECE
	4.	Programming in COBOL	COBOL Programming ( <b>G Scheme</b> )
	5.	Electronic Circuits Lab	4052340-Electrical&Electronics EngineeringPractical (N Scheme)
	6.	COBOL Programming Lab	COBOL Programming Lab( <b>C Scheme</b> )
IV	1.	FORTRAN Programming & Numerical Methods	Computer Architecture ( M Scheme)
	2.	Principles of Microprocessors	<b>34052</b> - Microcontroller ofV ECE( M Scheme)
	3.	Computer Organisation	Computer Architecture( M Scheme)
	4.	Computers in Business	Organisational Study & Entrepreneurship ( <b>D Scheme</b> )
	5.	FORTRAN Programming Lab	FORTRAN Programming Lab ( <b>C Scheme</b> )
	6.	Microprocessor Lab-I	Microprocessor Lab ( <b>G Scheme</b> )
V	1.	Microprocessor & Applications	<b>34052</b> Microcontroller ofV ECE( M Scheme)
	2.	System Analysis & Design	Organisational Study & Entrepreneurship ( <b>D Scheme</b> )
	3.	Office Automation & Word Processing	4052330- CProgramming and Data Structure (N Scheme)
	4.	Computer Graphics	Computer Networks & Security( M Scheme)
	5.	Microprocessor Application Lab	Microprocessor Based System Design Lab ( <b>D Scheme</b> )
	6.	Graphics &Office Automation Lab	Graphics &Office Automation Lab ( <b>C Scheme</b> )
VI	1.	Computer Installation & Maintenance	Computer Hardware & Servicing( M Scheme)
	2.	System Software	Operating systems ( M Scheme)
	3.	Computer Peripherals & Interfacing	<b>34052</b> Microcontroller ofV ECE( M Scheme)
	4.	Elective Theory	
		1.C Language programming	Data Structures using C( M Scheme)
		2.Operation Research	Operation Research ( <b>C Scheme</b> )
		3.Operating Systems	4052320-Operating Systems (N Scheme)
		4.Programming in PASCAL	4052320-Operating Systems (N Scheme)
	5.	Database & Spreadsheet Lab	Database & Spreadsheet Lab( <b>C Scheme</b> )
	6.	Project Work	Project Work( M Scheme)

### ‘D’ SCHEME (1992-2000)

SEM	SL. NO.	New Scheme [D Scheme] ( I year Admission 1991-92)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Introduction to Computer & BASIC Programming	4052330- CProgramming and Data Structure (N Scheme)
	2.	Electronic Devices & Circuits	4052310- BasicsofElectrical&ElectronicsEngineering (N Scheme)
	3.	Digital Electronics & Microprocessor	<b>34052</b> Microcontroller ofV ECE( M Scheme)
	4.	Basic Programming Lab	Basic Programming Lab( <b>D Scheme</b> )
	5.	Electronic Devices & Circuits Lab	4052340-Electrical&Electronics EngineeringPractical (N Scheme)
	6.	Digital Electronics & Microprocessor Lab	Microprocessor Lab ( <b>G Scheme</b> )
IV	1.	Microprocessor Interfacing Techniques	<b>34052</b> Microcontroller ofV ECE( M Scheme)
	2.	Assembly Language Programming	Computer Architecture ( M Scheme)
	3.	System Software	4052320-Operating Systems (N Scheme)
	4.	Microprocessor Interfacing Techniques Lab	Microprocessors Lab( <b>G Scheme</b> )
	5.	Assembly Language Programming Lab	Assembly Language Programming Lab( <b>D Scheme</b> )
	6.	System Software Lab	Software Lab ( <b>J Scheme</b> )
V	1.	Computer Architecture	Computer Architecture ( M Scheme)
	2.	Microprocessor Based System Design	<b>34052</b> Microcontroller ofV ECE( M Scheme)
	3.	C Programming	Data Structures using C ( M Scheme)
	4.	Microprocessor Based System Design Lab	Microprocessor Based System Design Lab ( <b>D Scheme</b> )
	5.	C Programming Lab	Data Structures using C Practical( M Scheme)
	6.	PC Packages Lab	Software Lab ( <b>J Scheme</b> )
VI	1.	Computer Installation & Servicing	Computer Hardware and Servicing( M Scheme)
	2.	Computer Communication & Graphics	Computer Networks and Security( M Scheme)
	3.	Organisational Study & Entrepreneurship	Organisational Study & Entrepreneurship ( <b>D Scheme</b> )
	4.	Elective Theory	
		1.COBOl Programming	COBOl Programming ( <b>G Scheme</b> )
		2.C++ Programming	4052330- CProgramming and Data Structure (N Scheme)
		3.UNIX Programming	4052320-Operating Systems (N Scheme)
	5.	Hardware Servicing Lab	Computer Servicingand Network Practical( M Scheme)
	6.	Project Work	Project Work( M Scheme)

### ‘G’ SCHEME (1999- 2004)

SEM	SL. NO.	G Scheme ( I year Admission 1998-99)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Electronic Devices & Digital Electronics	4052310- Basics of Electrical & Electronics Engineering (N Scheme)
	2.	Data Structures using C	Data Structures using C (M Scheme)
	3.	Operating systems	4052320-Operating Systems (N Scheme)
	4.	Electronic Devices & Digital Electronics Lab	4052340-Electrical & Electronics Engineering Practical (N Scheme)
	5.	Data Structures using C Lab	Data Structures using C Practical (M Scheme)
	6.	Operating systems Lab	Software Lab ( J Scheme)
IV	1.	Microprocessors	<b>34052</b> Microcontroller of V ECE (M Scheme)
	2.	C++ Programming	4052330- C Programming and Data Structure (N Scheme)
	3.	Computer Architecture	Computer Architecture (M Scheme)
	4.	Microprocessors Lab	Microprocessors Lab (G Scheme)
	5.	C++ Programming Lab	C++ Programming Lab (J Scheme)
	6.	PC Packages Lab	Software Lab ( J Scheme)
V	1.	Networks-I	Computer Networks and Security (M Scheme)
	2.	Relational Database Management Systems	Relational Database and Management Systems (M Scheme)
	3.	Elective Theory-I	
		1. Visual Basic Programming	Visual Basic Programming (G Scheme)
		2. Visual C++ Programming	Visual C++ Programming (J Scheme)
		3. Power Builder	Power Builder (G Scheme)
	4.	Networks-I Lab	Computer Servicing and Network Practical (M Scheme)
	5.	Relational Database Management Systems Lab	Relational Database and Management Systems Practical (M Scheme)
	6.	Elective Lab I	Elective Lab I ( as per theory scheme)
VI	1.	Computer Installation & Servicing	Computer Hardware and Servicing (M Scheme)
	2.	Networks-II	Computer Networks and Security (M Scheme)
	3.	Elective Theory-II	
		1. Java Programming	Object Oriented Programming with Java (M Scheme)
		2. Desktop Publishing	Desktop Publishing (G Scheme)
		3. COBOL Programming	COBOL Programming (G Scheme)
	4.	Hardware Servicing Lab	Computer Servicing and Network Practical (M Scheme)
	5.	Elective Lab II	Elective Lab II ( as per theory scheme)
	6.	Project Work & Entrepreneurship	Project Work (M Scheme)

### ‘J’ SCHEME (2003-2008)

SEM	SL. NO.	J Scheme ( I year Admission 2002-03)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Electronics Circuits & Microprocessor	4052310-Basics of Electrical & Electronics Engineering (N Scheme)
	2.	C++ Programming	4052330- C Programming and Data Structure (N Scheme)
	3.	System Programming	4052320-Operating Systems (N Scheme)
	4.	Electronics Circuits & Microprocessor Lab	4052340-Electrical&Electronics Engineering Practical (N Scheme)
	5.	C++ Programming Lab	C++ Programming Lab (J Scheme)
	6.	Software Lab	Software Lab (J Scheme)
IV	1.	Assembly Language Programming	Computer Architecture (M Scheme)
	2.	Data Structures & Algorithm	Data Structures using C (M Scheme)
	3.	Computer Architecture	Computer Architecture (M Scheme)
	4.	Assembly Language Programming Lab	Assembly Language Programming Lab (J Scheme)
	5.	Data Structures Lab (Implementation in C )	Data Structures using C Practical (M Scheme)
	6.	Visual Basic Programming Lab	Visual Basic Programming Lab( J Scheme)
V	1.	Networks & Administration	Computer Networks and Security(M Scheme)
	2.	Relational Database Management Systems	Relational Database and Management Systems (M Scheme)
	3.	Elective Theory -I	
		1.Java Programming	Object Oriented Programming with Java (M Scheme)
		2.Visual C++ Programming	Visual C++ Programming(J Scheme)
		3. Computer Graphics	Computer Graphics (J Scheme)
	4.	Networks & Administration Lab	Computer Servicing and Network Practical(M Scheme)
	5.	Relational Database Management Systems Lab	Relational Database and Management Systems Practical(M Scheme)
	6.	Elective Lab I	Elective Lab I ( as per theory scheme)
VI	1.	Computer Installation & Servicing	Computer Hardware and Servicing (M Scheme)
	2.	Principles of Modern Communication System	Principles of Modern Communication System (J Scheme)
	3.	Elective Theory-II	
		1.Web Technology	Web Programming (M Scheme)
		2.Multimedia	Multimedia Systems(M Scheme)
		3.Linux Programming & Administration	4052350- Linux Practical (N Scheme)



	4.	Computer Installation & Servicing Lab	Computer Servicing and Network Practical(M Scheme)
	5.	Elective Lab II	Elective Lab II ( as per theory scheme)
	6.	Project Work &Entrepreneurship	Project Work(M Scheme)

### ‘K’ SCHEME (2007-2011)

SEM	SL. NO.	K Scheme ( I year Admission 2007-08)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Basics of Electrical and Electronics Engineering	4052310- BasicsofElectrical&ElectronicsEngineering (N Scheme)
	2.	C and Data Structures	Data Structure Using C (M Scheme)
	3.	Operating systems	4052320-Operating Systems (N Scheme)
	4.	Electrical and Electronics Laboratory	4052340-Electrical&Electronics EngineeringPractical (N Scheme)
	5.	C and Data Structures Laboratory	Data Structure Using C Practical(M Scheme)
	6.	Operating systems Laboratory	4052350- Linux Practical (N Scheme)
IV	1.	Computer Architecture and Assembly Language Programming	Computer Architecture (M Scheme)
	2.	Internet Concepts and Web Designing	Web Programming (M Scheme)
	3.	Object Oriented Programming with Java	Object Oriented Programming with Java(M Scheme)
	4.	English Communication Laboratory	Life and Employability Skills Practical(M Scheme)
	5.	Web Designing Laboratory	Web Programming Practical (M Scheme)
	6.	Java Programming Laboratory	Java Programming Practical (M Scheme)
V	1.	Computer Networks and Security	Computer Networks and Security(M Scheme)
	2.	Relational Data Base Management Systems	Relational Database and Management Systems(M Scheme)
	3.	.Net Programming(E-I)	Component Based Technology (M Scheme)
	4.	Embedded Systems(E-I)	Embedded Systems(E-I) (K Scheme)
	5.	Computer Networks and Security Laboratory	Computer Servicing and Network Practical (M Scheme)
	6.	Relational Data Base Management System Laboratory	Relational Database and Management Systems Practical (M Scheme)
	7.	.Net Programming Laboratory	Component Based Technology Practical (M Scheme)

	8.	Embedded Systems Laboratory	Embedded Systems Laboratory (K Scheme)
<b>VI</b>	1.	PC Hardware and Servicing	Computer Hardware and Servicing(M Scheme)
	2.	Mobile Computing	Mobile Computing(M Scheme)
	3.	Software Engineering(E-II)	Software Engineering(M Scheme)
	4.	Multimedia Systems(E-II)	Multimedia Systems(M Scheme)
	5.	PC Hardware and Servicing Laboratory	Computer Servicing and Network Practical(M Scheme)
	6.	E-Publishing Laboratory	E-Publishing Laboratory( K Scheme)
	7.	Multimedia Systems Laboratory	Multimedia Systems Practical(M Scheme)
	8.	Project Work and Entrepreneurship	Project work (M Scheme)

### ‘L’ SCHEME (2011- 2015)

SEM	Sl. No	L Scheme ( I year Admission 2011-2012)	Relevant papers in which the candidate has to write in October 2021 Board Examinations. ‘N’ Scheme
III	1.	Basics of Electrical & Electronics Engineering	4052310- BasicsofElectrical&ElectronicsEngineering (N Scheme)
	2.	Operating Systems	4052320-Operating Systems (N Scheme)
	3.	C Programming	4052330- CProgramming and Data Structure (N Scheme)
	4.	Electrical &Electronics Practical	4052340-Electrical&Electronics EngineeringPractical (N Scheme)
	5.	Linux Practical	4052350- Linux Practical (N Scheme)
	6.	C Programming Practical	4052360-CProgramming and Data StructurePractical( N Scheme)
	7.	Computer Applications Practical**	40002-ComputerApplications Practical ( N Scheme)
IV	1.	Computer Architecture	COMPUTER ARCHITECTURE(M Scheme)
	2.	Computer Networks and Security	COMPUTER NETWORK AND SECURITY(M Scheme)
	3.	Object Oriented Programming with Java	OOPS WITH JAVA(M Scheme)
	4.	Data Structures using C	DATA STRUCTURES USING C(M Scheme)
	5.	Java Programming Practical	JAVA PROGRAMMING PRACTICAL(M Scheme)
	6.	Data Structures using C Practical	DATA STRUCTURES USING C PRACTICAL(M Scheme)
	7.	Communication and Life Skills Practical**	Life and EmployabilitySkill Practical(M Scheme)
V	1.	Web Programming	WEB PROGRAMMING(M Scheme)
	2.	Relational Database and Management Systems	RELATIONAL DATABASE MANAGEMENT SYSTEMS(M Scheme)
	3.	.NET Programming	COMPONENT BASED PROGRAMMING (M Scheme)
	4.	Elective Theory-I	

		Concepts of Advanced Computing	CLOUD COMPUTING(M Scheme)
		Software Engineering	SOFTWARE ENGINEERING(M Scheme)
	5.	Web Programming Practical	WEB PROGRAMMING PRACTICAL(M Scheme)
	6.	Relational Database and Management Systems Practical	RELATIONAL DATABASE MANAGEMENT SYSTEMS PRACTICAL(M Scheme)
	7.	.NET Programming Practical	COMPONENT BASED PROGRAMMING PRACTICAL(M Scheme)
<b>VI</b>	1.	Computer Hardware and Servicing	COMPUTER HARDWARE AND SERVICING(M Scheme)
	2.	Mobile Computing	MOBILE COMPUTING(M Scheme)
	3.	Elective Theory II	
		Multimedia Systems	MULTIMEDIA SYSTEMS(M Scheme)
		Open Source Software	OPEN SOURCE SOFTWARE(M Scheme)
	4.	Computer Servicing and Network Practical	COMPUTER SERVICING AND NETWORK PRACTICAL(M Scheme)
	5.	System Administration Practical	System Administration Practical ( L Scheme)
	6.	Elective Practical II	
		Multimedia Systems Practical	MULTIMEDIA SYSTEMS PRACTICAL ( M Scheme)
		Open Source Software Practical	OPEN SOURCE SOFTWARE PRACTICAL ( M Scheme)
	7.	<b>Project Work</b>	Project Work( M Scheme)

# INFORMATION TECHNOLOGY

## ‘G’ SCHEME (1999-2004)

SEM	SL. NO.	G Scheme ( I year Admission 1998-99)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Electronic Devices & Digital Electronics	4052310- BasicsofElectrical&ElectronicsEngineering (N Scheme)
	2.	Management Information System	Management Information System
	3.	Operating systems	4046320-Operating Systems and Computer architecture (N Scheme)
	4.	Electronic Devices & Digital Electronics Lab	Electrical & Electronics Practical
	5.	Operating systems Lab	Software Lab ( J Scheme)
	6.	PC Packages Lab	Software Lab ( J Scheme)
IV	1.	Networks	Computer Hardware and Networks
	2.	Database Management Systems	Database Management Systems ( G Scheme)
	3.	C++ Programming	C Programming
	4.	Networks Lab	Computer Hardware and Networks Practical
	5.	Database Management Systems Lab	Database Management Systems Lab (G Scheme)
	6.	C++ Programming Lab	C++ Programming Lab (J Scheme)
V	1.	Relational Database Management Systems	Relational Database and Management Systems
	2.	System Analysis & Design	System Analysis & Design (J Scheme)
	3.	Elective Theory-I	
		1. Visual Basic Programming	Visual Basic Programming(G Scheme)
		2. Visual C++ Programming	Visual C++ Programming(J Scheme)
		3. Power Builder	Power Builder(G Scheme)
	4.	Relational Database Management Systems Lab	Relational Database and Management Systems Practical
	5.	Desktop Publishing	Desktop Publishing(G Scheme)
	6.	Elective Lab I	Elective Lab I ( as per theory scheme)
VI	1.	Software Engineering	<b>35272</b> – Software Engineering
	2.	Internet Programming	Internet Programming (G Scheme)
	3.	Elective Theory-II	
		1. Java Programming	Object Oriented Programming with Java
		2. COBOL Programming	COBOL Programming (G Scheme)
		3. Computer Installation & Servicing	<b>35261</b> Computer Hardware and Servicing of <b>VI Computer Engineering</b>
	4.	Internet Programming Lab	Web Programming Practical
	5.	Elective Lab II	Elective Lab II ( as per theory scheme)
	6.	Project Work & Entrepreneurship	Project Work

### ‘J’ SCHEME (2003-2008)

SEM	SL. NO.	J Scheme ( I year Admission 2002-03)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Electronics Circuits & Microprocessor	4052310-Basics of Electrical & Electronics Engineering (N Scheme)
	2.	C++ Programming	C Programming
	3.	System Programming	4046320-Operating Systems and Computer architecture (N Scheme)
	4.	Electronics Circuits & Microprocessor Lab	Electrical & Electronics Practical
	5.	C++ Programming Lab	C++ Programming Lab (J Scheme)
	6.	Software Lab	Software Lab (J Scheme)
IV	1.	Computer Graphics	Computer Graphics (J Scheme)
	2.	Data Structures & Algorithm	Data Structures using C
	3.	Management Information System	Management Information Systems
	4.	Computer Graphics Lab	Computer Graphics Lab (J Scheme)
	5.	Data Structures Lab (Implementation in C )	Data Structures using C Practical
	6.	Visual Basic Programming Lab	Visual Basic Programming Lab (J Scheme)
V	1.	Java Programming	Object Oriented Programming with Java
	2.	Relational Database Management Systems	Relational Database and Management Systems
	3.	Elective Theory-I	
		1.Linux Programming & Administration	Linux Practical
		2.Visual C++ Programming	Visual C++ Programming(J Scheme)
		3.Multimedia	Multimedia Systems
	4.	Java Programming Lab	Java Programming Practical
	5.	Relational Database Management Systems Lab	Relational Database and Management Systems practical
	6.	Elective Lab I	Elective Lab I ( as per theory scheme)
VI	1.	Web Technology	Web Programming
	2.	Networks & Administration	Computer Hardware and Networks
	3.	Elective Theory-II	
		1.System Analysis & Design	System Analysis & Design (J Scheme)
		2.Principles of Modern Communication System	Principles of Modern Communication System (J Scheme)
		3.Principles of Programming Languages	Principles of Programming Languages (J Scheme)
	4.	Web Technology Lab	Web Programming Practical
	5.	Networks & Administration Lab	Computer Hardware and Networks Practical
	6.	Project Work & Entrepreneurship	Project Work

### ‘K’ SCHEME (2007-2011)

SEM	SL. NO.	K Scheme ( I year Admission 2007-08)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Basics of Electrical and Electronics Engineering	4052310- BasicsofElectrical&ElectronicsEngineering (N Scheme)
	2.	C andData Structures	Data Structures using C
	3.	Operating systems	4046320-Operating Systems and Computer architecture (N Scheme)
	4.	Electrical andElectronics Laboratory	Electrical & Electronics Practical
	5.	C andData Structures Laboratory	Data Structures using C Practical
	6.	Operating systems Laboratory	Linux Practical
IV	1.	Management Information Systems	Management Information Systems
	2.	Internet conceptsandWeb Designing	Web Programming
	3.	Object Oriented Programmingwith Java	Object Oriented Programmingwith Java
	4.	EnglishCommunication Laboratory	Life and Employability Skill Practical
	5.	WebDesigning Laboratory	Web Programming Practical
	6.	Java Programming Laboratory	Java Programming Practical
V	1.	Open SourceSoftwares	<b>No alternative</b>
	2.	RelationalData Base Management Systems	Relational Database and Management Systems
	3.	Elective - I	
		1. .Net Programming	Component Based Technology
		2. ComputerNetworksand Security	<b>35242</b> Computer Networks and Security of <b>IV Semester Computer Engg</b>
	4.	Open SourceSoftwares Laboratory	<b>No alternative</b>
	5.	Relational Data Base Management System Laboratory	Relational Database and Management System Practical
	6.	Elective-I Practical	
		1. .Net Programming Laboratory	Component Based Technology Practical
		2. ComputerNetworksand Security Laboratory	Computer Hardware and Networks Practical
VI	1.	Multimedia Systems	Multimedia Systems
	2.	Software Engineering	Software Engineering
	3.	Elective - II	
		Financial Accounting and Management	<b>No alternative</b>
		Advanced Java Programming	Advanced Java Programming



	4.	Multimedia Systems Laboratory	Multimedia Systems Practical
	5.	Elective –II Practical	
		Accounting Laboratory	<b>No alternative</b>
		Advanced Java Programming Laboratory	Advanced Java Programming Practical
	6.	Project Workand Entrepreneurship	Project Work

### ‘L’ SCHEME (2011- 2015)

SEM	Sl.No	L Scheme ( I year Admission 2011-2012)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Basics of Electrical & Electronics Engineering*	4052310- Basics of Electrical & Electronics Engineering (N Scheme)
	2.	Operating Systems	4046320- Operating Systems and Computer architecture (N Scheme)
	3.	C - Programming*	4052330- C Programming and Data Structure (N Scheme)
	4.	Electrical & Electronics Practical*	4052340- Electrical & Electronics Engineering Practical (N Scheme)
	5.	Linux Practical*	4052350- Linux Practical (N Scheme)
	6.	C - Programming Practical*	4052360- C Programming and Data Structure Practical (N Scheme)
	7.	Computer Applications Practical**	40002- Computer Applications Practical (N Scheme)
IV	1.	Management Information Systems	Management Information Systems (M Scheme)
	2.	Information Security	Information Security (M Scheme)
	3.	Object Oriented Programming with Java *	Object Oriented Programming with Java (M Scheme)
	4.	Data Structures using C*	Data Structures using C (M Scheme)
	5.	Java Programming Practical*	Java Programming Practical (M Scheme)
	6.	Data Structures using C Practical*	Data Structures using C Practical (M Scheme)
	7.	Communication and Life Skill Practical**	Life and Employability Skills Practical (M Scheme)
V	1.	Web Programming*	Web Programming (M Scheme)
	2.	Relational Database and Management Systems*	Relational Database and Management Systems (M Scheme)
	3.	.Net Programming*	Component Based Technology (M Scheme)
	4.	Elective Theory-I	
		a. Concepts of Advanced Computing*	Cloud Computing (M Scheme)
		b. Software Engineering*	Software Engineering (M Scheme)
	5.	Web Programming Practical*	Web Programming Practical (M Scheme)
	6.	Relational Database and Management Systems Practical*	Relational Database and Management Systems Practical (M Scheme)
	7.	.Net Programming Practical	Component Based Technology Practical (M Scheme)
VI	1.	Advanced Java Programming	Advanced Java Programming (M Scheme)
	2.	XML Programming	XML Programming (L Scheme)
	3.	Elective Theory II	
		Multimedia Systems	Multimedia System (M Scheme)
		Computer Hardware and Networks	Computer Hardware and Networks (M Scheme)
	4.	Advanced Java and XML	Advanced Java Programming Practical (M Scheme)

		Programming Practical	Scheme)
	5.	System Administration Practical	System Administration Practical(L Scheme)
	6.	Elective Practical II	
		a. Multimedia Systems Practical	MultimediaSystemsPractical(M Scheme)
		b. Computer Hardware and Networks Practical	Computer Hardware and Networks Practical(M Scheme)
	7.	Project Work	<b>Project Work( M Scheme)</b>

## AUTOMOBILE ENGINEERING

### ‘G’ SCHEME (1999 -2004)

SEM	SL. NO.	G Scheme ( I year Admission 1998-99)	Relevant papers in which the candidate has to write in October 2021 Board Examinations
III	1.	Mechanics of Materials	4020310- Strength of Materials * ( N Scheme)
	2.	Manufacturing Processes	4020320-Manufacturing Technology -I* (N Scheme)
	3.	Fluid Mechanics & Fluid Power	Fluid Mechanics & Fluid Power * (M Scheme)
	4.	Machine Drawing I	Machine Drawing**(M Scheme)
	5.	Mechanics of Materials & Fluid Mechanics Lab	Strength of Materials and Fluid Mechanics Practical* (M Scheme)
	6.	Workshop I (Smithy, Foundry & Welding)	4020360- Manufacturing Technology - I Practical (N Scheme)
IV	1.	Applied Thermodynamics	Thermal Engineering (M Scheme)
	2.	Machine Shop Technology	Special Machines* (M Scheme)
	3.	Electrical & Electronics Engineering	Electrical Drives & Control* (M Scheme)
	4.	AutoCAD Lab	4020350 - Machine Drawing and CAD Practical(N Scheme)
	5.	Electrical & Electronics Engineering Lab	Electrical Drives & Control Practical* (M Scheme)
	6.	Workshop II (Lathe & Metrology)	Workshop II(Turning, Drilling & Shaping) * [K Scheme]
V	1.	Automobile Engine	Automobile Engines (M Scheme)
	2.	Chassis & Transimission	Automobile Chassis& transmission(M Scheme)
	3.	Body Building Technology	Automobile Body Building Engineering (M Scheme)
	4.	Automobile Engines Lab	Thermal Engineering & IC Engines Practical (M Scheme)
	5.	Automobile, Chassis Transmission, Electrical Equipment Lab	Automobile Chassis and Transmission Practical (M Scheme)
	6.	Work shop - III (Spl. Machines)	Special Machines Practical* (M Scheme)
VI	1.	Industrial Management & Road Transport Organisation	Industrial Management & Road Transport Organisation(M Scheme)
	2.	CAD/CAM	Computer Aided Design and Manufacturing * (M Scheme)
	3.	Automobile Electrical Equipments	Autotronics(M Scheme)
	4.	CAD/CAM Lab	Computer Aided Design and Manufacturing Practical *(M Scheme)
	5.	Automobile Workshop	Automobile Workshop Practical(M Scheme)
	6.	Project Work	Project Work(M Scheme)

**Note: 1. \* - Common with Mechanical Engineering**

### ‘J’ SCHEME (2003- 2008)

SEM	SL. NO.	J Scheme ( I year Admission 2002-03)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Mechanics of Materials	4020310- Strength of Materials * ( N Scheme)
	2.	Manufacturing Processes	4020320-Manufacturing Technology -I* (N Scheme)
	3.	Fluid Mechanics & Fluid Power	Fluid Mechanics & Fluid Power *
	4.	Machine Drawing	Machine Drawing**(M Scheme)
	5.	Mechanics of Materials & Fluid Mechanics Lab	Strength of Materials and Fluid Mechanics Practical*
	6.	Workshop I (Smithy, Foundry &Welding)	4020360- Manufacturing Technology - I Practical (N Scheme)
IV	1.	Applied Thermodynamics	Thermal Engineering
	2.	Machine Shop Technology	Special Machines*
	3.	Electrical & Electronics Engineering	Electrical Drives & Control*
	4.	Thermodynamics Lab	Thermal and Automobile Engineering Practical*
	5.	Electrical & Electronics Engineering Lab	Electrical Drives & Control Practical*
	6.	Workshop II (Lathe & Metrology)	Workshop II(Turning, Drilling & Shaping) * [ K Scheme]
V	1.	Automobile Engines	Automobile Engines
	2.	Automobile Chassis & transmission	Automobile Chassis & Transmission
	3.	Automobile Electrical Equipments	Autotronics
	4.	Automobile Engines Lab	Thermal Engineering & IC Engines Practical
	5.	Automobile chassis trans & Elect. Equi. Lab	Automobile Chassis andTransmission Practical
	6.	Work Shop - III (Special Machines)	Special Machines Practical*
VI	1.	Industrial Management & Road Transport Org.	Industrial management and Road Transport Organization
	2.	CAD / CAM	Computer Aided Design and Manufacturing*
	3.	Body building Technology	Automobile Body Building Engineering
	4.	CAD / CAM Lab	Computer Aided Design and Manufacturing Practical*
	5.	Automobile Workshop	Automobile Workshop Practical
	6.	Project work, Entrepreneurship& Personal Skills	Project work

**Note: 1. \* - Common with Mechanical Engineering**

### ‘K’ SCHEME (2007- 2011)

SEM	SL. NO.	K Scheme ( I year Admission 2007-08)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Solid Mechanics and Fluid power Systems	4020310- Strength of Materials * ( N Scheme)
	2.	Manufacturing Process*	4020320-Manufacturing Technology -I* (N Scheme)
	3.	Automotive engines	Automobile Engines (M Scheme)
	4.	Machine Drawing - CAD	Machine Drawing**(M Scheme)
	5.	Solid Mechanics and Fluid power systems lab.	Strength of Materials and Fluid Mechanics Practical* (M Scheme)
	6.	Work shop – I (Smithy, Foundry &Welding)*	4020360- Manufacturing Technology - I Practical (N Scheme)
IV	1.	Applied Thermodynamics*	Thermal Engineering (M Scheme)
	2.	Machine shop Technology*	Special Machines* (M Scheme)
	3.	Automotive Electrical & Electronics Systems	Autotronics (M Scheme)
	4.	Automotive Engines laboratory	Thermal Engineering & IC Engines Practical (M Scheme)
	5.	Autotronics Laboratory	Autotronics Practical (M Scheme)
	6.	Workshop II (Turning, Drilling andShaping)*	<b>No alternative</b>
V	1.	Automotive Chassis & Transmission	Automobile Chassis and Transmission (M Scheme)
	2.	Vehicle Body Engineering	Automobile Body Building Engineering (M Scheme)
	3.	Industrial management and Road Transport Organization	Industrial Management and Road Transport Organisation (M Scheme)
		English Communication Practical**	Life & Employability Skills Practical (M Scheme)
		Automotive Chassis & Transmission Laboratory	Automobile Chassis andTransmission Practical (M Scheme)
	4.	Automobile Workshop	Automobile Workshop Practical(M Scheme)
VI	1.	Automotive Maintenance and Pollution Control	Automobile Engines (M Scheme)
	2.	Computer Aided Design and Manufacturing *	Computer Aided Design and Manufacturing* (M Scheme)
	3.	<b>Elective Theory</b>	
		1. Two & Three wheelers	Two andThree Wheeler Technology (M

		Technology	Scheme)
		2. Tractor and Farm Equipments	Tractor and Farm Equipments (M Scheme)
	4.	Computer Aided design and Manufacturing Practical *	Computer Aided Design and Manufacturing Practical * (M Scheme)
	5.	<b>Elective Practical</b>	
		1. Two & Three wheelers Technology Practical	Two andThree Wheeler Technology Practical (M Scheme)
		2. Tractor and Farm EquipmentsPractical	Tractor and Farm Equipments Practical (M Scheme)
	6.	Project work, Entrepreneurship, Environment and Disaster management	Project Work (M Scheme)

**Note: 1. \* - Common with Mechanical Engineering**

### ‘L’ SCHEME (2011- 2015)

SEM	Sl. No	L Scheme ( I year Admission 2011-2012)	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
III	1.	Strength of Materials *	4020310 -Strength of Materials( NScheme)
	2.	Automobile Engines	Automobile Engines (M Scheme)
	3.	Automobile Chassis and Transmission	Automobile Chassis and Transmission (M Scheme)
	4.	Machine Drawing	Machine Drawing**(M Scheme)
	5.	Mechanical Testing & Quality Control Practical *	Strength of Materials and Metrology Practical (M Scheme)
	6.	Automobile Chassis and Transmission Practical	Automobile Chassis and Transmission Practical (M Scheme)
	7.	Computer Application Practical *	4020350 - Machine Drawing and CAD Practical(N Scheme)
IV	1.	Manufacturing Technology – I *	4020320-Manufacturing Technology – I( M Scheme)
	2.	Heat Power Engineering	Thermal Engineering (M Scheme)
	3.	Industrial Automation	Industrial Automation (M Scheme)
	4.	Computer Aided Machine Drawing Practical*	4020350 - Machine Drawing and CAD Practical(N Scheme)
	5.	Manufacturing Technology – I Practical*	4020320-Manufacturing Technology -I* (N Scheme)
	6.	Heat Power Engineering Practical	Thermal Engineering and IC Engines Practical (M Scheme)
	7.	Industrial Automation Practical	Process Automation Practical** (M Scheme)
V	1.	Industrial Management and Road Transport Organisation	Industrial Management and Road Transport organization ( M Scheme)
	2.	Manufacturing Technology – II *	Special Machines (M Scheme)
	3.	Autotronics	Autotronics (M Scheme)
	4.	Elective Theory-I	
		Alternate fuels and Energy systems	Alternative fuels and Energy Systems (M Scheme)
		Automobile Maintenance	Automobile Maintenance & Emission Control (M Scheme)
		Industrial Robotics	No Equivalent



	5.	Autotronics Practical	Autotronics Practical (M Scheme)
	6.	Manufacturing Technology–II Practical *	Special Machines Practical**(M Scheme)
	7.	Communication and Life Skills Practical **	Life and Employability Skills Practical\$ (M Scheme)
VI	1.	BodyBuilding Engineering.	Automobile Body Building Engineering (M Scheme)
	2.	Computer Integrated Manufacturing	Computer Aided Design and Manufacturing**(M Scheme)
	3.	Elective Theory II	
		Two and Three Wheeler Technology	Two and Three Wheeler Technology (M Scheme)
		Tractor and Farm Equipments	Tractor and Farm Equipments (M Scheme)
		Aeronautics Engineering	No Equivalent
	4.	Computer Integrated Manufacturing Practical *	Computer Aided Design and Manufacturing Practical** (M Scheme)
	5.	Automobile Workshop Practical	Automobile Workshop Practical (M Scheme)
	6.	Elective Practical II	
		Two and Three Wheeler Technology Practical	Two and Three Wheeler Technology Practical (M Scheme)
		Tractor and Farm Equipments Practical	Tractor and Farm Equipments Practical (M Scheme)
		Aeronautics Engineering Practical	No Equivalent
	7.	Project Work	Project Work

#### **AUTOMOBILE ENGINEERING -1021**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Automobile Technology III	32143 Automobile Engines ( M Scheme)

#### **TOOL ENGINEERING -1022**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Advanced Production Technology	32232 – Manufacturing Technology (M Scheme)

2.	G	Engineering Metrology	4022330 – Engineering Metrology ( N Scheme)
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#### REFRIGERATION & AIRCONDITIONING-1024

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Refrigeration and Air-Conditioning Drawing	<b>No alternate Paper</b>
2.	G	Refrigeration I	32451 – Refrigeration ( M Scheme)
3.	G	Air Conditioning I	32452 – Air conditioning ( M Scheme)

**PRODUCTION ENGINEERING-1025**

\* common with V Mechanical Engineering

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	J	Metrology & Statistical Quality Control (2553)	Total Quality Management (32071)* (common with V Mechanical Engg) (M Scheme) ( M Scheme)
2.	J	Advanced Manufacturing Systems (4763)	Computer Aided Design and Manufacturing(32062) ( M Scheme)
3.	K	Thermodynamics & Automobile Technology (12541)	Thermal Engineering (32141) (common with Automobile Engg) ( M Scheme)
4.	K	Metal Forming Process (12551)	Metal Forming Technology of VI Mechanical (Foundry) [39164] (M Scheme)

**METALLURGY-1026**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Fuels, Furnaces And Refractories	4026330 – Allied Engineering ( N Scheme)

**MECHANICAL ENGINEERING (DESIGN AND DRAFTING) -1029**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	G	Mechanics of Machines	4020310 – Strength of Materials of III Mech (N Scheme)
2.	G	Basics of Machine Design	32051 - Design of Machine Elements of V Mech ( M Scheme)
3.	G	Design of Jigs Fixtures Gauges and Press Tool	32042 – Special Machines of V Mech ( M Scheme)
4.	G	Machine Design and Drawing (WP)	4020350 – MACHINE DRAWING AND CAD PRACTICALPractical of III Mech ( N Scheme)
5.	G	Design of Transmission System	32051 - Design of Machine Elements of V Mech ( M Scheme)
6.	G	Design of Transmission System (WP)	4020350 – MACHINE DRAWING AND CAD PRACTICALPractical of III Mech ( N Scheme)

**MECHANICAL ENGINEERING (TOOL AND DIE) -1220**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	G	Engineering Metrology	4022330 – Engineering Metrology (N Scheme)
2.	G	TQM	32071 – Total Quality Management of V Mechanical ( M Scheme)
3.	J	Theory of Metal Cutting and Cutting Tools	32243 – Tool Room Special Machines (M Scheme)

**MACHINE TOOL MAINTENANCE AND REPAIRS (SANDWICH) -2103**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	G	Lubrication Principles and Practice	39264 – Machine Tool Reconditioning and Overhauling (M Scheme)
2.	G	Hydraulics Pneumatics Fluidics and Automation	4922310 – Solid Mechanics and Fluid Mechanics ( N Scheme)
3.	G	Metrology and Instrumentation	39253 – Engineering Metrology ( M Scheme)
4.	G	Industrial Equipment Maintenance	39254 – Maintenance of Machine Drive Elements ( M Scheme)
5.	G	Machine Tool Reconditioning and Overhauling	39264 – Machine Tool Reconditioning and Overhauling ( M Scheme)
6.	G	Electrical Maintenance Controls and PLC	32044 – Electrical Drives and Control (M Scheme)

**FOUNDRY TECHNOLOGY (SANDWICH) -2104**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Metal Forming Processes	39164 – Metal Forming Technology (M Scheme)
2.	D	Casting Design and Inspection	4922320 – Industrial Production Technology –I (N Scheme)
3.	D	Hydraulics, Pneumatics, Elec. & Mech. Equipments	4922310 – Solid Mechanics and Fluid Mechanics ( N Scheme)
4.	G	Furnace and Moulding Materials Process	39163 – Foundry Mechanization and Fettling (M Scheme)
5.	G	Foundry Mechanisation and PLC	39153 – Moulding Materials and Processes (M Scheme)
6.	G	Metallurgy of Casting Metals	4921330-Physical Metallurgy( N Scheme)

**AGRICULTURAL TECHNOLOGY- 1222**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	J	Agricultural Extension (2372)	Sugarcane Crop Production (32381) (M Scheme)
2.	J	Dairy Engineering ( 2383)	Post Harvest Technology (32371) (M Scheme)
3.	K	Irrigation Engineering (12372)	Irrigation Engineering (32343) (M Scheme)

**AGRICULTURAL ENGINEERING- 1023**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Tractor and Transmission System	32351 - Tractor and Its Power Units (M Scheme)
2.	D	Farm Processing and Non-Conventional Energy Sources	32371 – Post Harvest Technology (M Scheme)

**CHEMICAL ENGINEERING (FT / SW) - 1076 /2079 & 2070**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	G	Fluid Mechanics	37042 – Momentum Transfer (M Scheme)
2.	G	Heat Transfer	37051 – Heat Transfer (M Scheme)
3.	G	Process Engineering and Economics	<b>No Alternate Paper</b>
4.	J	Momentum & Heat Transfer (7042)	37042 - Momentum Transfer (M Scheme)
5.	J	Inorganic Chemical Technology (7043)	37043 - Inorganic Chemical Technology (M Scheme)
6.	J	Computer Programming and Applications (7051)	40002 – Computer Applications Practical (N Scheme)
7.	J	Organic Chemical Technology (7054)	37071 - Organic Chemical Technology (M Scheme)

8.	K	Physical Chemistry (17041)	40014 – Engineering Chemistry – I ( N Scheme)
9.	K	Process Technology (17043)	37043 - Inorganic Chemical Technology (M Scheme)

#### PETROCHEMICAL ENGINEERING - 1075

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	G	General Chemistry	4076340 – Industrial Chemistry of III Chemical ( N Scheme)
2.	G	Oil Exploration and Refinery Fundamentals	4075310 – Petroleum Refining ( N Scheme)
3.	G	Mechanical Operations	37041 – Mechanical Operations ( M scheme)
4.	G	Process Engineering and Economics	<b>No Alternate Paper</b>
5.	J	Momentum & Heat Transfer (7042)	37042 - Momentum Transfer ( M scheme)
6.	J	Computer Programming and Applications (7051)	40002 – Computer Applications Practical ( N Scheme)
7.	J	Co-Generation Processes (7163)	32052 – Thermal and Automobile Engineering of V Mechanical ( M scheme)
8.	K	Process Utilities (17182)	37181 – Energy Resources and Safety Management ( M scheme)

#### PETROCHEMICAL TECHNOLOGY -1071

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Safety, Pollution and Organic Synthesis	37072 – Industrial Safety and Pollution Control of V Chemical ( M scheme)
2.	D	Industrial Management	37561 – Plant Engineering Management of VI Polymer ( M scheme)

3.	G	General Chemistry	4076340 – Industrial Chemistry <b>of III Chemical ( N Scheme)</b>
4.	G	Oil Exploration and Refinery Fundamentals	4075310 – Petroleum Refining ( N Scheme)
5.	G	Mechanical Operations	37041 – Mechanical Operations (M Scheme)
6.	G	Process Engineering and Economics	<b>No Alternate Paper</b>

#### SUGAR TECHNOLOGY -1074

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	G	Mechanical Operations	37041 – Mechanical Operations <b>of IV Chemical (M Scheme)</b>
2.	G	Industrial Management	37561 – Plant Engineering Management <b>of VI Polymer (M Scheme)</b>
3.	J	Momentum & Heat Transfer (7042)	37042 - Momentum Transfer <b>of IV Chemical (M Scheme)</b>
4.	J	Computer Programming and Applications (7051)	40002 – Computer Applications Practical ( N Scheme)

#### CERAMIC TECHNOLOGY- 2080

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	H	Elements of Ceramics	<b>No Alternate Paper</b>
2.	J	Computer Programming and Applications (7051)	40002 – Computer Applications Practical ( N Scheme)
3.	J	Ceramic Chemistry (8031)	4980330 – Ceramic Raw Materials ( N Scheme)
4.	K	Materials Science(18033)	<b>No Alternate Paper</b>
5.	K	Abrasives(18071)	38082 - Special Ceramics (M Scheme)
6.	K	Glass Technology (18062)	38071 – Glass Technology ( M Scheme)

**PETROLEUM TECHNOLOGY- 1072**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Management of Maintenance	37561 – Plant Engineering Management of VI Polymer ( M Scheme)
2.	D	Business Management	<b>No Alternate Paper</b>
3.	G	General Chemistry	4076340 – Industrial Chemistry of III Chemical ( N Scheme)
4.	G	Refinery Chemistry	<b>No Alternate Paper</b>
5.	G	Stoichiometry	37052 – Chemical Process Calculations of V Chemical ( M Scheme)
6.	G	Pollution Control And Safety	37561 – Plant Engineering Management of VI Polymer ( M Scheme)
7.	G	Refinery Unit Processes	4075310 – Petroleum Refining ( N Scheme) of III Petrochemical ( N Scheme)
8.	G	Process Engineering and Economics	<b>No Alternate Paper</b>

**MARINE ENGINEERING -1027**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Engineering Mechanics and Material Science	4027310 – Marine Strength of Materials and Fluid Mechanics (N Scheme)
2.	D	Marine IC Engines	32752 – Marine Diesel Engine and Power Plant (M Scheme)
3.	D	Communication Engineering	34042 – Communication Engineering of IV ECE (M Scheme)
4.	D	Marine Engineering Design and Drawing	32051 – Design of Machine Elements of V Mechanical (M Scheme)
5.	D	Computer Programming and Applications	40002 – Computer Applications Practical ( N Scheme)
6.	D	Marine Power Plant (Steam)	32752 – Marine Diesel Engine and Power Plant (M Scheme)
7.	D	Marine Control Engineering and Automation	34253- Control Engineering of V Inst. & Control Engg. (M Scheme)
8.	J	Marine Engineering Design (2742)	32051 – Design of Machine Elements of V Mechanical (M Scheme)
9.	J	Marine IC Engines (2752)	32752 – Marine Diesel Engine and Power Plant (M Scheme)
10.	J	Marine Power plant (2753)	32752 – Marine Diesel Engine and Power Plant (M Scheme)
11.	K	Marine Welding Technology (12743)	4020320 – Manufacturing Technology I



			<b>of III Mechanical ( N Scheme)</b>
12	K	Shipping Practice (12751)	4027320 – Ship Construction Technology ( N Scheme)

#### TEXTILE TECHNOLOGY (FT & SW) -1060 & 2060

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	J	Process Control in Spinning and Weaving (6082)	36082 - Process Control in Spinning ( M Scheme)
2.	J	Textile Machinery Control Systems (6083)	36081 – Maintenance of Textile Machineries ( M Scheme)
3.	K	Statistical Quality Control in Textiles (16072)	36082 – Process Control in Spinning ( M Scheme)
4.	K	Fabric Structure(16062)	36044 - Elementary Textile Design ( M Scheme)
5.	K	Textile Marketing and Merchandising(16082)	36671 - Apparel Merchandising <b>of V Sem Garment</b> ( M Scheme)

#### TEXTILE PROCESSING -1061

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Weaving	36142 – Technology of Fabric Manufacture ( M Scheme)
2.	K	Textile Marketing and Merchandising(16082)	36671 - Apparel Merchandising <b>of V Garment</b> ( M Scheme)

#### MANMADE FIBRE TECHNOLOGY -1062

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Textile Testing	36051 - Textile Testing ( M Scheme)
2.	D	Synthetic and Blended Textile Processing	36143 – Dyeing of Manmade Fibre and Blends <b>of IV Textile Processing</b> ( M Scheme)
3.	D	Technology of Synthetic Fibre Manufacture	36253 – Synthetic Fibre Manufacture ( M Scheme)
4.	D	Technology of Advanced Weaving	36142 – Technology of Fabric Manufacture ( M Scheme)
5.	D	Technology of Blended Yarn	36141 – Technology of Yarn

		Manufacture	Manufacture ( M Scheme)
6.	G	Basic Engineering for Textile Industry	36041 – Basic Engineering of <b>IV Textile Tech</b> ( M Scheme)
7.	G	Textured Yarn Technology	<b>No Alternate Paper</b>
8.	G	Production and Processing of Blended Yarns An	<b>No Alternate Paper</b>
9.	J	Eco-Friendly Textiles & Garment Processing	36052 – Textile Wet Processing of <b>V Textile Tech</b> ( M Scheme)

#### TEXTILE DESIGNING AND WEAVING -1063

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1	D	Maintenance of Textile Machinery	36081 – Maintenance of Textile Machineries of <b>VI Textile Tech.</b> ( M Scheme)
2	D	Woven Design and Printing Screen Development	<b>No Alternate Paper</b>

#### TEXTILE MARKETING AND MANAGEMENT -1064

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Advertising and Sales Promotion	36482 – Textile Advertisement Management ( M Scheme)
2.	D	Office Management and Correspondence	<b>No Alternate Paper</b>
3.	D	Co-Operative Management	36453 – Export Marketing ( M Scheme)
4.	J	Production Management (6472)	36472 - Human Resource Development and Entrepreneurship ( M Scheme)
5.	J	Co-Operative Management (6483)	36453 - Export Marketing ( M Scheme)
6.	K	Modern Trends in Marketing (16482)	36482 - Textile Advertisement Management ( M Scheme)

#### GARMENT TECHNOLOGY -1066

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Computer Applications in Garment Technology	36664 – Fashion and Garment CAD Practical ( M Scheme)
2.	D	Clothing Machinery and Equipment	36643 – Clothing Machinery and Equipment ( M Scheme)
3.	G	Apparel Marketing	<b>No Alternate Paper</b>
4.	G	Pattern Grading	<b>No Alternate Paper</b>
5.	G	Pattern Drafting and Construction III	<b>No Alternate Paper</b>
6.	J	Creative Fashion Designing (6671)	36632 - Fashion Designing ( M Scheme)

7.	J	Hand Embroidery (6672)	36635 – Embroidery Practical ( M Scheme)
8.	J	Special Garments (6681)	36644 – Pattern Drafting and Construction – I ( M Scheme)
9.	J	Dress Designing - Ladies Wear (6682)	36653 - Pattern Drafting and Construction – II ( M Scheme)
10.	J	Interior Decoration (6683)	37881 - Interior Decoration <b>of VI Fashion Tech.</b> ( M Scheme)
11.	K	Handicrafts (16671)	<b>No Alternate Paper</b>
12.	K	Knit Wear Technology (16681)	36782 - Knitted Garment Construction <b>of VI TT(Knitting)</b> ( M Scheme)

#### KNITTING TECHNOLOGY -1067

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	General Textile Chemistry	4061320 – Pretreatment of Textile Colouration <b>of III Text. Proc ( N Scheme)</b>
2.	D	Knitted Clothing Technology	36782 – Knitted Garment Construction ( M Scheme)
3.	D	Inspection and Quality Control	36662 – Apparel Quality Control ( M Scheme)
4.	D	Industrial Management	36061 – Textile Management ( M Scheme)
5.	D	Garment Technology II	36662 – Apparel Quality Control ( M Scheme)
6.	D	Wet Processing of Knitted Goods	36052 – Textile Wet Processing ( M Scheme)
7.	G	Basic Engineering for Textiles	36041 – Basic Engineering <b>of IV Text. Tech</b> ( M Scheme)

#### TEXTILE TECHNOLOGY (KNITTING) -1068

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	J	Advanced Warp Knitting (6772)	Warp Knitting and Hosiery Manufacture (36753) ( M Scheme)
2.	J	Garment Production Machinery and Equipment (6782)	Clothing Machinery and Equipments (36643) ( M Scheme)
3.	K	Modern Developments in Knitting (16772)	Advanced Weft Knitting (36744) ( M Scheme)
4.	K	Productivity and Quality Control in Apparel Manufacture (16781)	Apparel Quality Control (36662) ( M Scheme)
5.	K	Computer Applications in Apparel Manufacture (16782)	Apparel Production Planning and Control (36641) ( M Scheme)

#### APPAREL TECHNOLOGY -1069

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	J	Knitwear Technology (6982)	36782 - Knitted Garment Construction <b>of VI TT (Knitting)</b> ( M Scheme)
2.	K	Industrial Clothing (16982)	36982 – Industrial Clothing ( M Scheme)

**FASHION TECHNOLOGY -1223**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	K	Basics of Textiles (17831)	Fibre Science and Yarn Manufacture (36631)
2.	K	History of Costumes (17832)	Indian and Western Costumes(36672) ( M Scheme)
3.	K	Fashion Art And Design (17842)	Art of Sketching and Drawing (37832)
4.	K	Fashion Garment Development (17862)	Fashion Designing of <b>III Garment</b> (36632)
5.	J	Basics Of Garment Manufacture (7833)	Apparel Designing (36633)
6.	J	Garment Manufacture - III (Ladies Wear) (7862)	Pattern Drafting and Construction – II (36653) ( M Scheme)
7.	J	Apparel Production Planning And Control (7871)	Apparel Production Planning and Control (36641) <b>IV Garment</b> ( M Scheme)
8.	J	Fashion Business (7882)	Apparel Merchandising (36671) ( M Scheme)
9.	J	Knitwear Technology (7883)	Knitted Garment Construction of <b>VI TT (Knitting)</b> (36782) ( M Scheme)
10.	J	Fashion Photography (7884)	<b>No Alternate Paper</b>

**TEXTILE TECHNOLOGY (DESIGN & WEAVING) – 1224**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	J	Textile Machinery Control Systems \$ (6083)	36081 – Maintenance Of Textile Machinerie <b>of VI Textile Tech.</b> ( M Scheme)
2.	K	Textile Marketing and Merchandising(16082)	36671 – Apparel Merchandising <b>of V Garment</b> ( M Scheme)
3.	K	Process Control in Weaving (16371)	36381 - Modern Weaving Technology ( M Scheme)

**TEXTILE TECHNOLOGY (MAN MADE FIBRE) -1225**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	J	Eco-Friendly Textiles & Garment Processing (6283)	36052 - Textile Wet Processing <b>of V Textile Tech.</b> ( M Scheme)

**APPLIED ARTS & CRAFTS (FASHION & APPAREL DESIGN) -1226**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	J	Hand Embroidery Techniques (6542)	<b>No Alternate Paper</b>
2.	J	Garment Accessories and Ornamentation (6571 )	36632 – Fashion Designing <b>of III Garment</b>
3.	J	Machine Embroidery ( 6583 )	<b>No Alternate Paper</b>
4.	K	Fundamentals of Garment Manufacture ( 16532 )	36633 - Apparel Designing
5.	K	Basics Of Textiles * (17831 )	36631 - Fibre Science and Yarn Manufacture
6.	K	Applied Handicrafts (16571 )	<b>No Alternate Paper</b>
7.	K	Fashion Business and Forecasting ( 16581 )	36671 - Apparel Merchandising ( M Scheme)

**SHUTTLELESS WEAVING – 1227**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	K	Textile Testing # ( 16051 )	Textile Testing <b>of V Textile Tech</b> (36051 ) ( M Scheme)
2.	K	Process Control in Weaving # (16371 )	Modern Weaving Technology <b>of VI TT (D&amp;W)</b> (36381) ( M Scheme)
3.	K	Technical Textiles # (16372 )	Technical Textile (36072) <b>of VText. Tech.</b> ( M Scheme)
4.	K	Textile Management \$ (16061 )	Textile Management (36061) <b>of VIText. Tech.</b> ( M Scheme)
5.	K	Textile Marketing and Merchandising \$ (16082 )	Apparel Merchandising (36671) <b>of VGarment</b> ( M Scheme)

**HOME TEXTILES -1228**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	K	Textile Testing # (16051)	Textile Testing (36051) of <b>V Textile Tech.</b> ( M Scheme)
2.	K	Textile Management \$ (16061)	Textile Management (36061) of <b>Text. Tech.</b> ( M Scheme)

**TEXTRONICS – 1229**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	K	Textile Management (16061)	Textile Management (36061) <b>of VITextile Tech.</b> ( M Scheme)

**TEXTILE TECHNOLOGY (KNITTING & GARMENT) – 1230**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	K	Garment Production – I (16842)	Apparel Designing (36633)
2.	K	Garment Production – II (16852)	Pattern Drafting And Construction – I of <b>IV Garment</b> (36644) ( M Scheme)
3.	K	Advanced Knitting Technology(16881)	Advanced Weft Knitting (36744) ( M Scheme)

**PLASTIC ENGINEERING**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	J	Computer Programming And Applications (7051)	40002 – Computer Applications Practical ( N Scheme)

**POLYMER TECHNOLOGY - 2074**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Industrial Management	37561 – Plant Engineering Management ( M Scheme)
2.	G	Hydraulics Engineering	<b>No Alternate Paper</b>
3.	G	Process Engineering and Economics	<b>No Alternate Paper</b>
4.	J	Computer Programming and Applications (7051)	40002 – Computer Applications Practical ( N Scheme)
5.	K	Rubber Materials(17551)	37542 - Polymeric Materials ( M Scheme)
6.	K	Footwear Technology(17581)	37552 - Rubber Processing and Product Manufacture ( M Scheme)
7.	K	Paints and Surface Coatings(17582)	No Alternate Paper

**LEATHER TECHNOLOGY (SW) – 2101**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	G	Introduction to Leather Manufacture	39032 – Basics of Leather Manufacture
2.	G	General Engineering	<b>No Alternate Paper</b>
3.	G	Fabrication Theory(Leather Goods And Garment)	39064 - Leather Product Fabrication ( <b>M Scheme</b> )
4.	H	Dairy Writing	<b>No Alternate Paper</b>
5.	J	Principles of Management And Organization (9034)	39071 – Industrial Management and Entrepreneurship ( M

			Scheme) <b>(M Scheme)</b>
6.	K	Computer Applications In Leather Industry (19034)	<b>No Alternate Paper</b>
7.	K	Leather Bio-Technology (19035)	39031 – Applied Leather Chemistry <b>(M Scheme)</b>
8.	K	Newer Concepts In Leather Processing (19036)	<b>No Alternate Paper</b>

#### **LEATHER TECHNOLOGY [FOOTWEAR] (SW) – 2106**

<b>Sl.No.</b>	<b>Scheme</b>	<b>Name of the Subject</b>	<b>Relevant papers in which the candidate has to write in October 2021 Board Examinations.</b>
1.	J	Costing & Quality Control	<b>No Alternate Paper</b>
2.	J	Industrial Organisation and Management	39071 – Industrial Management and Entrepreneurship of <b>VII Leather (M Scheme)</b>
3.	J	Safety in Footwear Industry (9331)	39044 – Safety in Leather Industry <b>of IV Leather (M Scheme)</b>
4.	J	Modern Footwear Styling (9332)	<b>No Alternate Paper</b>
5.	J	Computer Applications in Footwear Technology (9371)	19034 – Computer Applications in Leather Industry <b>(K Scheme)</b>

#### **FOOTWEAR TECHNOLOGY (SANDWICH) -2105**

<b>Sl.No.</b>	<b>Scheme</b>	<b>Name of the Subject</b>	<b>Relevant papers in which the candidate has to write in October 2021 Board Examinations.</b>
1.	D	Technical Report	<b>No Alternate Paper</b>
2.	D	Final Assessment	<b>No Alternate Paper</b>
3.	G	Introduction To Footwear Manufacture	<b>No Alternate Paper</b>
4.	G	Drawing	<b>No Alternate Paper</b>
5.	H	General Engineering	<b>No Alternate Paper</b>
6.	H	Mechanics Of Machines	<b>No Alternate Paper</b>
7.	H	Electrical And Electronics Engineering	32044 – Electrical Drives and Control of IV MECH ( M Scheme)
8.	H	Accounting And Costing	<b>No Alternate Paper</b>

#### **ELECTRICAL ENGINEERING (INSTRUMENTS & CONTROL)**

<b>Sl.No.</b>	<b>Scheme</b>	<b>Name of the Subject</b>	<b>Relevant papers in which the candidate has to write in October 2021 Board Examinations.</b>
1.	G	Digital Electronics and Microprocessor	34043 – Digital Electronics ( M Scheme)

2.	G	Control and Maintenance of Electrical Machine	33071 – Control of Electrical Machines ( M Scheme)
3.	G	Fibre Optics Instrumentation [Et-II]	<b>4042320</b> -Basics of Instrumentation ( N Scheme)

#### COMPUTER TECHNOLOGY / COMPUTER SCIENCE & ENGG.-1050 & 1051)

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Microprocessor Based System Design	34052 – Microcontroller Of V ECE ( M Scheme)
2.	D	Organisational Study And Entrepreneurship	<b>No Alternate Paper</b>
3.	G	Microprocessors	34052 – Microcontroller Of V ECE ( M Scheme)
4.	G	Visual Basic Programming	<b>No Alternate Paper</b>
5.	G	Power Builder	<b>No Alternate Paper</b>
6.	G	Desk Top Publishing	<b>No Alternate Paper</b>
7.	G	Cobol Programming	<b>No Alternate Paper</b>

#### COMPUTER NETWORKING-1053

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	K	Embedded Systems -15072	<b>No Alternate Paper</b>
2.	K	TCP / IP Networking -15352	35262 – Mobile Computing (M Scheme)
3.	K	Network Operating Systems-15361	25265 – System Administration Practical (L Scheme)
4.	K	Wireless Networks -15382	35356 – Wireless Networks Practical (M Scheme)

#### MECHATRONICS / ELECTRONICS (ROBOTICS)

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	G	Computer Integrated Manufacture	32062 – Computer Aided Design and Manufacturing of VI <b>Mechanical Engg</b> ( M Scheme)
2.	J	Electrical Drives and Controls (4742)	32044 – Electrical Drives & Control



			<b>of IV Mechanical Engg</b> ( M Scheme)
3.	J	Theory of Mechatronics (4761)	<b>No Alternate Paper</b>
4.	J	Advanced Manufacturing Systems (4763)	32062 – Computer Aided Design and Manufacturing of <b>VI Mechanical Engg</b> ( M Scheme)

#### ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Mathematics	40012 - Engineering Mathematics – <b>I of I Year Engg.</b> ( N Scheme)
2.	G	Fibre Optics Instrumentation	<b>4042320</b> -Basics of Instrumentation of <b>III Instrumentation and Control Engg.</b> ( N Scheme)
3.	G	Microprocessor and Its Applications	34043 - Digital Electronics of <b>IV ECE</b> ( M Scheme)

#### INSTRUMENTATION AND CONTROL ENGINEERING

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Mathematics	40012 - Engineering Mathematics – <b>I of I Year Engg.</b> ( N Scheme)
2.	D	Instrumentation Drawing	<b>No Alternate Paper</b>
3.	G	Digital Electronics and Microprocessor	34043 - Digital Electronics of <b>IV ECE</b> ( M Scheme)
4.	G	Fibre Optics Instrumentation [ET-I]	<b>4042320</b> -Basics of Instrumentation of <b>III Instrumentation and Control Engg.</b> ( N Scheme)
5.	G	Industrial Safety Instrumentation	34244 – Industrial Instrumentation ( M Scheme)
6.	J	C++ Programming	4052330- CProgramming and Data Structure (N Scheme) of <b>Computer Engg.</b>
7.	J	Servicing of Equipments	<b>No Alternate Paper</b>
8.	J	Industrial Safety	34244 – Industrial Instrumentation ( M Scheme)
9.	J	Computer Based Process Control	34262 – Industrial Automation and Drives
10.	K	Computer Networks	35242 – Computer Networks and Security of <b>IV Computer Engg.</b> ( M Scheme)

**ELECTRONICS ENGINEERING (INSTRUMENTATION)**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Mathematics	40012 - Engineering Mathematics – I of I Year Engg. ( N Scheme)
2.	G	Micro Electronics	34043 - Digital Electronics of IV ECE ( M Scheme)
3.	G	Microprocessor and Its Applications	34043 - Digital Electronics of IV ECE ( M Scheme)
4.	G	Fibre Optics Instrumentation [Et-II]	<b>4042320</b> -Basics of Instrumentation of III Instrumentation and Control Engg.( N Scheme)
5.	G	Environmental Instrumentation [Et-II]	<b>No Alternate Paper</b>

**INSTRUMENTATION TECHNOLOGY**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Mathematics	40012 - Engineering Mathematics – I of I Year Engg. ( N Scheme)
2.	D	Material Science and Fluid Mechanics	32682 – Materials Technology of VI Metallurgy ( M Scheme)
3.	D	Instrumentation Drawing	<b>No Alternate Paper</b>
4.	G	Digital Electronics and Microprocessor	34043 – Digital Electronics of IV ECE ( M Scheme)
5.	G	Robotics	32082 – Robotics of VI MECH ( M Scheme)
6.	G	Fibre Optic Instrumentation	<b>4042320</b> -Basics of Instrumentation of III Instrumentation and Control Engg.( N Scheme)
7.	G	Alternate Energy Sources	32073 – Renewable Energy Sources and Energy Conservation Of V MECH( M Scheme)

**ELECTRONICS (WSI)**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Mathematics	40012 - Engineering Mathematics – I of I Year Engg. ( N Scheme)
2.	D	Organisational Study and Entrepreneurship	<b>No Alternate Paper</b>
3.	D	Electronic Instruments Servicing	<b>No Alternate Paper</b>
4.	D	PCB Design & Technology	4071 – Surface Mount Technology of V ECE (J Scheme)
5.	D	Fabrication of Electronic Equipment	34073 – Electronic System Design of V ECE (M Scheme)
6.	G	Micro Electronics	34043 – Digital Electronics Of IV ECE (M Scheme)
7.	G	Fibre Optics Instrumentation	<b>4042320</b> -Basics of Instrumentation of III

		[Et-I]	<b>Instrumentation and Control Engg. ( N Scheme)</b>
8.	G	Microprocessor and Applications	34043 - Digital Electronics Of <b>IV ECE (M Scheme)</b>
9.	G	Environmental Instrumentation	<b>No Alternate Paper</b>

#### **CIVIL ENGINEERING (ARCHITECTURE) - 1011**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	G	Perspective Drawing and Sciography	31246 - Architectural Drawing – II Practical ( M Scheme)
2.	G	Rural Engineering	31052 – Environmental Engineering and Pollution Control of <b>V Civil Engineering ( M Scheme)</b>

#### **ARCHITECTURAL ASSISTANTSHIP (FT & SW) -1012 / 2102**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	D	Structural Detailing And Drawing	31264 – Structural Detailing and Drawing Practical ( M Scheme)
2.	D	Architectural Rendering	<b>No alternate Paper</b>

#### **PRINTING TECHNOLOGY -1202**

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	G	Science For Printers	40013 – Engineering Physics - I of <b>I Year Engineering ( N Scheme)</b>
2.	G	Basic Engineering	37033 – Electrical and Electronics Engineering of <b>III Chemical ( M Scheme)</b>
3.	J	Film Assembly And Platemaking	4082330 – Digital Prepress ( N Scheme)
4.	J	Colour Separation	38251 – Digital Prepress ( M Scheme)
5.	J	Designing Softwares	38255 – Digital Prepress Practical ( M Scheme)
6.	K	Advertising In Print Media	<b>No Alternate Paper</b>

### COMMERCIAL PRACTICE -1080

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1	D	Type Writing Senior Paper I (English)	38154 – Type Writing – English – GTE Senior – Paper I ( M Scheme)
2	D	Type Writing Senior Paper II (English)	38165 – Type Writing – English – GTE Senior – Paper II ( M Scheme)
3	G	Computers In Business Applications	48117 – Office Automation Lab –I (N Scheme)
4	G	Indian Economy	<b>No Alternate Paper</b>
5	G	Business Statistics	4080330– BUSINESS STATISTICS (N Scheme)
6	G	Auditing	38192 – Auditing
7	G	Cost Accountancy	38143 – Cost Accounting

### MODERN OFFICE PRACTICE -1081

Sl.No.	Scheme	Name of the Subject	Relevant papers in which the candidate has to write in October 2021 Board Examinations.
1.	J	Marketing & Sales Organisation – I	<b>No Alternate Paper</b>
2.	J	Elements Of Tamil Sh Junior (70 WPM)	<b>No Alternate Paper</b>
3.	J	Marketing & Sales Organisation-II	<b>No Alternate Paper</b>
4.	J	Sh Tamil Senior - I Paper	<b>No Alternate Paper</b>
5.	J	Sh Tamil Senior - II Paper Dict, Cond, Elabor	<b>No Alternate Paper</b>
6.	J	Computers In Business Applications Theory I	<b>No Alternate Paper</b>
7.	J	Business Management	<b>No Alternate Paper</b>
8.	J	Sh English Inter - I Paper	<b>No Alternate Paper</b>
9.	J	Sh English Inter - II Paper Dictation (100 WPM)	<b>No Alternate Paper</b>
10.	J	Sh English Inter - II Paper Elabor	<b>No Alternate Paper</b>
11.	K	Business Organisation	<b>No Alternate Paper</b>
12.	K	Visual Basic	28145 – Visual Basic Lab ( L Scheme)
13.	K	Banking – II	<b>No Alternate Paper</b>
14.	K	Business Law – II	<b>No Alternate Paper</b>
15.	K	Elements of Shorthand - Tamil	<b>No Alternate Paper</b>