STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

XI Std Vocational

Basic Mechanical Engineering (Theory)

36

Total No of Periods: 180

MONTH/WEEK	No of periods Theory	CONTENT
June **I week** **II to IV week**	 **14**	 **BME -Introduction** 1.Work Shop Engineering 1.Work Shop Engineering
July **I to IV week**	**17** **17**	2.Hand Tools 2.Hand Tools 3.Measuring Instruments and Gauges. **First Mid Term** 3.Measuring Instruments and Gauges
August **I to IV week**	**14** **14**	4. Engineering Materials. 4. Engineering Materials. 5. Heat Treatment 5. Heat Treatment
September **I to IV week**	**14**	6.Foundry. 6.Foundry. **Revision** **Quarterly exam** **Holidays**
October **I to IV week**	**20** **14**	7.Fasteners 7.Fasteners 8.Standardisation 8.Standardisation
November **I to IV week**	**14** **14**	9.Transmission of Power. 9.Transmission of Power. 10. Electricity. **Second Midterm** 10. Electricty
December **I to IV week**	**14**	11. Industrial Management. 11. Industrial Management. **Revision** **Half Yearly Exam** **Holidays**
January **I to IV week**	 **14**	12. Cost Estimation 12. Cost Estimation **Revision** **Revision**
Total	**180**	

STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING
XI Std Vocational – Basic Mechanical Engineering (Practical)

Total No of Periods: 180

MONTH/WEEK	No of periods Practical	CONTENT
June **I to IV week**		BME Practical Introduction
		BME Practical Introduction
	07	1. Engineering Drawing Introduction.
	07	2. Drawing Instruments
July **I to IV week**	**08**	3. Indian standard Organization
	08	4. Lettering and Dimensioning
		4. Lettering and Dimensioning. **First Mid Term**
	12	5. Scale of Drawing.
August **I to IV week**	**14**	6.Projection.
		6.Projection.
	14	7.Blue Print reading.
		7.Blue Print reading.
September **I to IV week**	**14**	Part -I) Engineering Drawing 1-3 Practical (Isometric to Orthographic)
		Part -I) Engineering Drawing 1-3 Practical (Isometric to Orthographic) **Revision**
		Quarterly exam
		Holidays
October **I to IV week**	**28**	**6-7**Practical(Orthographic to Isometric)
		8 Practical(Orthographic to Isometric)
		9 Practical(Orthographic to Isometric)
		9 Practical(Orthographic to Isometric)
November **I to IV week**	**14**	(Part -II) Fitting Introduction Marking punching and Filing.
	14	Fitting Practical 1. Hacksaw Cutting
		Fitting Practical 2. L- Cutting. **Second Midterm**
		Fitting Practical 3. T- Cutting.
December **I to IV week**		**Revision**
		Revision
		Half Yearly Exam
		Half Yearly Exam
January **I to IV week**	**40**	Fitting Practical 4. Step Cutting.
		Fitting Practical 5. V-Cutting. **Revision**
		Half Yearly Exam
		Holidays
Total	**180**	

STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

XI Std Vocational

BASIC ELECTRICAL ENGINEERING (Theory)

Total No of Periods: 180

MONTH/WEEK	No of periods (Theory)	CONTENT
June **I week** **II to IV week**	 **14** **24**	 1. Introduction to Electrical Engineering 2. Electrical Fundamental Terms
July **I to IV week**	**14** **16**	3. Electro Magnetism 4. Batteries
August **I to IV week**	**24** **15**	5. AC Circuits 6. Transformer
September **I to IV week**	**18**	7. DC Generator & DC Motor
October **I to IV week**	**20**	7. DC Generator & DC Motor 8. AC Generator & AC Motor
November **I to IV week**	**07**	8. AC Generator & AC Motor 9. Engineering Materials
December **I to IV week**	**28**	10. Electronics
January **I to IV week**		
Total	**180**	

STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

XI Std Vocational

BASIC ELECTRICAL ENGINEERING (Practical)

Total No of Periods: 180

MONTH/WEEK	No of periods (Practical)	CONTENT
June **I week** **II to IV week**	 **14** **24**	Introduction 1. Electrical Hand Tools 2. House Wiring and Electric Safety Rules
July **I to IV week**	 **14**	2. House Wiring and Electric Safety Rules 3. Calibration of Ohms law
August **I to IV week**	 **16**	3. Calibration of Ohms law 4. Test Board
September **I to IV week**		4. Test Board
October **I to IV week**	**24** **15**	5. One Lamp Controlled by one Regulator 6. Connection diagram of Fluorescent lamp
November **I to IV week**	 **18**	6. Connection diagram of Fluorescent lamp 7. Staircase Wiring
December **I to IV week**	**20**	8. Godown Wiring
January **I to IV week**	**07** **28**	9. Electric Bell 10. Testing of Electronic Materials
Total	**180**	

STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

XI Std Vocational

Basic Electronics Engineering (Theory)

38

Total No of Periods: 180

MONTH/WEEK	No of periods Theory	CONTENT
June **I week** **II to IV week**		General Introduction – regarding this Vocational Course and its features
	24	1. BASIC ELECTRICAL PRINCIPLES
		1.BASIC ELECTRICAL PRINCIPLES
		1.BASIC ELECTRICAL PRINCIPLES
July **I to IV week**	**15**	1. ELECTRICAL DEVICES
	24	2.ELECTRICAL DEVICES 3. BASIC PRINCIPLES OF ELECTRONICS
		First Mid Term
		3. BASIC PRINCIPLES OF ELECTRONICS
August **I to IV week**		3. BASIC PRINCIPLES OF ELECTRONICS
	12	3. BASIC PRINCIPLES OF ELECTRONICS 4. POWER SUPPLY
		4. POWER SUPPLY
	17	4. POWER SUPPLY 5. TRANSISTORS
September **I to IV week**		5. TRANSISTORS
		Revision
		Quarterly exam
		Holidays
October **I to IV week**	**27**	6. SPECIAL TYPE SEMICONDUCTOR DEVICES
		6. SPECIAL TYPE SEMICONDUCTOR DEVICES
		6. SPECIAL TYPE SEMICONDUCTOR DEVICES
		6. SPECIAL TYPE SEMICONDUCTOR DEVICES
November **I to IV week**	**16**	7. OSCILLATORS
		7. OSCILLATORS
		Second Midterm
	19	8. DIGITAL ELECTRONICS
December **I to IV week**		8. DIGITAL ELECTRONICS
		Revision
		Half Yearly Exam
		Holidays
January **I to IV week**	**14**	9. FUNDAMENTALS OF DIGITAL COMPUTER
	14	10. ELECTRONIC MEASURING INSTRUMENTS
		Revision
		Revision
Total	**180**	

STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

XI Std Vocational

Basic Electronics Engineering (Practical)

Total No of Periods: 180

MONTH/WEEK	No of periods Practical	CONTENT
June I to IV week		General Introduction – regarding this Vocational Course and its features
	12	1. Soldering and its Techniques
		1. Soldering and its Techniques
	15	2. Applications of Multimeter
July I to IV week	**12**	2.Measuring of AC, DC Voltage and DC Current using Multimeter
		3.Measuring of AC, DC Voltage and DC Current using Multimeter
		First Mid Term
	12	4. Finding Resistance Values – Colour Coding & Multimeter
August I to IV week	**17**	5. Testing of Resistors – Series& Parallel
		5. Testing of Resistors – Series& Parallel
	27	6. Testing of Capacitor, Inductor, Transformer, Relay & Speaker
		6. Testing of Capacitor, Inductor, Transformer, Relay & Speaker
September I to IV week		**Revision**
		Revision
		Quarterly exam
		Quarterly exam
October I to IV week	**14**	7.Testing of Diodes and Transistors
		7.Testing of Diodes and Transistors
	19	8.Construction of 6V Power Supply (Bridge Rectifier)
		8.Construction of 6V Power Supply (Bridge Rectifier)
November I to IV week	**14**	9.Construction of Voltage Regulator using IC 7812
		9.Construction of Voltage Regulator using IC 7812
		Second Midterm
	14	10. Construction of Common Emitter (CE-NpN) Amplifier Circuit
December I to IV week		**Revision**
		Revision
		Half Yearly Exam
		Half Yearly Exam
January I to IV week	**12**	11. VI-Characteristics of Zener Diode
	12	12. Verification of Basic Logic Gates
		Revision
		Revision
Total	**180**	

STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

XI Std Vocational - Basic Civil Engineering (Theory)

39

Total No of Periods: 180

MONTH/WEEK	No of periods Theory	CONTENT
June **I week** **II to IV week**	 **10** **10**	**Introduction** **Basic Engineering Drawing** 1.1DrawingInstruments and their uses 1.2 Lines, Lettering and Dimensioning. 1.2 Lines, Lettering and Dimensioning.
July **I to IV week**	**08** **10** **10**	**AutoCAD** 2.1 AutoCAD Software 2.2 AutoCAD Basics **First Mid Term** **Building Materials** 3.1 Stones
August **I to IV week**	**10** **07** **10** **09**	3.2 Bricks 3.2. Bricks 3.3. Sand 4.1 Cement 4.2. Mortar
September **I to IV week**	**10**	4.3 Concrete **Revision** **Quarterly exam** **Holidays**
October **I to IV week**	**07** **05** **05** **10** **10**	5.1 Timbe 5.2 Lime 5.3 Tiles **Building Construction** 6.1 Foundation 6.2 Stone Masonry
November **I to IV week**	**10** **10**	6.3 Brick Masonry 6.3 Brick Masonry **Second Midterm** 7.1 Lintels and Arches
December **I to IV week**	**10**	7.2 Doors and Windows **Revision** **Half Yearly Exam** **Holidays**
January **I to IV week**	**10** **09**	8.1 Stairs 8.2 Roofs 8.3 Floors and Flooring **Revision** **Revision**
Total	**180**	

STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

XI Std Vocational - Basic Civil Engineering (Practical)

Total No of Periods: 180

MONTH/WEEK	No of periods Practical	CONTENT
June **I week** **II to IV week**	**14**	Introduction i. Lettering and Numbering - Vertical Type. i. Lettering and Numbering - Inclined Type ii. Dimensioning Practice – Aligned System. ii. Dimensioning Practice –Uni-directional System.
July **I to IV week**	**10** **15**	Dimensioning Practice in Aligned System using Auto CAD Dimensioning Practice in Aligned System and Uni-directional System using Auto CAD **First Mid Term** Dimensioning Practice in Uni-directional System using Auto CAD
August **I to IV week**	**06** **06**	2.Symbols for Building Materials and Doors 3. Symbols for Electrical and Sanitary Fittings
September **I to IV week**	 **14** **17** **09** **10**	Foundation – Cross Section i.Load Bearing Wall Foundation ii. Isolated Footing Foundation Cross Section using Auto CAD i.Load Bearing Wall Foundation ii. Isolated Footing **Quarterly exam** **Holidays**
October **I to IV week**	**09** **09** **09** **10**	Determine the Normal Consistency for the given sample of Cement Determine the Initial Setting Time for the given sample of Cement Determine the Fineness value for the given sample of Cement Voids ratio for the given Sand sample
November **I to IV week**	**09** **09** **10**	Porosity for the given Sand sample Bulk density for given Sand sample **Second Midterm** Setting out of Foundation for Single Room Building
December **I to IV week**		Setting out of Foundation for Single Room Building **Revision** **Half Yearly Exam** **Holidays**
January **I to IV week**	**07** **07**	Construct a Brick Masonry (one brick thickness) in English Bond Construct a Brick Masonry (one brick thickness) in Flemish Bond **Revision** **Revision**
Total	**180**	

STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

40

Period of Allocation

XI Std Vocational

Basic Automobile Engineering (Theory)

Total No of Periods: 180

MONTH/WEEK	No of periods (Theory)	CONTENT
June **I week**		Introduction
II week IV	**18**	1.Safety Rules
	20	2.Tools and Gauges
		2.Tools and Gauges
July **I to IV week**	**16**	3.Fuel and their types
		3.Fuel and their types
		First Mid Term
	16	4.History of Automobiles
August **I to IV week**	**20**	5.Engine
		5.Engine
	18	6.Intake,Exhaust system and Combustion Chamber
		6.Intake,Exhaust system and Combustion Chamber
September **I to IV week**		**Revision**
		Revision
		Quarterly exam
		Holidays
October **I to IV week**	**16**	7.Cooling System
		7.Cooling System
	16	8.Engine Lubricating System
		8.Engine Lubricating System
November **I to IV week**	**20**	9.Fuel Supply System
		9.Fuel Supply System
		Second Midterm
	20	10.Engine Trouble Shooting and Remedies
December **I to IV week**		**Revision**
		Revision
		Half Yearly Exam
		Holidays
January **I to IV week**		**Revision**
		Revision
		Revision
		Revision
Total	**180**	

STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

XI Std Vocational

Basic Automobile Engineering (Practical)

Total No of Periods: 180

MONTH/WEEK	No of periods (Practical)	CONTENT
June **I week** **II to IV week**	 **14**	 Introduction
		1.Vernier Caliper
		1.Vernier Caliper
July **I to IV week**	**14**	2.Micrometer
		2.Micrometer
		First Mid Term
		2.Micrometer
August **I to IV week**	**28**	3.Decarbonising
		3.Decarbonising
		3.Decarbonising
		3.Decarbonising
September **I to IV week**	**14**	4.Carburettor
		Revision
		Quarterly exam
		Holidays
October **I to IV week**	**14**	5.Oil Pump
		5.Oil Pump
	14	6.A.C.Mechanical Fuel Pump
		6.A.C.Mechanical Fuel Pump
November **I to IV week**	**14**	7.Silencer
	28	8.Piston Assembly
		Second Midterm
		8.Piston Assembly
December **I to IV week**	**14**	9.Water Pump
		Revision
		Half Yearly Exam
		Holidays
January **I to IV week**	**26**	10.Diesel Injector
		10.Diesel Injector
		Revision
		Revision
Total	**180**	

11 கணினி தொழில்நுட்பம்

காலாண்டுத்தேர்வு பாடம்

ஜூன் மாதம்:

பாடம் 01: கணினி அறிமுகம்

பாடம் 02: எண்முறைகள்

பாடம் 03: கணினி அமைப்பு

பாடம் 04: இயக்க அமைப்பின் கோட்பாட்டு கருத்துக்கள்

ஜூலை மாதம்:

பாடம் 05: கணினி அடிப்படைகள்

பகுதி I விண்டோஸ் வேலை செய்தல்

பகுதி II லினக்ஸ்(உபண்டு)

பாடம் 06: சொற்செயலி ஓர் அறிமுகம்

ஆகஸ்ட் மாதம்

பாடம் 07: ஆவணத்தில் அட்டவணைகள்இ பொருள்கள் சேர்ப்பது மற்றும்

ஆவணத்தில் அச்சிடுதல்

பாடம் 08: மெயில் மெர்ஜ் மற்றும் கூடுதல் கருவிகள்

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Xi Std Vocational Textile Technology Theory – Classroom Teaching Schedule

Month	1st Week (7 Periods)	2nd Week (7 Periods)	3rd Week (7 Periods)	4th Week Period(7 Periods)
June	1.1 Textile fibre(full) 1.2 Cotton (1.2.1 to 1.2.4)	1.2 Cotton (1.2.5) 1.3 Jute (full) 1.4 Wool (1.4.1)	1.4 Wool (1.4.2 to1.4.5) 1.5 silk (1.5.1 to 1.5.3)	1.5 silk (1.5.4 to 1.5.5) 1.6 viscose(full)
July	1.7 Nylon (full) 1.8 Polyester (full)	1.9 Other fibers ((full) 2.1 Ginning ((full) 2.2 Yarn Spinning(2.2.1)	First Mid Term	2.2 Yarn Spinning (2.2.2 to2.2.3) 2.3 Blow Room(full)
August	2.4 Carding,Draw Frame,Comber (full) 2.5 Simplex (full)	2.6 Ring Frame (full) 2.7 Process After Spinning (full)	2.8-Yarn Testing	2.9 Yarn Numbering calculation 3.1 Water
September	3.2 Prepare the Cloth for Dyeing 3.3 Scouring	Revision	Quarterly exam	Holidays
October	3.4 Bleaching 3.5 Basic Of Dyeing (3.5.1-3.5.2)	3.5 Basic Of Dyeing (3.5.3) 3.6 Direct Dyes	*3.7* Napthol Dyes *3.8* Acid Dyes	3.9 Basic dyes 3.10 Sulphur Dyes
November	3.11 Hank Dyeing Machines 4.1 Cloth Weave Loom	4.2 Warp Weft Preparation 4.3 Basic Weaves	Second Midterm	4.4 Dobby 4.5 Uses of MS Paint inWeave Designing
December	5.1 Principles of Management 5.2 productivity	Revision	Half Yearly Exam	Holidays
January			Revision	Revision

XI Std Vocational Textile Technology Practical – Classroom Teaching Schedule

Month	1st Week (7 Periods)	2nd Week (7 Periods)	3rd Week (7 Periods)	4th Week Period(7 Periods)
June	8*8 Plain Weave 8*8 Plain Weave(4 Heald Shaft)	2/2,3/3,4/4,5/5 Regular Warp Rib	2/3,3/4,4/5,5/2 Irregular Warp Rib	2/2,3/3,4/4,5/5 Regular Weft Rib
July	2/3,3/4,4/5,5/2 Irregular Weft Rib	2/2,3/3,4/4,5/5 Regular Mat 2/3,3/4,4/5,5/2 Irregular Mat	First Mid Term	2/2,3/3,4/4,5/5 Regular Twill
August	2/3,3/4,4/5,5/2 Irregular Twill	8,10,11,12 Sateen	8,10,11,12 Satin	3/1 Twill Tie Up
September	2/2 Twill Tie Up 3/3 Twill Tie Up	Revision	Quarterly Exam	Holidays
October	1% Direct Dyes Dyeing	2% Direct Dyes Dyeing	3% Direct Dyes Dyeing	Combined Colours Direct Dyes Dyeing
November	2/2 Twill Weave Draw in M S Paint	3/1 Twill Weave Draw in M S Paint	Second Midterm	1/3 Twill Weave Draw in M S Paint
December	3/3 Mat Weave Draw in M S Paint 4/2 Mat Weave Draw in M S Paint	Revision	Half Yearly Exam	Holidays
January			Revision	Revision

XI NURSING VOCATIONAL THEORY 2019-2020

Month	Lesson	Content
June	1	NURSE AND NURSING AS A PROFESSION
July	2	ANATOMY AND PHYSIOLOGY
August	3	INTRODUCTION TO PSYCHOLOGY AND SOCIOLOGY
	4	PRINCIPLE AND PRACTICE OF NURSING
September	4	(Cont) QUARTERLY EXAMINATION
October	5	PERSONAL HYGEINE
	6	HEALTH ASSESSMENT AND PHYSICAL EXAMINATION
November	7	FIRST AID AND EMERGENCIES
	8	HOSPITAL HOUSE KEEPING
December	9	DOCUMENTATION
		HALF YEARLY EXAMINATION
Jan	–	REVISION - QUARTERLY EXAM PORTION
Feb	–	REVISION - HALF YEARLY EXAM PORTION
March	–	ANNUAL COMMON EXAM

மேல் நிலை முதலாம் ஆண்டு

பாடத்திட்டம் 2019–2020

நெசவியலும் ஆடை வடிவமைப்பும் (TEXTILES AND DRESS DESIGNING)

GROUP CODE 2941		SUBJECT CODE 361
மாதம்	பாடம்	தலைப்பு
ஜீன்	1	ஆடையின் அறிமுகம்.
ஜீலை	2	இழை தயாரித்தல் – இயற்கை இழைகள்.
	3	மனிதனால் தயாரிக்கப்பட்ட இழைகள் (செயற்கை இழைகள்).
	முதல் இடைத்தேர்வு	
ஆகஸ்ட்	4	நூல் தயாரித்தல்.
	5	துணி உற்பத்தி செய்தல்.
செப்டம்பர்	6	ஆடை வடிவமைப்பிற்கான கருவிகள்.
	7	அடிப்படைத் தையல்கள்.
	காலண்டுத் தேர்வு	
அக்டோபர்	8	தையல் இயந்திரம்.
	9	உடல் அளவீடுகள்.
	10	காகித மாதிரிகளை தயாரித்தல்.
நவம்பர்	11	துணிகளைத் தைப்பதற்குத் தயார்படுத்துதல்.
	12	அடிப்படைத் தையல் வகைகள்.
	13	தையல் ஆடையின் பாகங்களைத் தைத்தல்.
	இரண்டாம் இடைத்தேர்வு	

டிசம்பர்	14	ஆடை அலங்காரம் மற்றும் டிரிம்மிங்.
	15	ஃபேஷன் அறிமுகம்.
	அரையாண்டுத் தேர்வு	
ஜனவரி	முதல் திருப்புதல் தேர்வு (ஜீன் முதல் செப்டம்பர் வரையுள்ள பாடங்கள்)	
பிப்ரவரி	இரண்டாம் திருப்புதல் தேர்வு (அக்டோபர் முதல் டிசம்பர் வரையுள்ள பாடங்கள்)	
மார்ச்	மூன்றாம் திருப்புதல் தேர்வு (பாடப்பகுதி முழுவதும்)	

XI உணவக மேலாண்மை

மாதம்	ஏண்	பாடம்
ஜூன்	1	உணவக நிறுவனங்கள்
	2	உணவின் அடிப்படைகள்
ஜூலை	3	உணவினைத் தேர்ந்தெடுத்தல் மற்றும் சமைக்கும் முறைகள்
	4	உணவக உபகரணங்கள்
ஆகஸ்ட்	5	அடுமனை
செப்டம்பர்	6	உணவினைப் பதப்படுத்துதல்
அக்டோபர்	7	உணவுப்பட்டியல் மற்றும் சமையற்கலை
நவம்பர்	8	உணவு நுண்ணுயிரியல்
டிசம்பர்	9	மனப்பான்மையும், ஆளுமைத்திறனும்
Month	S.No	Lesson
June	1	FOOD SERVICE OPERATION
	2	BASICS OF FOOD
July	3	SELECTION OF FOODS AND METHODS OF COOKING
	4	FOOD SERVICE EQUPMENT
August	5	BAKERY
September	6	FOOD PRESERVATION
October	7	MENUS AND CUISINS
November	8	FOOD MICROBIOLOGY
December	9	ATTITUDE AND PERSONALITY REQUIREMENTS

QUARTERLY EXAM SYLLABUS

XI AGRICULTURAL SCIENCE (THEORY)

வ.எண்	பாடம்
1	வேளாண்மையின் வரலாறு
2	தமிழ்நாட்டின் தட்பவெப்பநிலை
3	தமிழ்நாட்டின் மண்வளம்
4	தமிழ்நாட்டின் பயிர் வகைகள்
5	உழவியல் முறைகள்
6	பண்ணைக் கருவிகள்
7	விதை மற்றும் விதைப்பு
8	நீர் நிர்வாகம்
9	உரம் மற்றும் உர நிர்வாகம்

47

HIGHER SECONDARY FIRST YEAR

Subject : OFFICE MANAGEMENT AND SECRETARYSHIP

Language / Practical / Non-practical
(Tick (√) whichever is applicable)

Total no. of periods : 160

Sl.No.	Topic / Chapter	No. of periods allotted	
1.	Modern office and functions	14	June
2.	Office Automation	16	July
3.	Office Accommodation and Layout	13	July
4.	Office Stationeries and Forms	15	August
5.	Filing and Indexing	16	September
6.	Electronic Data Processing	17	September
7.	Office Systems and Procedures	13	October
8.	Secretarial Correspondence	14	October
9.	Banking Services	18	November
10.	Meeting and Report writing	14	November
11.	Public Relations	10	December
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
	Total	160	

Chairperson's Signature : -Joo P.Thyagu
Name :
Designation & Address :
Mobile No. :