



**PRESIDENT'S OFFICE**  
REGIONAL ADMINISTRATION  
AND LOCAL GOVERNMENT

# **CURRICULUM IMPLEMENTATION**

CALENDAR FOR SECONDARY  
SCHOOLS IN TANZANIA MAINLAND  
**Ordinary Level- Technical Subjects**

JANUARY, 2022





UNITED REPUBLIC OF TANZANIA  
**PRESIDENT'S OFFICE REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**

# **CURRICULUM IMPLEMENTATION CALENDAR FOR SECONDARY SCHOOLS IN TANZANIA MAINLAND**

## **Ordinary Level- Technical Subjects:**

1. Engineering Science
2. Building Construction
3. Civil Engineering Surveying
4. Architectural Draughting
5. Woodwork and Painting
6. Mechanical Engineering
7. Electrical Engineering
8. Electronics and Communication Engineering

**JANUARY, 2022**

© President's Office  
Regional Administration and Local Government, 2022  
Published, 2022

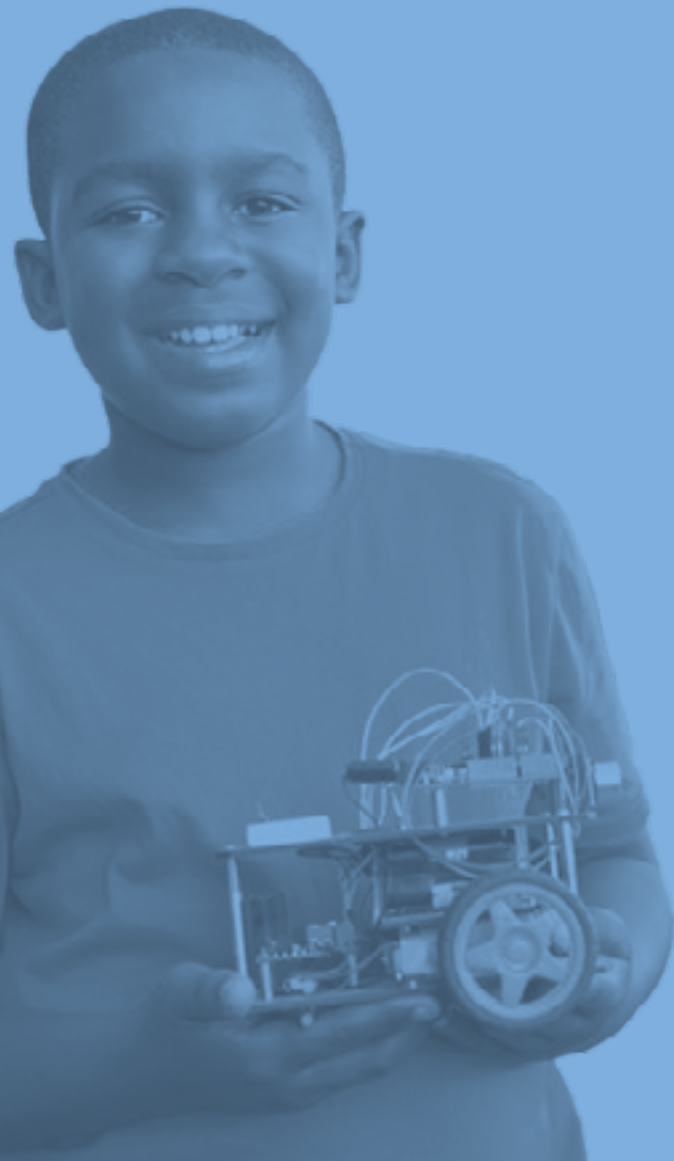
This document should be cited as:

**President's Office Regional Administration and Local Government (2022).  
Curriculum implementation calendar for Secondary Schools Form 1 - 4 in Tanzania Mainland.  
Dodoma: President's Office Regional Administration and Local Government.**

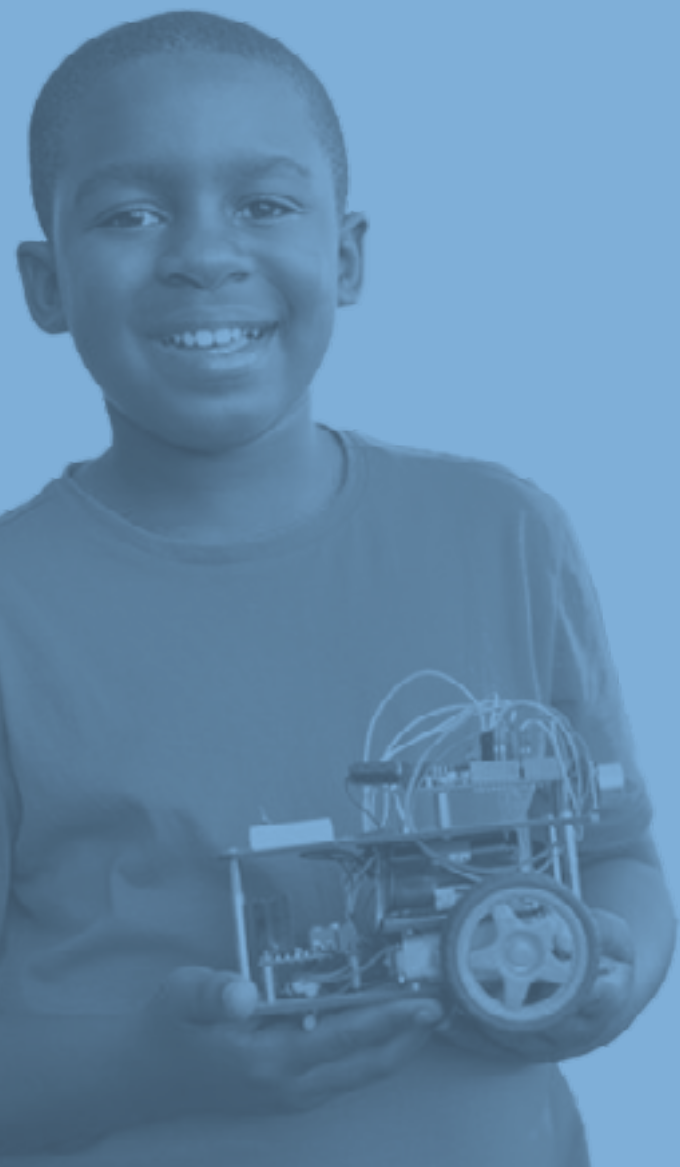
All rights reserved. This calendar may not be reproduced, stored in any retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the President's Office Regional Administration and Local Government

# TABLE OF CONTENTS

Declaration.....	i
Preface.....	ii
Introduction.....	iii
The concept of curriculum implementation calendar.....	iii
The rationale of curriculum implementation calendar .....	iii
The structure of curriculum implementation calendar.....	iii
The sample of the structure of curriculum implementation calendar.....	iv
The use of Curriculum Implementation Calendar.....	iv
 ANNUAL CURRICULUM IMPLEMENTATION CALENDAR 2022 .....	 1
Engineering Science Form 1.....	1
Engineering Science Form 2.....	6
Engineering Science Form 3.....	11
Engineering Science Form 4.....	16
Building Construction Form 1.....	20
Building Construction Form 2.....	23
Building Construction Form 3.....	28
Building Construction Form 4.....	33
Civil Engineering Survey Form 1.....	37
Civil Engineering Survey Form 2.....	40
Civil Engineering Survey Form 3.....	43
Civil Engineering Survey Form 4.....	46
Architectural Draughting Form 1.....	49
Architectural Draughting Form 2.....	52
Architectural Draughting Form 3.....	56
Architectural Draughting Form 4.....	60
Woodwork and Painting Engineering Form 1.....	63
Woodwork and Painting Engineering Form 2.....	66
Woodwork and Painting Engineering Form 3.....	69







Woodwork and Painting Engineering Form 4.....	72
Mechanical Engineering Form 1.....	75
Mechanical Engineering Form 2.....	78
Mechanical Engineering Form 3.....	81
Mechanical Engineering Form 4.....	86
Electrical Engineering Form 1.....	91
Electrical Engineering Form 2.....	94
Electrical Engineering Form 3.....	97
Electrical Engineering Form 4.....	100
Electronics and Communication Engineering Form 1.....	103
Electronics and Communication Engineering Form 2.....	107
Electronics and Communication Engineering Form 3.....	111
Electronics and Communication Engineering Form 4.....	115

## Declaration

This Curriculum Implementation Calendar is approved for use in Secondary Schools Form 1-4 in Tanzania Mainland.



.....  
**Prof. Riziki S. Shemdoe**

Permanent Secretary

President's Office Regional Administration and Local Government

P.O. Box 1923

Dodoma.


## Preface

President's Office Regional Administration and Local Government (PO-RALG); Ministry of Education, Science and Technology (MoEST) in collaboration with Tanzania Institute of Education (TIE) has developed a Secondary School Curriculum Implementation Calendar. This calendar is a roadmap for teaching and learning of all subjects across the country.

This calendar will harmonize teaching and learning pace and content across the country. It has six (6) main parts namely; main competence (main topic), specific competence (sub topic), number of periods, month, week, and date. These features will help a subject teacher to timely plan and achieve a specific competence. A subject teacher is required to adhere to the subject calendar in order to bring in harmonized national-wide teaching and learning.

Specifically, this calendar will be useful for teachers in preparation of scheme of works as well as in the process of teaching and learning of a specific competence timely. The Education Quality Assurance Department as well as education officers at school, ward, district, region, and ministry levels are required to use this calendar as a tool to determine the effectiveness of the teaching and learning process.

The President's Office Regional Administration and Local Government is open to receiving suggestions from teachers and other education stakeholders for the improvements of this calendar. All suggestions should be channeled to Permanent Secretary President's Office Regional Administration and Local Government.



.....  
**Prof. Riziki S. Shemdoe**

Permanent Secretary

President's Office Regional Administration and Local Government

# Introduction

This curriculum implementation calendar is the initiative by the President's Office Regional Administration and Local Government and Ministry of Education, Science and Technology to ensure that the curriculum is implemented at its best. It has been prepared by considering the national school calendar for the year 2022. The school calendar has two terms, in which each term has one short and long break. Every teacher is required to use this curriculum implementation calendar in preparation of the scheme of work.

## **The concept of curriculum implementation calendar**

Curriculum implantation calendar is a tool outlining general competence and specific competence as per specific subject syllabus. For each specific competence, this calendar is showing number of periods, month, week and date for attaining it. This calendar is for both public and private schools.

## **The rationale of curriculum implementation calendar**

This calendar will help in harmonising what is supposed to be taught for a specified time across the country. If adhered to all students will learn the same specific competence at the same time. Also, this will help education coordinators and supervisors to identify weaknesses in teaching of a specific subject. Apart from that, this calendar will help in assessments of topics taught in a given time.

## **The structure of curriculum implementation calendar**

Curriculum implementation calendar has six (6) main parts namely; main topic, sub topic, number of periods, month, week and date. These parts are described as follows.

**Topic:** General content of the subject matter that are expected to be taught in order to develop the intended competences.

**Sub topic:** These are similar units of the topic that have been arranged in a logical order to facilitate teaching and learning process.

**Number of periods:** This is a total number of periods required to teach a specific competence as per subtopic. These periods have been adopted from the subject syllabi although for some cases number of periods has been added or deducted to match with number of teaching and learning days as per school calendar.

**Month:** This is the month in which a specific competence or subtopic is supposed to be taught.

**Week:** These are five workdays in a month under which a process of teaching and learning will take place.

**Date:** This is a specific day of the month in which teaching and learning will take place.

#### **The sample of the structure of curriculum implementation calendar**

Main topic	Sub topic	Number of Periods	Month	Week	Date

#### **The use of Curriculum Implementation Calendar**

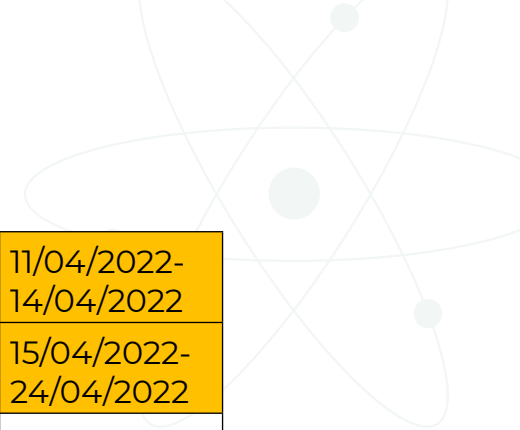
This calendar is a roadmap which will help a teacher to access his/her pace in teaching a specific competence as per subject syllabus. It is suggested that a teacher must timely finish all topics and subtopics as indicated in this calendar. Internal and external quality assurers will use this calendar to access the efficiency of the teacher in fulfilling his/her responsibilities.



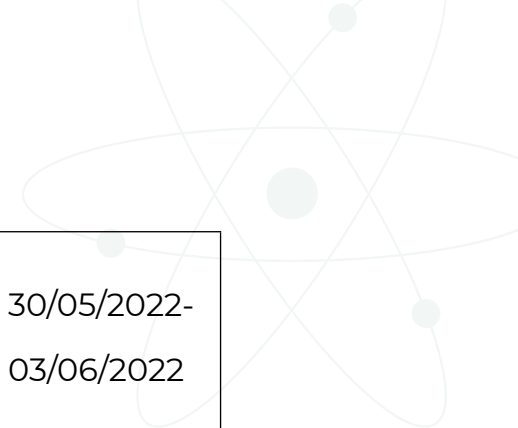
# ANNUAL CURRICULUM IMPLEMENTATION CALENDAR 2022

## Engineering Science Form 1

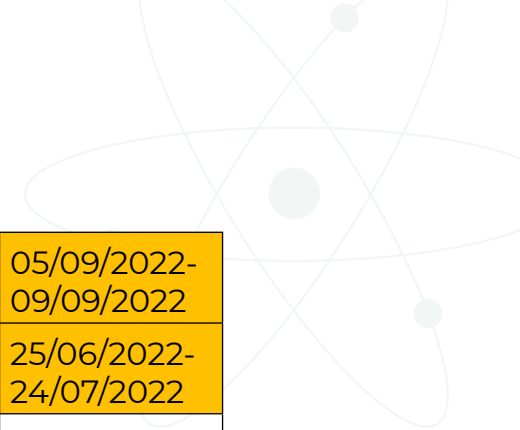
Main Topic	Sub Topic	Number of Periods	Month	Week	Date
	Orientation course		January February	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup> -4 <sup>th</sup>	17/01/2022- 25/02/2022
1.0 Introduction to Engineering Science	1.1 Concept of Science	1	February	4 <sup>th</sup>	28/02/2022- 04/03/2022
	1.2 Concepts of Engineering Science	2	March	1 <sup>st</sup>	
2.0 Measurements	2.1 Concepts of Measurement	3	March	2 <sup>nd</sup>	07/03/2022- 11/03/2022
	2.2 Physical Quantities	3	March	3 <sup>rd</sup>	14/03/2022- 18/03/2022
3.0 Measuring Instruments	3.1 Basic Instruments	2	March	4 <sup>th</sup>	21/03/2022- 25/03/2022
	3.2 Errors	1			
	3.3 Measuring Length	3	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022- 01/04/2022
	3.4 Measuring time	1	April	1 <sup>st</sup>	04/04/2022- 08/04/2022
	3.5 Measuring mass	2			



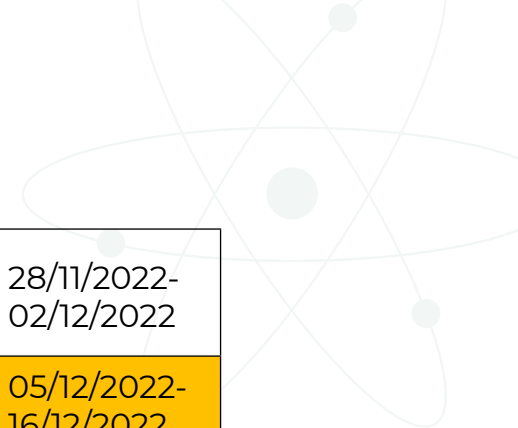
	<b>Mid-term Assessment</b>				11/04/2022-14/04/2022
	<b>Mid-term Break</b>				15/04/2022-24/04/2022
	3.6 Measuring Weight 3.7 Measuring Volume	1 2	April	4 <sup>th</sup>	25/04/2022-29/04/2022
	3.8 Measuring Density 3.9 Measuring Relative Density	1 2	May	1 <sup>st</sup>	02/05/2022-06/05/2022
	4.1 Concept of force 4.2 Types of forces 4.3 Effects of force	1 1 1	May	2 <sup>nd</sup>	09/05/2022-13/05/2022
4.0 Forces: (Part One)	4.4 Scalar and vector quantities 4.5 Vector treatment of force	1 2	May	3 <sup>rd</sup>	16/05/2022-20/05/2022
5.0 Properties of matter	5.1 Structure of matter 5.2 Adhesion and cohesion 5.3 Surface tension	1 1 1	May	4 <sup>th</sup>	23/05/2022-27/05/2022



	5.4 Capillarity 5.5 Osmosis 5.6 Diffusion	1 1 1	May June	4 <sup>th</sup> 1 <sup>st</sup>	30/05/2022- 03/06/2022
6.0 Linear motion	6.1 Distance and displacement 6.2 Speed and velocity 6.3 Acceleration	1 1 1	June	2 <sup>nd</sup>	06/06/2022- 10/06/2022
	<b>Terminal Assessment</b>				13/06/2022- 24/06/2022
	<b>First Term Break</b>				25/06/2022- 24/07/2022
6.0 Linear Motion	6.4 Equations of Uniformly Accelerated Motion	3	July	3 <sup>rd</sup>	25/07/2022- 29/07/2022
	6.5 Motion Under Gravity 6.6 Newton's First Law of Motion	4 2	August	1 <sup>st</sup> -2 <sup>nd</sup>	01/08/2022- 12/08/2022
	6.7 Newton's Second Law of Motion	3	August	3 <sup>rd</sup>	15/08/2022- 19/08/2022
	6.8 Newton's Third Law of Motion	3	August	4 <sup>th</sup>	22/08/2022- 26/08/2022
7.0 Work, Energy and Power	7.1 Work 7.2 Energy	1 2	August September	4 <sup>th</sup> 1 <sup>st</sup>	29/08/2022- 02/09/2022



	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022
	<b>Mid-term Break</b>				25/06/2022-24/07/2022
7.0 Work, Energy and Power	7.3 Forms of Energy 7.4 Principle of Conservation of Energy 7.5 Power	2 2 2	September October	4 <sup>th</sup> 1 <sup>st</sup>	26/09/2022-07/10/2022
8.0 Sound Waves: (Part one)	8.1 Introduction to Sound Waves 8.2 Sources of Sound 8.3 Velocity of Sound in Air 8.4 Reflection of Sound 8.5 Echo 8.6 Reverberation	1 1 3 2 3 2	October November	2 <sup>nd</sup> -4 <sup>th</sup> 1 <sup>st</sup>	10/10/2022-04/11/2022
9.0 Light (optics): part one	9.1 Introduction to Light 9.2 Reflection of Light 9.3 Reflection of Light from a Plane Mirror	2 2 2	November	2 <sup>nd</sup> -3 <sup>rd</sup>	07/11/2022-18/11/2022

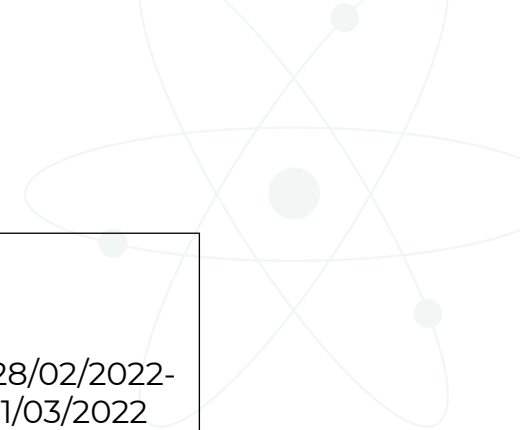


10.0 Friction	10.1 Concept of Friction	3	November December	4 <sup>th</sup> 1 <sup>st</sup>	28/11/2022- 02/12/2022
	<b>Annual Assessment</b>				05/12/2022- 16/12/2022
	<b>End of Year Break</b>				17/12/2022



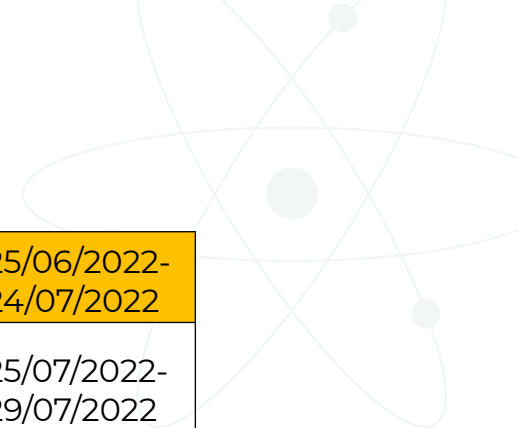
## Engineering Science Form 2

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Turning Forces	1.1 Stability of equilibrium	1	January	3 <sup>rd</sup> -4 <sup>th</sup>	11/01/2022- 28/01/2022
	1.2 Centre of gravity	2			
	1.3 Moment of a force	3			
	1.4 Principle of moments	2	January	4 <sup>th</sup>	31/01/2022- 11/02/2022
	1.5 Conditions for equilibrium of parallel forces	2	February	1 <sup>st</sup> -2 <sup>nd</sup>	
	1.6 Couple and torque	2			
2.0 Simple Machines: (part one)	2.1 Meaning of Simple Machine	2	February	3 <sup>rd</sup> -4 <sup>th</sup>	14/02/2022- 25/02/2022
	2.2 Levers	2			
	2.3 Pulleys	2			




	2.4 Inclined planes 2.5 Screw jack 2.6 Wheel and axle 2.7 Wheel and differential axle 2.8 Hydraulic press	2 1 1 1 1	February March	4 <sup>th</sup> 1 <sup>st</sup> - 2 <sup>nd</sup>	28/02/2022- 11/03/2022
3.0 Fluid Mechanics	3.1 Pressure 3.2 Atmospheric pressure 3.3 Liquid pressure 3.4 Absolute pressure, vacuum pressure and gauge pressure	1 1 2 2	March	3 <sup>rd</sup> - 4 <sup>th</sup>	14/03/2022- 25/03/2022-
	3.5 Standard atmospheric pressure 3.6 Measurement of pressure 3.7 Applications of pressure	2 2 2	March April	4 <sup>th</sup> 1 <sup>st</sup>	21/03/2022- 08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/03/2022- 24/04/2022

	3.8 Archimedes' principle	3	April	4 <sup>th</sup>	25/04/2022- 29/04/2022
	3.9 Law of flotation	3	May	1 <sup>st</sup>	02/05/2022- 06/05/2022
4.0 Heat (part one)	4.1 Introduction 4.2 Temperature 4.3 Instruments for measuring temperature 4.4 Temperature measurement points	1 1 2 2	May	2 <sup>nd</sup> -3 <sup>rd</sup>	09/05/2022- 20/05/2022
	4.5 Types of thermometers 4.6 Conduction 4.7 Convection 4.8 Radiation 4.9 Thermos flask	2 1 1 1 1	May June	4 <sup>th</sup> 1 <sup>st</sup>	23/05/2022- 03/06/2022
5.0 Heat (part two)	5.1 Introduction to thermal expansion 5.2 Solid expansion	2 1	June	2 <sup>nd</sup>	06/06/2022- 10/06/2022
	<b>Terminal Assessment</b>				13/06/2022- 24/06/2022



	<b>First Term Break</b>				25/06/2022- 24/07/2022
5.0 Heat (part two)	5.2 Solid expansion 5.3 Liquid expansion	1 2	July	4 <sup>th</sup>	25/07/2022- 29/07/2022
	5.4 Gas expansion 5.5 Measurement of thermal expansion	2 1	August	1 <sup>st</sup>	01/08/2022- 05/08/2022
	5.6 Linear expansion 5.7 Areal Expansion (Superficial expansion)	2 1	August	2 <sup>nd</sup>	09/08/2022- 12/08/2022
	5.8 Volume expansion (Cubical expansion) 5.9 Applications of thermal expansion	1 2	August	3 <sup>rd</sup>	15/08/2022- 19/08/2022
6.0 Electricity	6.1 Static electricity	3	August	4 <sup>th</sup>	22/08/2022- 26/08/2022
	6.2 Current electricity 6.3 Electric current	1 2	August September	4 <sup>th</sup> 1 <sup>st</sup>	29/08/2022- 02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022- 09/09/2022
	<b>Mid-term Break</b>				10/09/2022- 25/09/2022

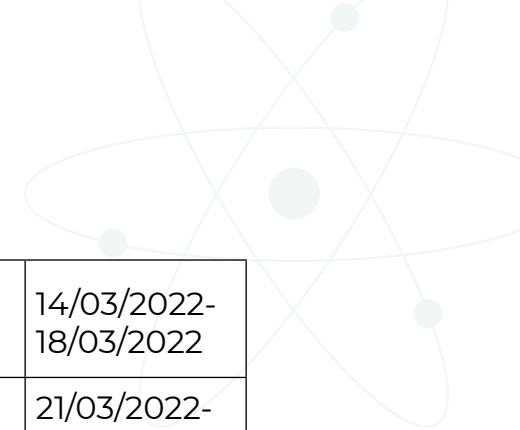


	6.4 Voltage	2	September	4 <sup>th</sup>	26/09/2022-
	6.5 Ohm's Law	2	October	1 <sup>st</sup>	07/10/2022
	6.6 Electric circuits	2			
	6.7 Resistance	3	October	2 <sup>nd</sup>	10/10/2022-
	6.8 Electric Cells	3	October	3 <sup>rd</sup>	14/10/2022
					17/10/2022-
					21/10/2022
	<b>Preparations for Form Two National Examination</b>				24/10/2022-
					28/10/2022
	<b>End of Year Break</b>				17/12/2022

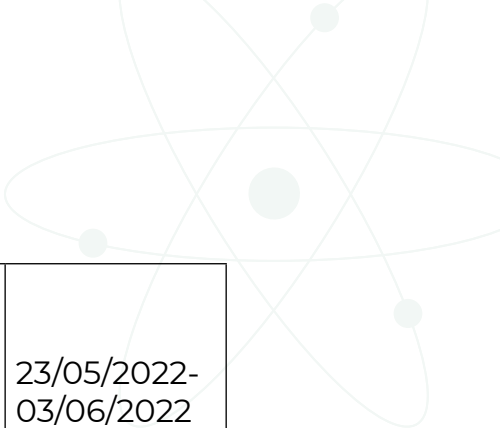


## Engineering Science Form 3

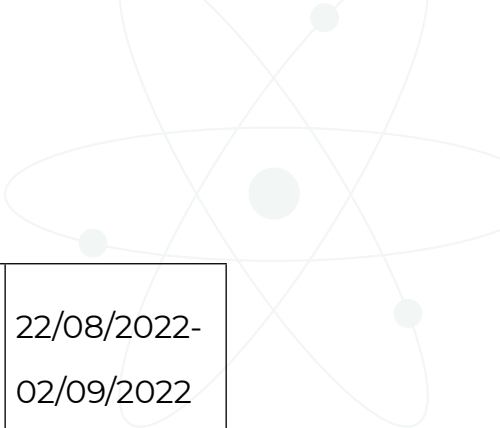
Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Forces: (Part Two)	1.1 Vector treatment of forces	2	January	3 <sup>rd</sup>	17/01/2022-21/01/2022
	1.2 Resolving vectors by graphical and analytical methods	2			
	1.3 Relative motion	4	January	4 <sup>th</sup>	24/01/2022-04/02/2022
	1.4 Resultant and equilibrant forces	4	February	1 <sup>st</sup>	
2.0 Angular Motion	2.1 Concept of angular motion and angular displacement	4	February	2 <sup>nd</sup>	07/02/2022-11/02/2022
	2.2 Angular velocity	4	February	3 <sup>rd</sup> -4 <sup>th</sup>	14/02/2022-25/02/2022
	2.3 Angular acceleration	4			
	2.4 Equations of uniformly accelerated angular motion	4	February	4 <sup>th</sup>	28/02/2022-
			March	1 <sup>st</sup>	04/03/2022
	2.5 Circular motion	4	March	2 <sup>nd</sup>	07/03/2022-11/03/2022



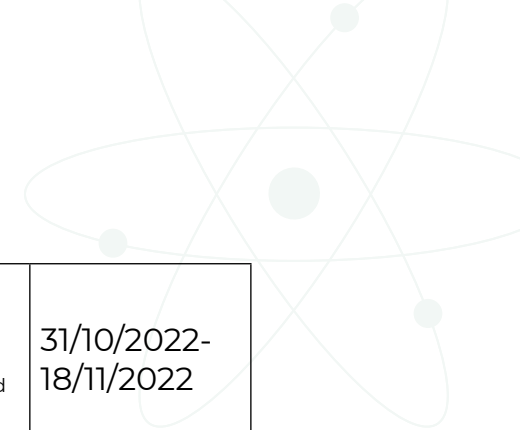
	2.6 Centripetal forces	4	March	3 <sup>rd</sup>	14/03/2022-18/03/2022
	2.7 Centrifugal forces	2	March	4 <sup>th</sup>	21/03/2022-25/03/2022
	2.8 Centripetal acceleration	2			
	2.9 Torque	4	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022-01/04/2022
3.0 Periodic Motion	3.1 The concept of periodic motion	4	April	1 <sup>st</sup>	04/04/2022-08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022-14/04/2022
	<b>Mid-term Break</b>				15/04/2022-24/04/2022
3.0 Periodic Motion	3.2 Oscillations	2	April	4 <sup>th</sup>	25/04/2022-29/04/2022
	3.3 Simple pendulum	2			
	3.4 Periodic time	6	May	1 <sup>st</sup> - 3 <sup>rd</sup>	02/05/2022-20/05/2022
	3.5 Importance of periodic motion	6	May		



4.0 Projectile Motion	4.1 The Concept of projectile motion	4	May	4 <sup>th</sup>	23/05/2022-03/06/2022
	4.2 Projectile range and height	2	June	1 <sup>st</sup>	
	4.3 Time of flight	2			
5.0 Simple Machines: (part two)	5.1 Law of Machine	4	June	2 <sup>nd</sup>	06/06/2022-10/06/2022
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
5.0 Simple Machines: (part two)	5.2 Gear drive	4	July	4 <sup>th</sup>	25/07/2022-29/07/2022
	5.3 Belt drive	4	August	1 <sup>st</sup>	01/08/2022-05/08/2022
	5.4 Chain drives	4	August	2 <sup>nd</sup>	09/08/2022-12/08/2022
6.0 Strength of Materials	6.1 Mechanical properties of materials	4	August	3 <sup>rd</sup>	15/08/2022-19/08/2022



	6.2 Brittleness	2	August	4 <sup>th</sup>	22/08/2022-
	6.3 Ductility	4	September	1 <sup>st</sup>	02/09/2022
	6.4 Elasticity	2			
	<b>Mid-term Assessment</b>				05/09/2022- 09/09/2022
	<b>Mid-term Break</b>				10/09/2022- 25/09/2022
	6.5 Plasticity and elongation	2	September	4 <sup>th</sup>	26/09/2022-
	6.6 Hardness	2			30/09/2022
	6.7 Softness	2	October	1 <sup>st</sup> -2 <sup>nd</sup>	03/10/2022-
	6.8 Malleability	2			14/10/2022
	6.9 Toughness	2			
	6.10 Flexibility	2			
	6.11 Forces applied to solid materials	4	October	3 <sup>rd</sup> -4 <sup>th</sup>	17/10/2022-
	6.12 Young's Modulus of Elasticity	4			28/10/2022

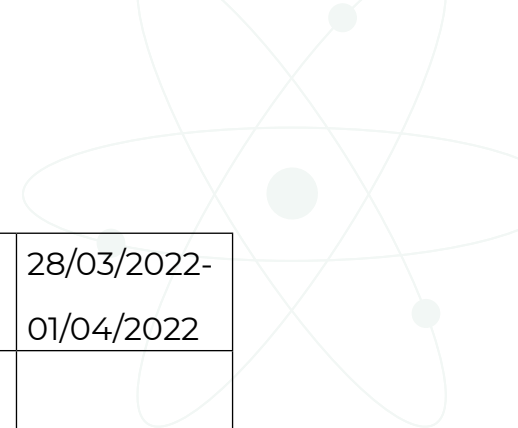


7.0 Heat: (part three)	7.1 Measurement of heat	6	October November	4 <sup>th</sup> 1 <sup>st</sup> - 3 <sup>rd</sup>	31/10/2022- 18/11/2022
	7.2 Calorific values	2			
	7.3 Change of state	4			
	7.4 Melting and boiling point	2	November	4 <sup>th</sup>	21/11/2022- 02/12/2022
	7.5 Hot water system	6	December	1 <sup>st</sup>	
	<b>Annual Assessment</b>				05/12/2022- 16/12/2022
	<b>End of Year Break</b>				17/12/2022

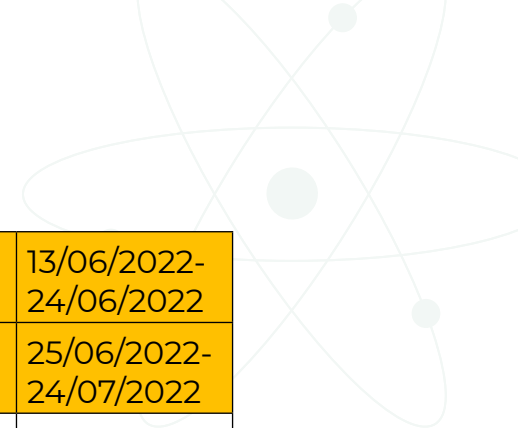


## Engineering Science Form 4


Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Light (Optics): Part Two	1.1 Reflection of Light	2	January	3 <sup>rd</sup> -4 <sup>th</sup>	17/01/2022-28/01/2022
	1.2 Optical Instruments	4			
	1.3 Curved Mirrors	2			
	1.4 Concave and Convex mirrors	4	January February	4 <sup>th</sup> 1 <sup>st</sup>	31/01/2022-04/02/2022
	1.5 Applications of concave and convex mirrors	3	February	2 <sup>nd</sup> -3 <sup>rd</sup>	07/02/2022-18/02/2022
	1.6 Refraction of light	2			
	1.7 Refractive indices of different media	3			
	1.8 Critical angle and refractive index	3	February March	4 <sup>th</sup> 1 <sup>st</sup>	21/02/2022-04/03/2022
	1.9 Construction of ray diagrams	5			
	1.10 Lenses	5	March	2 <sup>nd</sup> -3 <sup>rd</sup>	07/03/2022-18/03/2022
	1.11 Magnification of Lenses	3			



	1.14 Colour pigments	4	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022- 01/04/2022
2.0 Sound Waves (part two)	2.1 Musical Sounds	4	April	1 <sup>st</sup>	
	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/04/2022- 24/04/2022
2.0 Sound Waves (part two)	2.2 Resonance	4	April	4 <sup>th</sup>	25/04/2022- 29/04/2022
3.0 Electricity and Magnetism	3.1 Magnets 3.2 Magnetisation and demagnetisation 3.3 Magnetic poles	3 3 2	May	1 <sup>st</sup> -2 <sup>nd</sup>	02/05/2022- 13/05/2022
	3.4 Resistance of a conductor 3.5 Electrical energy and power 3.6 Electrolysis	3 2 3	May	3 <sup>rd</sup> -4 <sup>th</sup>	16/05/2022- 27/05/2022
	3.7 Electricity consumption 3.8 Magnetic field due to an electric 3.9 Electromagnets current	2 3 3	May June	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	30/05/2022- 10/06/2022



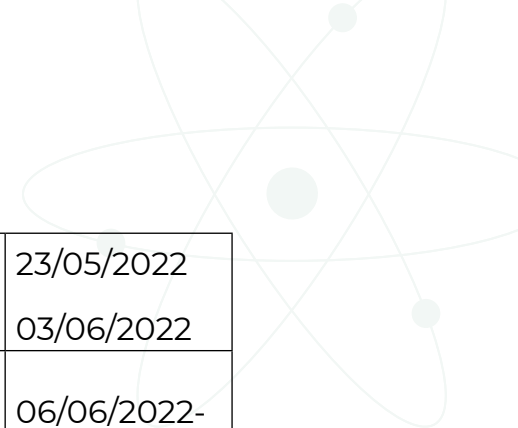
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
	3.10 Electromagnetic induction	4	July	4 <sup>th</sup>	25/07/2022-29/07/2022
	3.11 Induced electromotive force 3.12 Mode of operation of AC, DC generators and transformers	2 2	August	1 <sup>st</sup>	01/08/2022-05/08/2022
4.0 Basic Electronics	4.1 Semi-Conductors and insulators 4.2 Electronic components 4.3 Resistors and colour codes	3 3 2	August	2 <sup>nd</sup> -3 <sup>rd</sup>	01/08/2022-19/08/2022
	4.4 Capacitor and colour codes	4	August	4 <sup>th</sup>	22/08/2022-26/08/2022
	4.5 Inductors 4.6 Diodes	2 2	August September	4 <sup>th</sup> 1 <sup>st</sup>	29/08/2022-02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022



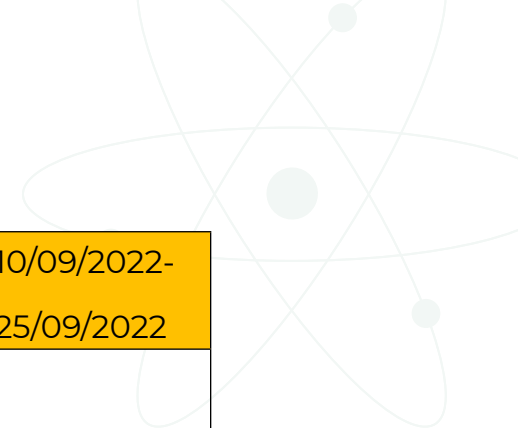
	<b>Mid-term Break</b>				10/09/2022- 25/09/2022
	4.7 Transistors	3	September October	4 <sup>th</sup> 1 <sup>st</sup>	26/09/2022- 07/10/2022
	4.8 Analogue signals	2			
	4.9 Single stage amplifier	3			
5.0 Solar Energy	5.1 Concept of solar energy	4	October	2 <sup>nd</sup>	10/10/2022- 14/10/2022
	5.2 Solar energy system installation	4	October	3 <sup>rd</sup>	17/10/2022- 21/10/2022
	Preparations for CSEE		November		24/10/2022- 28/10/2022

## Building Construction Form 1

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
English Orientation Course (EOC)	English Orientation Course (EOC)		January February	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup> -4 <sup>th</sup>	17/01/2022- 25/02/2022
1.0 Workshop Orientation	1.1 Introduction to Construction Workshop	4	February March	1 <sup>st</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	28/02/2022- 11/03/2022
	1.2 Types of workshops	4	March	3 <sup>rd</sup> -4 <sup>th</sup>	14/03/2022 25/03/2022
	1.3 Workshops Tools and Equipment	4	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022- 08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/04/2022- 24/04/2022
	1.4 Safety Measures in Construction workshops	4	April May	4 <sup>th</sup> 1 <sup>st</sup>	25/04/2022 06/05/2022
2.0 Building Construction, Science and Technology	2.1 Relationship between building construction, science and technology and other construction fields.	4	May	2 <sup>nd</sup> -3 <sup>rd</sup>	09/05/2022 20/05/2022



	2.2 Types of Building Construction Professionals	4	May June	4 <sup>th</sup> 1 <sup>st</sup>	23/05/2022 03/06/2022
	2.3 Duties and Functions of Building Construction Personnel	2	June	2 <sup>nd</sup>	06/06/2022- 10/06/2022
	<b>Terminal Assessment</b>				13/06/2022- 24/06/2022
	<b>First Term Break</b>				25/06/2022- 24/07/2022
	2.3 Duties and Functions of Building Construction Personnel	2	July	4 <sup>th</sup>	25/07/2022 29/07/2022
	2.4 The Importance of Building Construction Field in the Society and its Environment Impact	4	August	1 <sup>st</sup> -2 <sup>nd</sup>	01/08/2022 12/08/2022
	2.5 Parts of the Building/ Structure	4	August	3 <sup>rd</sup> -4 <sup>th</sup>	15/08/2022 26/08/2022
	3.1 Tools and Equipment	2	August September	4 <sup>th</sup> 1 <sup>st</sup>	29/08/2022- 02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022- 09/09/2022



	<b>Mid-term Break</b>				10/09/2022- 25/09/2022
3.0 Construction Workshop Practice	3.1 Tools and Equipment	6	September October	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	26/09/2022 14/10/2022
4.0 Introduction to Building Construction	4.1 Historical Background / Development of Building Construction and Materials	4	October	3 <sup>rd</sup> -4 <sup>th</sup>	17/10/2022- 28/10/2022
	4.2 Relationship between Building Construction Works and other Trades	4	October November	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	31/11/2022- 11/11/2022
	4.3 Factors that Govern Changes of Technology in Building Construction	6	November December	3 <sup>rd</sup> – 4 <sup>th</sup> 1 <sup>st</sup>	07/11/2022- 02/12/2022
	<b>Annual Assessment</b>				05/12/2022- 16/12/2022
	<b>End of Year Break</b>				17/12/2022

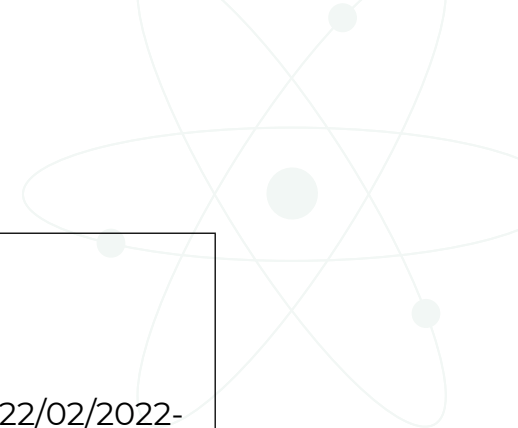
## Building Construction Form 2

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Building Construction, site Analysis	1.1 Site Analysis 1.2 Site Preparation	8	January	3 <sup>rd</sup>	17/01/2022- 21/01/2022
	1.3 Safety	8	January	4 <sup>th</sup>	24/01/2022 28/01/2022
	1.4 Soil Investigation 1.5 Classification of soil	8	January February	4 <sup>th</sup> 1 <sup>st</sup>	31/01/2022 04/02/2022
2.0 Building Material	2.1 Timber 2.2 Seasoning of Timber 2.3 Defects of Wood	8	February	2 <sup>nd</sup>	07/02/2022 11/02/2022
	2.4 Timber Treatment 2.5 Concrete Materials 2.5 Concrete Materials	8	February	3 <sup>rd</sup>	14/02/2022 18/02/2022
	2.6 Metals 2.7 Glasses 2.8 Plastics 2.9 Pipes	8	February	4 <sup>th</sup>	21/02/2022 25/02/2022
	2.10 Bricks/ Blocks 2.11 Procedures for Manufacturing Bricks/ Blocks	8	March	1 <sup>st</sup>	28/02/2022 04/03/2022

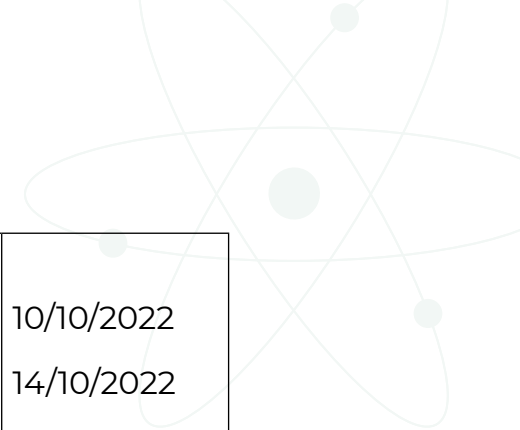


	2.12 Functions of Blocks 2.13 Mortar Used in Building Construction	8	March	2 <sup>nd</sup>	07/03/2022 11/03/2022
3.0 Workshop Practice	3.1 Workshop Practice in Building Construction	16	March	3 <sup>rd</sup> -4 <sup>th</sup>	14/03/2022 25/03/2022
4.0 Masonry Works	4.1 Introduction to Masonry Works in Building Construction 4.2 Bonds and Bonding in masonry works	8	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022- 01/04/2022
	4.3 Stone Works 4.4 Finishing to Stone Masonry Joints	8	April	1 <sup>st</sup>	04/04/2022- 08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/04/2022- 24/04/2022
5.0 Workshop Practice	5.1 Practice for Masonry Works	24	April May	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	25/04/2022 13/05/2022
6.0 Foundation Setting Out	6.1 Foundation 6.2 Setting Out of Building 6.3 Building Foundation Trench Excavation	8	May	3 <sup>rd</sup>	16/05/2022 20/05/2022

	6.4 Dewatering 6.5 Leveling and Bottoming up a Building Foundation Trenches 6.6 The purpose of Blinding to Building Foundation Trench	8	May	4 <sup>th</sup>	23/05/2022 27/05/2022
7.0 Workshop Practice	7.1 Practical on Building Setting Out	16	May June	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	30/05/2022- 10/06/2022
	<b>Terminal Assessment</b>				13/06/2022- 24/06/2022
	<b>First Term Break</b>				25/06/2022- 24/07/2022
7.0 Workshop Practice	7.1 Practical on Building Setting Out	16	July August	4 <sup>th</sup> 1 <sup>st</sup>	25/07/2022 05/08/2022
8.0 Walls	8.1 Concept of walls 8.2 Wall functions and Functional Requirements 8.3 Wall Finishing Material, (plaster, rendering, and stucco 8.4 Bridging of Openings 8.5 Door and Frame Fixing	8	August	2 <sup>nd</sup>	09/08/2022 12/08/2022
	8.6 Doors and Windows Frame Fixing Methods	8	August	3 <sup>rd</sup>	15/08/2022 19/08/2022



	8.7 Functions and Functional Requirement of External Wall Finishes (Glazing and copings and tiles) Painting and jointing.	8	August	4 <sup>th</sup>	22/02/2022-26/02/2022
	8.8 Coping and Corbel				
	8.9 Pointing and Jointing	8	August September	4 <sup>th</sup> 1 <sup>st</sup>	29/08/2022-02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022
	<b>Mid-term Break</b>				10/09/2022-25/09/2022
9.0 Workshop Practice	9.1 Practical for Constructing Wall	8	September	4 <sup>th</sup>	26/09/2022 30/09/2022
10.0 Temporary Support	10.1 Scaffolds, Shores and Ladder	8	October	1 <sup>st</sup>	03/10/2022 07/10/2022



	10.2 Formwork and Centring 10.3 Scaffold and Formwork Terminologies	8	October	2 <sup>nd</sup>	10/10/2022 14/10/2022
	10.4 Practical on Erecting Scaffold, Formwork and Shores	8	October	3 <sup>rd</sup>	17/10/2022 21/10/2022
	<b>Preparations for FTNA</b>				24/10/2022- 28/10/2022
	<b>End of Year Break</b>				17/12/2022

### Building Construction Form 3

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Floors	1.1 Introduction to Floors 1.2 Floors Finishes	8	January	3 <sup>rd</sup>	17/01/2022- 21/01/2022
	1.3 Floor Construction 1.4 Practice 2.1 Introduction to Roofs 2.2 Functions and functional requirements of roofs	32	January February	4 <sup>th</sup> 1 <sup>st</sup> – 3 <sup>rd</sup>	24/01/2022 18/02/2022
	2.3 Types and Parts of Roofs 2.4 Roof Structures 2.5 Roof Covering Materials	8	February	4 <sup>th</sup>	21/02/2022 25/02/2022
	2.6 Practice	24	February March	4 <sup>th</sup> 1 <sup>st</sup> -3 <sup>rd</sup>	28/02/2022 18/03/2022
3.0 Stair and Staircase	3.1 Introduction to Stair and Staircase 3.2 Terminologies Used in Stair	8	March	4 <sup>th</sup>	21/03/2022 25/03/2022
	3.3 Ramps and Thresholds 3.4 Stair Dimensioning	16	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022- 08/04/2022





	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/04/2022- 24/04/2022
	3.5 Practice	24	April May	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	25/04/2022 13/05/2022
4.0 Piping System	4.1 Fixture and Fittings 4.2 Pipe Bending and Supports	8	May	3 <sup>rd</sup>	16/05/2022 20/05/2022
	4.3 Threading 4.4 Practice pipe installation 4.5 Water mains and its distributions	24	May June	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	23/05/2022- 10/06/2022
	<b>Terminal Assessment</b>				23/06/2022- 04/06/2022
	<b>First Term Break</b>				25/06/2022 24/07/2022
	4.5 Water mains and its distributions	8	July	4 <sup>th</sup>	25/07/2022 29/07/2022




5.0 Water Supply	4.6 Taping from Water Main 4.7 Practice for Installing Piping System 5.1 Sources of Water 5.2 Types of water and their Uses 5.3 Water Treatment 6 5.4 Systems of Cold Water Supply 2	32	August	1 <sup>st</sup> -4 <sup>th</sup>	01/08/2022-26/08/2022
	5.6 Heaters	8	August September	4 <sup>th</sup> 1 <sup>st</sup>	29/08/2022-02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022
	<b>Mid-term Break</b>				10/09/2022-25/09/2022
	5.7 Practice	8	September	4 <sup>th</sup>	26/09/2022-30/09/2022



6.0 Fire Place	6.1 Introduction to Fire Place 6.2 Functions and Functional Requirement of a Fireplace 6.3 Types of fire place (plans and elevations) 6.4 Parts of Fire Place	8	October	1 <sup>st</sup>	03/10/2022 07/10/2022
7.0 Beams and Columns	6.5 Fire Place Appliances 6.6 Methods of Construction of Fire Places 7.1 Functions and Functional Requirements of Beams and Columns 7.2 Types and shapes of columns and beams 7.3 Beam and Column Casting	16	October	2 <sup>nd</sup> -3 <sup>rd</sup>	10/10/2022 21/10/2022
	7.4 Practical for Casting Beams and Columns	16	October November	4 <sup>th</sup> 1 <sup>st</sup>	24/10/2022 04/11/2022

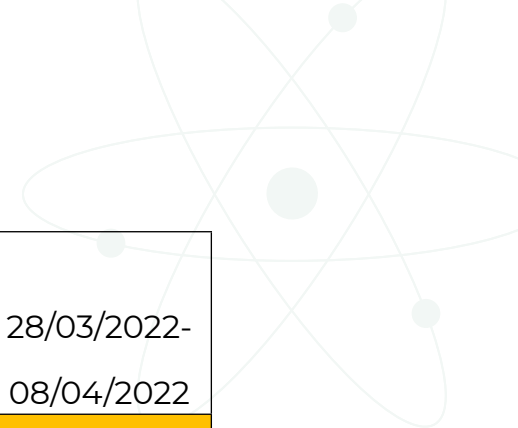




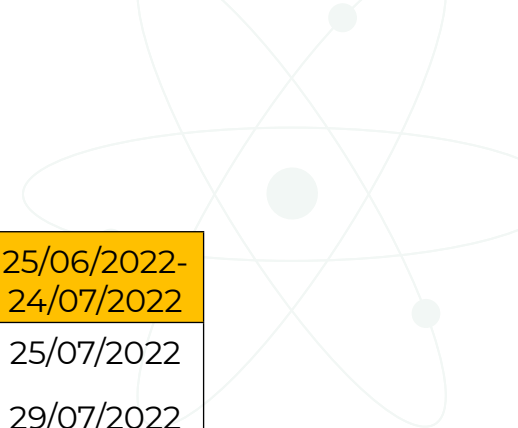
8.0 Drainage and Rain Water Harvesting Systems	8.1 Rain Water Harvesting	16	November	2 <sup>nd</sup> -3 <sup>rd</sup>	07/11/2022 18/11/2022
	8.2 Gutters				
	8.3 Canals Taping from Sources				
	8.4 Channel Mechanism for Irrigation				
	8.5 Types of Drainage Systems	16	November December	4 <sup>th</sup> 1 <sup>st</sup>	21/11/2022 02/12/2022
	8.6 Septic tank, cess pool/ soak way pit				
	8.7 Piping Installation and Manholes				
	<b>Annual Assessment</b>				05/12/2022- 16/12/2022
	<b>End of Year Break</b>				17/12/2022

## Building Construction Form 4

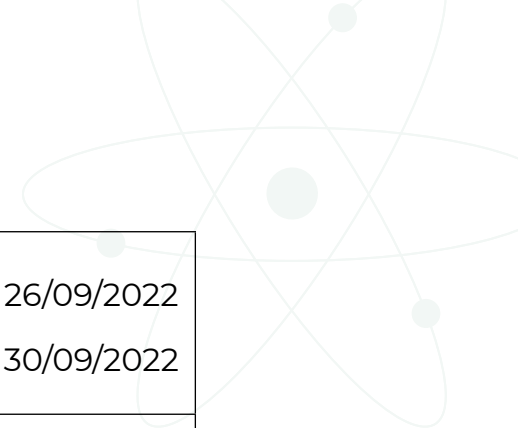
Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Plumbing science	1.1 Pressure/ Atmospheric Pressure	4	January	3 <sup>rd</sup>	17/01/2022
	1.2 Losses of Pressure in Pipes	4			21/01/2022
	1.3 Types of Flow (gravity/ mechanical)	4	January	4 <sup>th</sup>	24/01/2022
	1.5 Flow Measurements	4			28/01/2022
	1.6 Practice	16	January February	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	31/01/2022 11/02/2022
2.0 Pumps	2.1 Introduction to pumps	2	February	3 <sup>rd</sup> -4 <sup>th</sup>	14/02/2022
	2.2 Types of pumps	2			
	2.3 application of pumps	4	March	1 <sup>st</sup>	04/03/2022
	2.4 Practice for installing pumps	16			
3.0 Sanitary appliances	3.1 Introductions to Sanitary Appliances	2	March	2 <sup>nd</sup>	07//03/2022
	3.2 Types of Sanitary Appliances	4			
	3.3 Functions and Functional Requirements of sanitary appliances	2			11/03/2022
	3.4 Fixing sanitary appliances	16	March	3 <sup>rd</sup> -4 <sup>th</sup>	14/03/2022- 25/03/2022



	3.5 Traps for sanitary appliance	6			
	3.6 Causes of water seal loss and its remedy	6	March	4 <sup>th</sup>	28/03/2022-
	3.7 Practice for installing sanitary appliance	4	April	1 <sup>st</sup>	08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/04/2022- 24/04/2022
	3.7 Practice for Installing Sanitary Appliance	8	April	4 <sup>th</sup>	25/04/2022 29/04/2022
4.0 Metal joining	4.1 Soldering	8	May	1 <sup>st</sup>	02/05/2022- 06/05/2022
	4.2 Arc Welding	8	May	2 <sup>nd</sup>	09/05/2022- 13/05/2022
	4.3 Gas-welding	8	May	3 <sup>rd</sup>	16/05/2022- 20/05/2022
	4.4 Riveting and Forging	4	May	4 <sup>th</sup>	23/05/2022-
	4.5 Screw and Bolts	4			27/05/2022
	4.6 Practice	16	June	1 <sup>st</sup> -2 <sup>nd</sup>	30/05/2022- 10/06/2022
	<b>Terminal Assessment</b>				13/06/2022- 24/06/2022



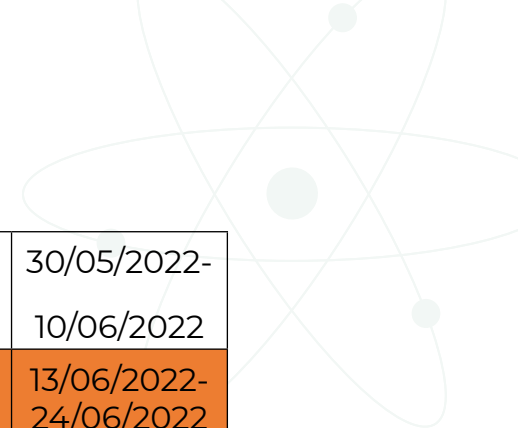
	<b>First Term Break</b>				25/06/2022- 24/07/2022
	4.6 Practice	8	July	4 <sup>th</sup>	25/07/2022 29/07/2022
5.0 Cost Estimate	5.1 Description of cost estimate	4	August	1 <sup>st</sup>	01/08/2022
	5.2 Types and purposes of cost estimation	4			05/08/2022
	5.3 Methods of Cost estimation	6	August	2 <sup>nd</sup>	09/08/2022
	5.4 Estimation of costs	2			12/08/2022
<b>6.0</b> Schedules of material	6.1 Definition	2	August	3 <sup>rd</sup>	15/08/2022
	6.2 Use of Materials Schedules 6.3 Preparation of Various Material Schedules	6			19/08/2022
7.0 The progress chart	7.1 Definition	6	August	4 <sup>th</sup>	22/08/2022-
	7.2 Progress chart in building projects	10	September	1 <sup>st</sup>	02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022- 09/09/2022
	<b>Mid-term Break</b>				10/09/2022- 25/09/2022



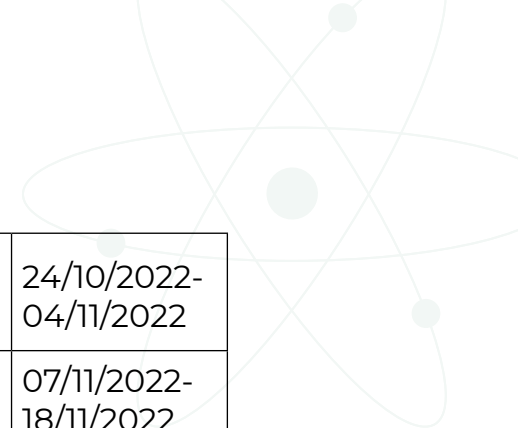
	7.4 Bar chart	8	September	4 <sup>th</sup>	26/09/2022 30/09/2022
8.0 Irrigation system	8.1 Introduction to irrigation system	2	October	1 <sup>st</sup>	03/10/2022 07/10/2022
	8.2 Advantages and disadvantages of irrigation system	2			
	8.3 Source of water for irrigation	2			
	8.4 Classification of irrigation systems	2			
	8.5 Methods/ Techniques of irrigation system layout 8.6 Practice for Installing Irrigation System	6 10	October	2 <sup>nd</sup> -3 <sup>rd</sup>	10/10/2022 21/10/2022
	<b>Preparations for CSEE</b>				24/10/2022- 28/10/2022

## Civil Engineering Survey Form 1

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
	Orientation course		January February	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup> -4 <sup>th</sup>	17/01/2022- 25/02/2022
1.0 Introduction	1.1 Objectives, branches and types of surveying	4	February March	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	28/02/2022- 11/03/2022
	1.2 Common terminologies in surveying	2	March	3 <sup>rd</sup>	14/03/2022- 18/03/2022
	1.3 Importance of surveying	4	March April	4 <sup>th</sup> 1 <sup>st</sup>	21/03/2022- 01/04/2022
2.0 Civil Engineering Surveyor	2.1 Meaning of civil engineer surveyor	2	April	1 <sup>st</sup>	04/04/2022- 08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/04/2022- 24/04/2022
2.0 Civil Engineering Surveyor	2.1 Meaning of civil engineer surveyor	2	April	4 <sup>th</sup>	25/04/2022- 29/04/2022
	2.2 Duties and roles of civil engineering surveyor	4	May	1 <sup>st</sup> -2 <sup>nd</sup>	02/05/2022- 13/05/2022
	2.3 Relationship between surveyor and civil engineer	4	May	3 <sup>rd</sup> -4 <sup>th</sup>	16/05/2022- 27/05/2022



3.0 Surveying Practice	3.1 Introduction to surveying practice	4	June	1 <sup>st</sup> -2 <sup>nd</sup>	30/05/2022-10/06/2022
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
3.0 Surveying Practice	3.2 Methods and advantages of surveying practical	6	July August	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	25/07/2022-12/08/2022
4.0 Surveying Tools and Equipment	4.1 Tools and equipment	4	August	3 <sup>rd</sup> -4 <sup>th</sup>	15/08/2022-26/08/2022
	4.2 Tools and equipment management	2	September	1 <sup>st</sup>	29/08/2022-02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022
	<b>Mid-term Break</b>				10/09/2022-25/09/2022
	4.2 Tools and equipment management	4	September October	4 <sup>th</sup> 1 <sup>st</sup>	26/09/2022-07/10/2022
	4.3 Use of surveying tools and equipment	4	October	2 <sup>nd</sup> -3 <sup>rd</sup>	10/10/2022-21/10/2022



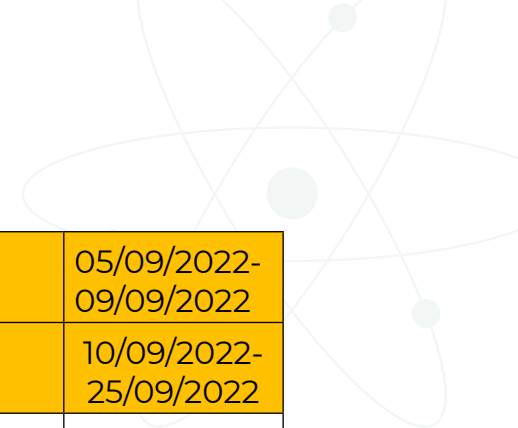
5.0 Safety Management and Rules	5.1 Safety management rules and procedures in surveying	4	October November	4 <sup>th</sup> 1 <sup>st</sup>	24/10/2022- 04/11/2022
	5.2 Personal safety rules and management	4	November	2 <sup>nd</sup> -3 <sup>rd</sup>	07/11/2022- 18/11/2022
	5.3 Importance of safety management and rule	4	November December	4 <sup>th</sup> 1 <sup>st</sup>	21/11/2022- 02/12/2022
	<b>Annual Assessment</b>				05/12/2022- 16/12/2022
	<b>End of Year Break</b>				17/12/2022



## Civil Engineering Survey Form 2

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Introduction Surveying Methods	1.1 Basic surveying methods	6	January	3 <sup>rd</sup> -4 <sup>th</sup>	17/01/2022-28/01/2022
	1.2 Process of surveying	6			
	1.3 Role of surveyor	4			
2.0 Chain Surveying and Linear Measurement	2.1 Introduction	4	January February	4 <sup>th</sup> 1 <sup>st</sup> -3 <sup>rd</sup>	31/01/2022-18/02/2022
	2.2 Surveying stations	10			
	2.3 Surveying tools and instruments	10			
	2.4 Procedure of fieldwork for chain surveying	8	February	4 <sup>th</sup>	21/02/2022-25/02/2022
	2.5 Linear measurements	16	February March	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	28/02/2022-11/03/2022
	2.6 Field data acquisition	16	March	3 <sup>rd</sup> -4 <sup>th</sup>	14/03/2022-25/03/2022
	2.7 Obstacle and correction in chaining	4	March	4 <sup>th</sup>	28/03/2022-
	2.8 Accuracy and errors	4	April	1 <sup>st</sup>	01/04/2022
3.0 Compass Surveying	3.1 Introduction	2	April	1 <sup>st</sup>	04/04/2022-08/04/2022
	3.2 Bearings and meridians	6			
	<b>Mid-term Assessment</b>				11/04/2022-14/04/2022

	<b>Mid-term Break</b>				15/04/2022-24/04/2022
3.0 Compass Surveying	3.3 Theory of compasses	8	April	4 <sup>th</sup>	25/04/2022-29/04/2022
	3.4 Magnetic declination 3.5 Local attraction determination and correction	4 4	May	1 <sup>st</sup>	02/05/2022-06/05/2022
	3.6 Practice	16	May	2 <sup>nd</sup> -3 <sup>rd</sup>	09/05/2022-20/05/2022
4.0 Surveying Techniques for Small Areas	4.1 Introduction	8	May	4 <sup>th</sup>	23/05/2022-27/05/2022
	4.2 Typical measuring surveying tools	16	May June	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	30/05/2022-10/06/2022
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
4.0 Surveying Techniques for Small Areas	4.3 Fieldwork procedures	16	July August	4 <sup>th</sup> 1 <sup>st</sup>	25/07/2022-05/08/2022
5.0 Surveying Techniques (Practice)	5.1 Field practice	16	August	2 <sup>nd</sup> -3 <sup>rd</sup>	09/08/2022-19/08/2022
5.0 Surveying Techniques (Practice)	5.2 Plotting	8	August	4 <sup>th</sup>	22/08/2022-26/08/2022

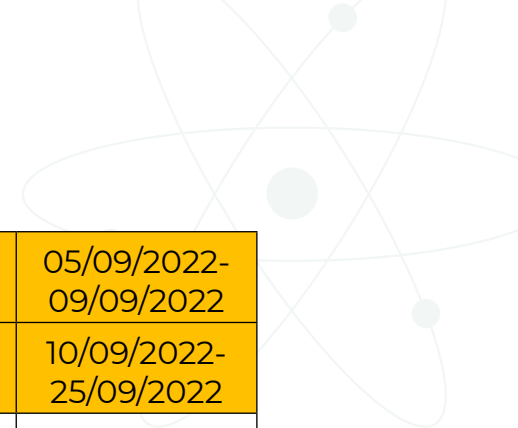


	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022
	<b>Mid-term Break</b>				10/09/2022-25/09/2022
5.0 Surveying Techniques (Practice)	5.4 Plotting the framework	8	September	4 <sup>th</sup>	26/09/2022-30/09/2022
	5.5 Symbols	8	October	1 <sup>st</sup>	03/10/2022-07/10/2022
6.0 Surveying Techniques for Small Areas (Practice)	6.1 Fieldwork surveying procedures	8	October	2 <sup>nd</sup>	10/10/2022-14/10/2022
	6.2 Field practice	8	October	3 <sup>rd</sup>	17/10/2022-21/10/2022
	<b>Preparation for SFNA</b>		October	4 <sup>th</sup>	24/10/2022-28/10/2022
	<b>End of Year Break</b>				17/12/2022

### Civil Engineering Survey Form 3

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Levelling	1.1 Introduction	4	January	3 <sup>rd</sup> -4 <sup>th</sup>	17/01/2022-24/01/2022
	1.2 Levelling instruments and tools	12			
	1.3 Levelling staff	16	January February	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	31/01/2022-11/02/2022
	1.4 The level	16	February	3 <sup>rd</sup> -4 <sup>th</sup>	14/02/2022-25/02/2022
	1.5 Field practice (temporary adjustment)	16	March	1 <sup>st</sup> -2 <sup>nd</sup>	28/02/2022-11/03/2022
	1.6 Field practice (permanent adjustment) two peg test/ method	8	March	3 <sup>rd</sup> -4 <sup>th</sup>	14/03/2022-25/03/2022
2.0 Fieldwork (Levelling)	2.1 Fieldwork routines	8	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022-01/04/2022
	2.2 Method of booking	8	April	1 <sup>st</sup>	04/04/2022-08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022-14/04/2022
	<b>Mid-term Break</b>				15/04/2022-24/04/2022

2.0 Fieldwork (Levelling)	2.3 Methods of computing reduced levels	8	April	4 <sup>th</sup>	25/04/2022-29/04/2022
	2.4 Errors and adjustments in levelling	8	May	1 <sup>st</sup>	02/05/2022-06/05/2022
3.0 Line Levelling	3.1 Theory of direct leveling	16	May	2 <sup>nd</sup> -3 <sup>rd</sup>	09/05/2022-20/05/2022
	3.2 Longitudinal and cross-sections	16	May June	4 <sup>th</sup> 1 <sup>st</sup>	23/05/2022-03/06/2022
	3.3 General procedures	8	June	2 <sup>nd</sup>	06/06/2022-10/06/2022
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
	3.3 General procedures	8	July	4 <sup>th</sup>	25/07/2022-29/07/2022
	3.4 Field practice (profile levelling and plotting)	16	August	1 <sup>st</sup> -2 <sup>nd</sup>	01/08/2022-12/08/2022
4.0 Contouring	4.1 Introduction	8	August	3 <sup>rd</sup>	15/08/2022-19/08/2022
	4.2 Methods of contouring	16	August September	4 <sup>th</sup> 1 <sup>st</sup>	22/08/2022-02/09/2022



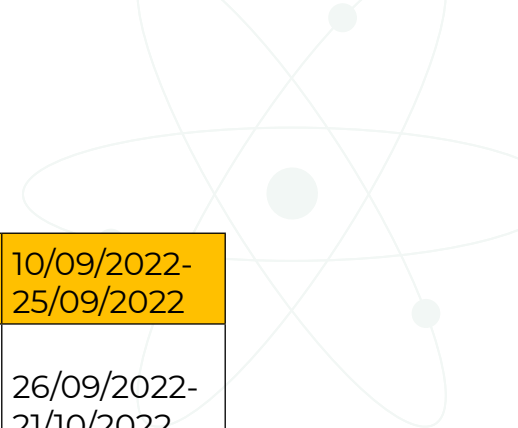
	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022
	<b>Mid-term Break</b>				10/09/2022-25/09/2022
	4.3 Interpolation and plotting of contours	16	September October	4 <sup>th</sup> 1 <sup>st</sup>	26/09/2022-07/10/2022
	4.4 Field practice (locating contours)	24	October	2 <sup>nd</sup> -4 <sup>th</sup>	10/10/2022-28/10/2022
5.0 Theodolite Surveying	5.1 Introduction	8	October November	4 <sup>th</sup> 1 <sup>st</sup>	31/10/2022-04/11/2022
	5.2 Theodolite operation	8	November	2 <sup>nd</sup>	07/11/2022-12/11/2022
	5.3 Setting out	8	November	3 <sup>rd</sup>	14/11/2022-18/11/2022
	5.4 Errors adjustment in theodolite surveying	8	November	4 <sup>th</sup>	21/11/2022-25/11/2022
	5.5 Practice (fieldwork)	8	November De- cember	4 <sup>th</sup> 1 <sup>st</sup>	28/11/2022-02/12/2022
	<b>Annual Assessment</b>				05/12/2022-16/12/2022
	<b>End of Year Break</b>				17/12/2022

## Civil Engineering Survey Form 4

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Traverse Surveying	1.1 Introduction	8	January	3 <sup>rd</sup>	17/01/2022-21/01/2022
	1.2 Closing error	16	January February	4 <sup>th</sup> 1 <sup>st</sup>	24/01/2022-04/02/2022
	1.3 Inclined angle theodolite traverse and angular measurement	16	February	2 <sup>nd</sup> -3 <sup>rd</sup>	07/02/2022-18/02/2022
	1.4 Fieldwork	16	February March	4 <sup>th</sup> 1 <sup>st</sup>	21/02/2022-04/03/2022
2.0 Setting Out for Construction Work	2.1 Introduction	4	March	2 <sup>nd</sup>	07/03/2022-14/03/2022
	2.2 Planning control	4			
	2.3 Height control	4	March	3 <sup>rd</sup>	14/03/2022-18/03/2022
	2.4 Vertical alignment control	4			
	2.5 Excavation control	4	March	4 <sup>th</sup>	21/03/2022-25/03/2022
	2.6 Movement measurement	4			
	2.7 Field practice	16	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022-08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022-14/04/2022

	<b>Mid-term Break</b>				15/04/2022-24/04/2022
	2.7 Field practice	8	April	4 <sup>th</sup>	25/04/2022-29/04/2022
3.0 Areas and Volumes	3.1 Areas	16	May	1 <sup>st</sup> -2 <sup>nd</sup>	02/05/2022-13//05/2022
	3.2 Areas by plan meter	8	May	3 <sup>rd</sup>	16/05/2022-20//05/2022
	3.3 Volumes	8	May	4 <sup>th</sup>	23/05/2022-27//05/2022
	3.4 Field practice	16	June June	1 <sup>st</sup> -2 <sup>nd</sup>	30/05/2022-10/06/2022
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
4.0 Introduction to Computer Aided Draughting (Cad)	4.1 Introduction to CAD	24	July August	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	25/07/2022-12/08/2022
	4.2 CAD application	24	August September	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup>	15/08/2022-02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022

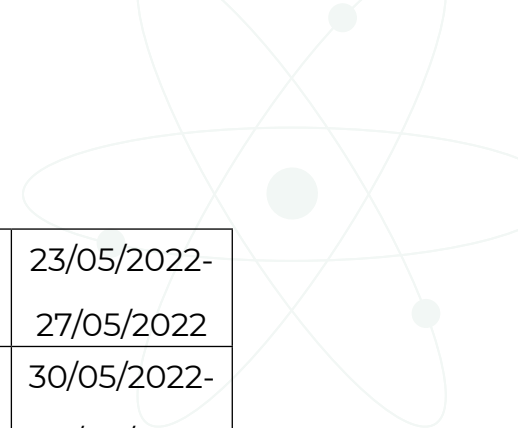




	<b>Mid-term Break</b>				10/09/2022- 25/09/2022
4.0 Introduction to Computer Aided Draughting (Cad)	4.3 CAD practice	32	Septem- ber  October	4 <sup>th</sup>  1 <sup>st</sup> -3 <sup>rd</sup>	26/09/2022- 21/10/2022
	<b>Preparation for Certificate of Secondary Education Examination</b>				24/10/2022- 28/10/2022

## Architectural Draughting Form 1

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
Baseline Course	Orientation course for form one		January February	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup> -4 <sup>th</sup>	17/01/2022 – 21/02/2022
1.0 Architectural Draughting	1.1 Introduction to architectural draughting	8	March	1 <sup>st</sup> -4 <sup>th</sup>	28/02/2022 – 25/03/2022
2.0 Architectural Draughting Occupational Information	2.1 Duties and roles of architect and draughting experts	4	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022- 08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/04/2022- 24/04/2022
2.0 Architectural Draughting Occupational Information	2.1 Duties and roles of architect and draughting experts	2	April	4 <sup>th</sup>	25/04/2022 -29/04/2022
	2.2 Relationship between architectural draughting and other civil engineering disciplines	2	May	1 <sup>st</sup>	02/05/2022 - 06/05/2022



	2.3 Types of drawing materials	2	May	4 <sup>th</sup>	23/05/2022- 27/05/2022
	2.4 Care of instruments	2	May June	4 <sup>th</sup> 1 <sup>st</sup>	30/05/2022- 03/06/2022
	2.5 Drawing office/studio	2	June	2 <sup>nd</sup>	06/06/2022- 10/06/2022
	<b>Terminal Assessment</b>				13/06/2022- 24/06/2022
	<b>First Term Break</b>				25/06/2022- 24/07/2022
	2.5 Drawing office/studio	4	July August	4 <sup>th</sup> 1 <sup>st</sup>	25/07/2022 -05/08/2022
3.0 Lettering	3.1 Need of lettering	2	August	2 <sup>nd</sup>	09/08/2022 -12/08/2022
	3.2 Letters appearance	2	August	3 <sup>rd</sup>	15/08/2022 -19/08/2022
	3.3 Lettering practices and styles	4	August September	4 <sup>th</sup> 1 <sup>st</sup>	22/08/2022- 02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022- 09/09/2022
	<b>Mid-term Break</b>				10/09/2022- 25/09/2022

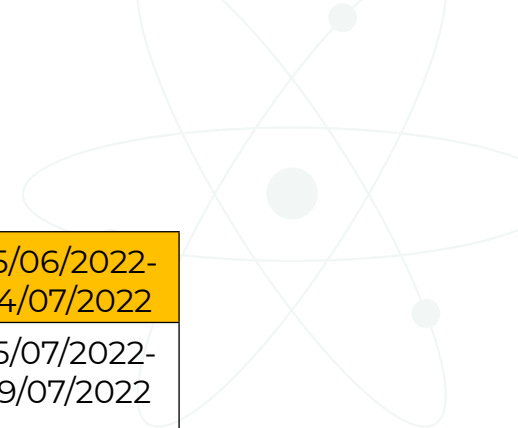


4. Layout of the Drawing Paper or Paper Formatting	4.1 International standard organization (ISO) sheet	4	September October	4 <sup>th</sup> 1 <sup>st</sup>	26/09/2022 -07/10/2022
5. Blending of Straight Lines and Curves	5.1 Straight lines at right angle	6	October	2 <sup>nd</sup> -4 <sup>th</sup>	10/10/2022 -28/10/2022
	5.2 Straight lines at any angle	6	October November	4 <sup>th</sup> 1 <sup>st</sup> -3 <sup>rd</sup>	31/10/2022- 18/11/2022
	5.3 Point and straight line	4	November December	4 <sup>th</sup> 1 <sup>st</sup>	21/11/2022 – 02/12/2022
	<b>Annual Assessment</b>				05/12/2022- 16/12/2022
	<b>End of Year Break</b>				17/12/2022

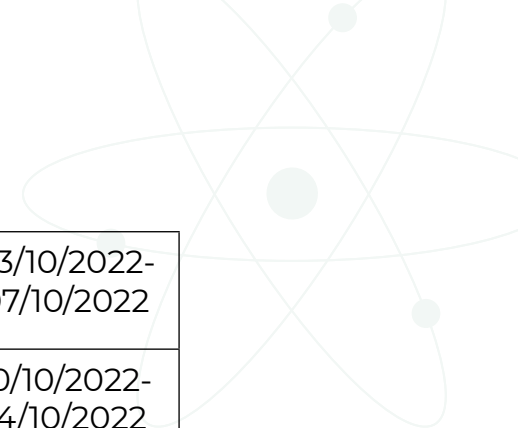
## Architectural Draughting Form 2

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Geometrical Figures	1.1 Meaning of geometric figures	08	January	3 <sup>rd</sup>	17/01/2022-21/01/2022
	1.2 Types of geometrical figures	08	January	4 <sup>th</sup>	24/01/2022-28/01/2022
	1.3 Construction of geometrical figures	16	January February	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	31/01/2022-11/02/2022
	1.4 Similar figures	08	February	3 <sup>rd</sup>	14/02/2022-18/02/2022
	1.5 Construction of similar figures	08	February	4 <sup>th</sup>	21/02/2022-25/02/2022
2.0 Dimensions	2.1 Purpose	08	February March	4 <sup>th</sup> 1 <sup>st</sup>	28/02/2022-04/03/2022
	2.2 Rules	08	March	2 <sup>nd</sup>	07/03/2022-11/03/2022
	2.3 Types	16	March	3 <sup>rd</sup> -4 <sup>th</sup>	14/03/2022-25/03/2022
3.0 Scales	3.1 Definition of scale	08	March	4 <sup>th</sup>	28/03/2022-
	3.2 Materials and shapes		April	1 <sup>st</sup>	01/04/2022

	3.3 Scale calibration	8	April	1 <sup>st</sup>	04/04/2022-08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022-14/04/2022
	<b>Mid-term Break</b>				11/04/2022-14/04/2022
	3.4 Reading and application of scales	8	April	4 <sup>th</sup>	25/04/2022-29/04/2022
4.0 Orthographic Projection	4.1 Purpose	08	May	1 <sup>st</sup>	02/05/2022-06/05/2022
	4.2 Principal planes	4	May	2 <sup>nd</sup>	09/05/2022-13/05/2022
	4.3 Types	4			
	4.4 First angle projection	16	May	3 <sup>rd</sup> -4 <sup>th</sup>	16/05/2022-27/05/2022
	4.5 Third angle projection	08	May June	4 <sup>th</sup> 1 <sup>st</sup>	30/05/2022-03/06/2022
	4.6 Conventional symbols of first and third angle projections Conventional symbols of first and third angle projections	8	June	2 <sup>nd</sup>	06/06/2022-10/06/2022
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022



	<b>First Term Break</b>				25/06/2022- 24/07/2022
4.0 Orthographic Projection	4.7 Conventional symbols of first and third angle projections	8	July	4 <sup>th</sup>	25/07/2022- 29/07/2022
5.0 Points, Lines and Planes in Space	5.1 Need for points, lines and planes in space	08	August	1 <sup>st</sup>	01/08/2022- 05/08/2022
6.0 Auxiliary Views	6.1 Purpose	08	August	2 <sup>nd</sup>	09/08/2022- 12/08/2022
	6.2 Types	16	August	3 <sup>rd</sup> -4 <sup>th</sup>	15/08/2022- 26/08/2022
7.0 Pictorial Drawing	7.1 Definition	8	August September	4 <sup>th</sup> 1 <sup>st</sup>	29/08/2022- 02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022- 09/09/2022
	<b>Mid-term Break</b>				10/09/2022- 25/09/2022
7.0 Pictorial Drawing	7.2 Definition	8	September	4 <sup>th</sup>	26/09/2022- 30/09/2022

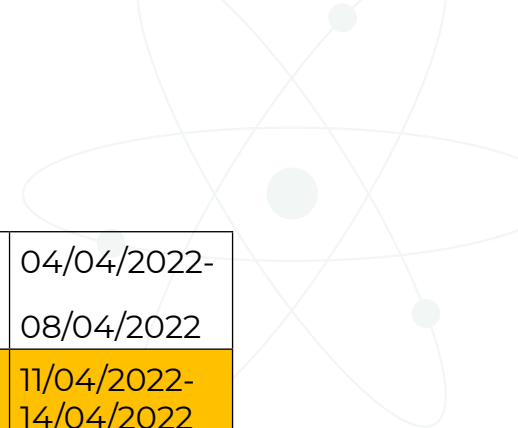


	7.3 Methods	08	October	1 <sup>st</sup>	03/10/2022- 07/10/2022
	7.4 Construction of different projections	08	October	2 <sup>nd</sup>	10/10/2022- 14/10/2022
8.0 Perspective Drawing	8.1 The concept – photo taking and photography – free hand sketching  8.2 One point perspective and two points perspective drawing	2  6	October	3 <sup>rd</sup>	17/10/2022- 21/10/2022
	<b>Preparations for FTNA</b>				24/10/2022- 28/10/2022

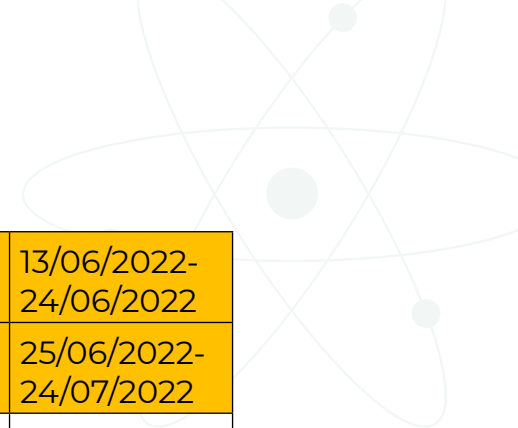


## Architectural Draughting Form 3

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Residential (dwelling) House Development	1.1 House requirements	8	January	3 <sup>rd</sup>	17/01/2022-21/01/2022
	1.2 Main residential house areas	08	January	4 <sup>th</sup>	24/01/2022 – 28/01/2022
	1.3 Size, shape and functions of rooms	08	January February	4 <sup>th</sup> 1 <sup>st</sup>	31/01/2022-04/02/2022
	1.4 Principles of design	16	February	2 <sup>nd</sup> -3 <sup>rd</sup>	07/02/2022-18/02/2022
2.0 Floor Plan	2.1 Development of floor plan	08	February	4 <sup>th</sup>	21/02/2022-25/02/2022
	2.2 Dimensions, annotations and labelling	08	March	1 <sup>st</sup>	28/02/2022-04/03/2022
3.0 Foundation	3.1 Drawing of foundation plan	16	March	2 <sup>nd</sup> -3 <sup>rd</sup>	07/03/2022-18/03/2022
	3.2 Dimensions and annotations of foundation plan	08	march	4 <sup>th</sup>	21/03/2022-25/03/2022
4.0 Roofs	4.1 Roof plan	08	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022-01/04/2022



	4.2 Single and double roof	08	April	1 <sup>st</sup>	04/04/2022- 08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/04/2022- 24/04/2022
4.0 Roofs	4.3 Eaves, ridge, collar and spar	08	April	4 <sup>th</sup>	25/05/2022- 29/05/2022
	4.4 Dimensioning and labeling	08	May	1 <sup>st</sup>	02/05/2022- 06/05/2022
5.0 Sections	5.1 Uses of sections	08	May	2 <sup>nd</sup>	09/05/2022- 13/05/2022
	5.2 Types of sections	08	May	3 <sup>rd</sup>	16/05/2022- 20/05/2022
	5.3 Cutting plane and viewing directions	08	May	4 <sup>th</sup>	23/05/2022- 27/05/2022
6.0 Elevations	6.1 General information	08	June	4 <sup>th</sup> 1 <sup>st</sup>	30/05/2022- 03/06/2022
	6.2 Drawing of elevations	08	June	2 <sup>nd</sup>	06/06/2022- 10/06/2022



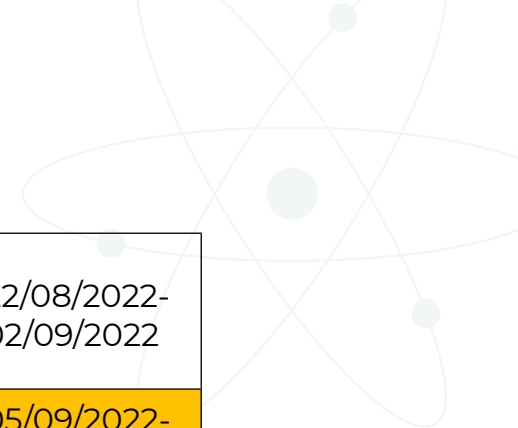
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First term Break</b>				25/06/2022-24/07/2022
7.0 Doors	7.1 Door types	08	July	4 <sup>th</sup>	25/07/2022-29/07/2022
	7.2 Details to vertical and horizontal section	16	August	1 <sup>st</sup> -2 <sup>nd</sup>	01/08/2022-12/08/2022
	7.3 Conventional symbols	08	August	3 <sup>rd</sup>	15/08/2022-19/08/2022
	7.4 Dimensioning and labeling	08	August	4 <sup>th</sup>	22/08/2022-26/08/2022
8.0 Windows	8.1 Types of windows 8.2 Details to vertical and horizontal section	08	August September	4 <sup>th</sup> 1 <sup>st</sup>	29/08/2022-02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022
	<b>Mid-term Break</b>				10/09/2022-25/09/2022
8.0 Windows	8.3 Dimensioning and labeling	16	September October	4 <sup>th</sup> 1 <sup>st</sup>	26/09/2022-07/10/2022

9.0 Stairs and Staircases	9.1 General information on stairs and staircases	08	October	2 <sup>nd</sup>	10/10/2022-14/10/2022
	9.2 Plan and section	08	October	3 <sup>rd</sup>	17/10/2022-21/10/2022
	9.3 Details	08	October	4 <sup>th</sup>	24/10/2022-28/10/2022
	9.4 Dimensioning and labeling	08	October November	4 <sup>th</sup> 1 <sup>st</sup>	31/10/2022-04/11/2022
10.0 Electrical Supply and Distribution	10.1 Symbols and conventions for electrical supply and distribution	08	November	2 <sup>nd</sup>	07/11/2022-11/11/2022
11.0 Fire Places and Flues	11.1 Location, requirements and regulations of fire places	08	November	3 <sup>rd</sup>	14/11/2022-18/11/2022
	11.2 Elevations, plans and sections	08	November	4 <sup>th</sup>	21/11/2022-25/11/2022
	11.3 Detail 11.4 Dimensioning and labeling	08	November December	4 <sup>th</sup> 1 <sup>st</sup>	28/11/2022-02/12/2022
	<b>Annual Assessment</b>				05/12/2022-16/12/2022
	<b>End of Year Break</b>				17/12/2022

## Architectural Draughting Form 4

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Water Supply	1.1 Conversions symbols	08	January	3 <sup>rd</sup>	17/01/2022-21/01/2022
2.0 Drainage System	2.1 Drawing elements of drainage	16	January February	4 <sup>th</sup> 1 <sup>st</sup>	24/01/2022 – 04/02/2022
	2.2 Drainage types and layout system	08	February	2 <sup>nd</sup>	07//02/2022-11/02/2022
	2.3 Elevations, plan and section of drainage system	16	February	3 <sup>rd</sup> -4 <sup>th</sup>	14/02/2022-21/02/2022
3.0 Building Specifications	3.1 Definition	08	February March	4 <sup>th</sup> 1 <sup>st</sup>	28/02/2022-04/02/2022
	3.2 Relationship with drawing	08	March	2 <sup>nd</sup>	07/03/2022-11/03/2022
	3.3 Preparation of building specification	16	March	3 <sup>rd</sup> -4 <sup>th</sup>	14/03/2022 25/03/2022
4.0 Reproduction and Storage of Drawings	4.1 Introduction and equipment for reproduction drawings	08	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022-01/04/2022
	4.2 Drawing materials	08	April	1 <sup>st</sup>	04/04/2022-08/04/2022

	<b>Mid-term Assessment</b>				11/04/2022-14/04/2022
	<b>Mid-term Break</b>				15/04/2022-24/04/2022
4. Reproduction and Storage of Drawings	4.3 Reproduction technique	16	April May	4 <sup>th</sup> 1 <sup>st</sup>	25/04/2022-06/05/2022
	4.4 Storage of drawings	08	May	2 <sup>nd</sup>	09/05/2022-13/05/2022
5.0 Computer Aided Draughting (CAD)	5.1 Introduction to auto CAD	32	May June	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	16/05/2022-10/06/2022
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
	5.1 Introduction to auto CAD	16	July August	4 <sup>th</sup> 1 <sup>st</sup>	25/07/2022-05/08/2022
	5.2 Application of auto CAD in drawing	16	August	2 <sup>nd</sup> -3 <sup>rd</sup>	09/08/2022-19/08/2022




	5.3 Introduction to ArchiCAD	16	August September	4 <sup>th</sup> 1 <sup>st</sup>	22/08/2022- 02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022- 09/09/2022
	<b>Mid-term Break</b>				10/09/2022- 25/09/2022
	5.4 ArchiCAD working environment	08	September	4 <sup>th</sup>	26/09/2022- 30/09/2022
	5.5 Application of ArchiCAD in draughting	08	October	1 <sup>st</sup>	03/10/2022- 07/10/2022
6	Passive Regulated House Development	08	October	2 <sup>nd</sup>	10/10/2022- 14/10/2022
	6.1 Concept of passive regulated house 6.2 Factors affecting comfort within buildings	08	October	2 <sup>nd</sup>	10/10/2022- 14/10/2022
	6.3 Climate influence on human comfort zone 6.4 Development of passive cooled/ warmed/ heated house in various climatic zones in Tanzania/ Tropics	08	October	3 <sup>rd</sup>	17/10/2022- 21/10/2022
	<b>Preparation for/and the National Examination</b>				24/10/2022- 28/11/2022

## Woodwork and Painting Engineering Form 1

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
	<b>Orientation Course</b>		January February	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup> -4 <sup>th</sup>	17/01/2022- 25/02/2022
1.0 Introduction to Painting	1.1 Painting trade	4	February March	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	28/02/2022- 11/03/2022
	1.2 Painting and paints development	2	March	3 <sup>rd</sup>	14/03/2022- 18/03/2022
	1.3 Painting importance	2	March	4 <sup>th</sup>	21/03/2022- 25/03/2022
2.0 Workshop Orientation	2.1 Introduction to woodwork workshop	4	March/April April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022- 08/04/2022
	Mid-term Assessment		March		11/04/2022- 14/04/2022
	Mid-term Break		March April		15/04/2022- 24/04/2022



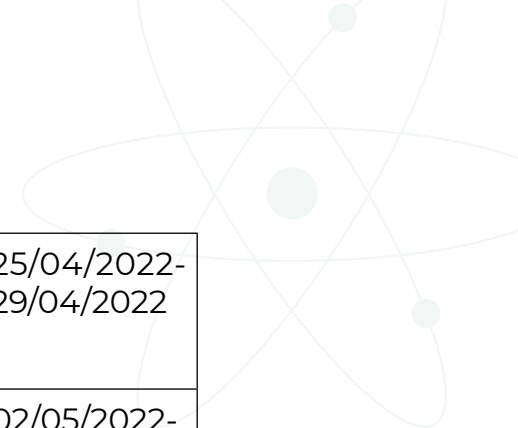
Main Topic	Sub Topic	Number of Periods	Month	Week	Date
2.0 Workshop Orientation	2.2 Workshops tools, equipment and machines	10	April May	4 <sup>th</sup> 1 <sup>st</sup> - 4 <sup>th</sup>	25/04/2022- 27/05/2022
	2.3 Workshop practice	4	May June	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	30/05/2022- 10/06/2022
	Terminal Assessment				13/06/2022- 24/06/2022
	First Term Break				25/06/2022- 24/07/2022
	2.3 Workshop practice	12	July August September	4 <sup>th</sup> 1 <sup>st</sup> -4 <sup>th</sup> 1 <sup>st</sup>	25/07/2022- 02/09/2022
	Mid-term Assessment				05/09/2022- 09/09/2022
	Mid-term Break				10/09/2022- 25/09/2022
3.0 Safety Rules and Management	3.1 Personal safety rules and management	10	September October	4 <sup>th</sup> 1 <sup>st</sup> -4 <sup>th</sup>	26/09/2022- 28/10/2022



Main Topic	Sub Topic	Number of Periods	Month	Week	Date
	3.2 Workshop safety rules and management	6	October November	4 <sup>th</sup> 2 <sup>nd</sup> -3 <sup>rd</sup>	31/10/2022- 18/11/2022
	3.3 Accidents management	4	November December	4 <sup>th</sup> 1 <sup>st</sup>	21/11/2022- 02/12/2022
	Annual Assessment				05/12/2022- 16/12/2022
	End of Year Break				17/12/2022

## Woodwork and Painting Engineering Form 2

Main Topic	Sub Topic	Number of Periods		Month	Week	Date
1.0 Painting Materials	1.1 Composition of paints	20	12	January February	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	17/01/2022- 11/02/2022
	1.2 Characteristic of paints					
	1.3 Selection of paints	10	14	February March	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup>	14/02/2022- 04/03/2022
	1.4 Mixing and application of paints					
2.0 Colour	2.1 Colour circle	16		March	2 <sup>nd</sup> -3 <sup>rd</sup>	07/03/2022- 18/03/2022
	2.2 Colour scheme	16		March April	4 <sup>th</sup> 1 <sup>st</sup>	21/03/2022- 01/04/2022
3.0 Water Paints	3.1 Water paints and distemper	8		April	1 <sup>st</sup>	04/04/2022- 08/04/2022
	Mid-term Assessment			March		11/04/2022- 14/04/2022
	Mid-term Break			March April		15/04/2022- 24/04/2022



3.0 Water Paints	3.1 Water paints and distemper	8	April	4 <sup>th</sup>	25/04/2022- 29/04/2022
	3.2 Texture of paints, stains and staining	16	May	1 <sup>st</sup> -2 <sup>nd</sup>	02/05/2022- 13/05/2022
	3.3 Varnish and polish	16	May	3 <sup>rd</sup> -4 <sup>th</sup>	16/05/2022- 27/05/2022
	3.4 Cellulose finishes and decorative effects	8	May June	4 <sup>th</sup> 1 <sup>st</sup>	30/05/2022- 03/06/2022
4.0 Tie and Dying	4.1 Patterns design	8	June	2 <sup>nd</sup>	06/06/2022- 10/06/2022
	Terminal Assessment				13/06/2022- 24/06/2022
	First Term Break				25/06/2022- 24/07/2022
4.0 Tie and Dying	4.1 Patterns design	8	July	4 <sup>th</sup>	25/07/2022- 29/07/2022
	4.2 Mixing and application of dyes	8	August	1 <sup>st</sup>	01/08/2022- 05/08/2022

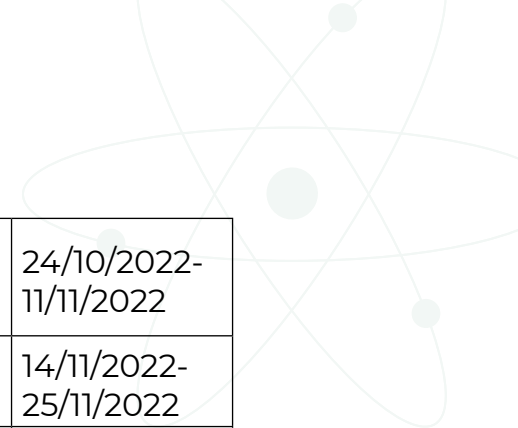


5.0 Spraying and Spray Equipment	5.1 Spraying and spray equipment	8	August	2 <sup>nd</sup>	09/08/2022-12/08/2022
6.0 Sign Writing and Stenciling	6.1 Tools for sign writing and stenciling	8	September	3 <sup>rd</sup>	15/08/2022-19/08/2022
7.0 Oil Paint	7.1 Constituents of oil paints	8	August	4 <sup>th</sup>	22/08/2022-26/08/2022
8.0 Functional Requirement of Paints	8.1 Characteristic of good ideal paints	8	August September	4 <sup>th</sup> 1 <sup>st</sup>	29/08/2022-02/09/2022
	Mid-term Assessment				05/09/2022-09/09/2022
	Mid-term Break				10/09/2022-25/09/2022
8.0 Functional Requirement of Paints	8.2 Paint defects	8	September	4 <sup>th</sup>	26/09/2022-30/09/2022
9.0 Painting Techniques	9.1 Preparation and painting system	16	October	1 <sup>st</sup> -2 <sup>nd</sup>	03/10/2022-14/10/2022
	10.1 Materials and application 10.2 Surface preparation	4 4	October	3 <sup>rd</sup>	17/10/2022-21/10/2022
	Preparations for FTNA		October		24/10/2022-28/10/2022

### Woodwork and Painting Engineering Form 3

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Timber	1.1 Types of trees	16	January	3 <sup>rd</sup> -4 <sup>th</sup>	17/01/2022-28/01/2022
	1.2 Timber conversion	16	February	1 <sup>st</sup> -2 <sup>nd</sup>	31/01/2022-11/02/2022
	1.3 Seasoning	16	February	3 <sup>rd</sup> -4 <sup>th</sup>	14/02/2022-25/02/2022
	1.4 Preservation and storage	24	February March	4 <sup>th</sup> 2 <sup>nd</sup> -3 <sup>rd</sup>	28/02/2022-18/03/2022
	1.5 Defects of timber	8	March	4 <sup>th</sup>	21/03/2022-25/03/2022
2.0 Truing Up Wood	2.1 Selection of wood	16	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022-08/04/2022
	Mid-term Assessment		March		22/03/2022-25/03/2022
	Mid-term Break		March April		11/04/2022-14/04/2022
2.0 Truing Up Wood	2.2 Preparation of wood	16	April May	4 <sup>th</sup> 1 <sup>st</sup>	25/04/2022-06/05/2022

3.0 Adhesives	3.1 Types and uses of glue	8	May	2 <sup>nd</sup>	09/05/2022-13/05/2022
	3.2 Use of glue	16	May	3 <sup>rd</sup> -4 <sup>th</sup>	16/05/2022-27/05/2022
4.0 Iron Mongery	4.1 Types of joints and their uses	16	May June	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	30/05/2022-10/06/2022
	Terminal Assessment				13/06/2022-24/06/2022
	First Term Break				25/06/2022-24/07/2022
4.0 Iron Mongery	4.2 Introduction to iron monger 4.3 Process of iron monger	4 4	July	4 <sup>th</sup>	25/07/2022-29/07/2022
5.0 Furniture	5.1 Furniture making	16	August	1 <sup>st</sup> -2 <sup>nd</sup>	01/08/2022-12/08/2022
6.0 Temporary Support	6.1 Scaffolds	8	August	3 <sup>rd</sup>	15/08/2022-19/08/2022
	6.2 Shoring	16	August September	4 <sup>th</sup> 1 <sup>st</sup>	22/08/2022-02/09/2022
	Mid-term Assessment				05/09/2022-09/09/2022
	Mid-term Break				10/09/2022-25/09/2022
	6.3 Timbering to trenches	32	September October	4 <sup>th</sup> 1 <sup>st</sup> -3 <sup>rd</sup>	26/09/2022-21/10/2022



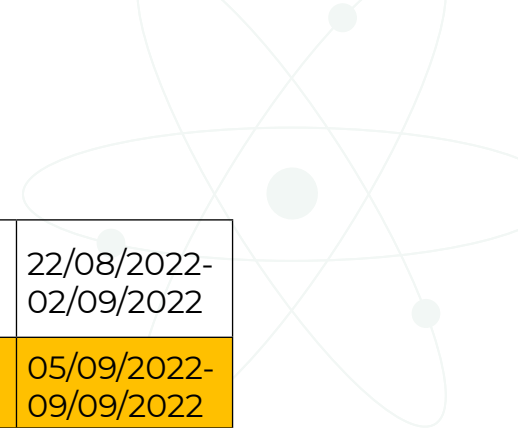
	6.4 Formwork	24	October November	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	24/10/2022- 11/11/2022
	6.5 Centering	16	November	3 <sup>rd</sup> -4 <sup>th</sup>	14/11/2022- 25/11/2022
	6.6 Partition	8	November December	4 <sup>th</sup> 1 <sup>st</sup>	28/11/2022- 02/12/2022
	Annual Assessment				05/12/2022- 16/12/2022
	End of Year Break				17/12/2022



## Woodwork and Painting Engineering Form 4

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Doors and Windows	1.1 Introduction to doors	8	January	3 <sup>rd</sup>	17/01/2022-21/01/2022
	1.2 Door frame	8	January	4 <sup>th</sup>	24/01/2022-28/01/2022
	1.3 Door shutters	8	January February	4 <sup>th</sup> 1 <sup>st</sup>	31/01/2022-04/02/2022
	1.4 Door lining and casing	8	February	2 <sup>nd</sup>	07/02/2022-11/02/2022
	1.5 Introduction to windows	8	February	3 <sup>rd</sup>	14/02/2022-18/02/2022
	1.6 Window frames	8	February	4 <sup>th</sup>	21/02/2022-25/02/2022
	1.7 Window shutters	16	February March	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	28/02/2022-11/03/2022
	1.8 Glazing and louvers	16	March	3 <sup>rd</sup> -4 <sup>th</sup>	14/03/2022-25/03/2022
2.0 Roofs	2.1 Structural members of roof	16	April April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022-08/04/2022
	Mid-term Assessment				11/04/2022-14/04/2022

	Mid-term Break				15/04/2022-24/04/2022
2.0 Roofs	2.2 Types of roofs	8	April	4 <sup>th</sup>	25/04/2022-29/04/2022
	2.3 Construction of different types of roofs	8	May	1 <sup>st</sup>	02/05/2022-06/05/2022
	2.4 Roof covering materials	8	May	2 <sup>nd</sup>	09/05/2022-13/05/2022
	2.5 Treatment of roof skeleton (members) and roof covering	8	May	3 <sup>rd</sup>	16/05/2022-20/05/2022
	2.6 Eaves	8	May	4 <sup>th</sup>	23/05/2022-27/05/2022
	2.7 Connectors	16	May June	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	30/05/2022-10/06/2022
	Terminal Assessment				13/06/2022-24/06/2022
	First Term Break				25/06/2022-24/07/2022
3.0 Ceiling	3.1 Framework fixing	8	July	4 <sup>th</sup>	25/07/2022-29/07/2022
	3.2 Board fixing	8	August	1 <sup>st</sup>	01/08/2022-05/08/2022
4.0 Wooden Floors	4.1 Types of wooden floors	16	August	2 <sup>nd</sup> -3 <sup>rd</sup>	09/08/2022-19/08/2022



	4.2 Construction of wooden floors	16	August September	4 <sup>th</sup> 1 <sup>st</sup>	22/08/2022- 02/09/2022
	Mid-term Assessment				05/09/2022- 09/09/2022
	Mid-term Break				10/09/2022- 25/09/2022
5.0 Wooden Stairs and Stair Case	5.1 Introduction	16	September October	4 <sup>th</sup> 1 <sup>st</sup>	26/09/2022- 07/10/2022
	5.2 Functions and design for construction of wooden stairs	16	October	2 <sup>nd</sup> -3 <sup>rd</sup>	10/10/2022- 21/10/2022
	Preparations for CSEE				24/10/2022- 28/10/2022

## Mechanical Engineering Form 1

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
	Orientation course		January February	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup> -4 <sup>th</sup>	17/01/2022- 25/02/2022
1.0 Introduction to Science, Engineering and Technology	1.1 Basic terms used in mechanical engineering	2	January February	4 <sup>th</sup> 1 <sup>st</sup>	28/02/2022- 04/03/2022
	1.2 Relationship between science, engineering and technology	2	March	2 <sup>nd</sup>	07/03/2022- 11/03/2022
	1.3 Mechanical engineering applications	2	March	3 <sup>rd</sup>	14/03/2022- 18/03/2022
2.0 Mechanical Engineering Jobs and Occupations	2.1 Types of mechanical engineering professionals	2	March	4 <sup>th</sup>	21/03/202- 25/03/2022
	2.2 Duties and functions of engineering personnel	4	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022- 08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/04/2022- 24/04/2022

	2.3 The importance of mechanical engineering Field in a Society	2	April	4 <sup>th</sup>	25/04/2022-29/04/2022
3.0 Workshop Management and Safety Rules	3.1 Introduction to workshop rules and safety	4	May	1 <sup>st</sup> -2 <sup>nd</sup>	02/05/2022-13/05/2022
	3.2 Accidents causes and prevention	4	May	3 <sup>rd</sup> -4 <sup>th</sup>	16/05/2022-27/05/2022
	3.3 Management of accidents	2	May June	4 <sup>th</sup> 1 <sup>st</sup>	30/05/2022-03/06/2022
4.0 Workshop Tools and Equipment	4.1 Tools and equipment used in mechanical engineering workshop	2	June	2 <sup>nd</sup>	06/06/2022-10/06/2022
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
4.0 Workshop Tools and Equipment	4.1 Tools and equipment used in mechanical engineering workshop	6	July August	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	25/07/2022-12/08/2022
	4.2 Use of mechanical tools and equipment	4	August	3 <sup>rd</sup> – 4 <sup>th</sup>	15/08/2022-26/08/2022

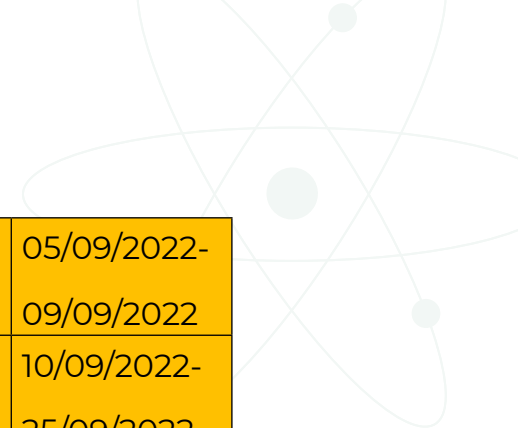
5.0 Engineering Drawing I	5.1 Introduction to engineering drawing	2	August September	4 <sup>th</sup> 1 <sup>st</sup>	29/08/2022- 02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022- 09/09/2022
	<b>Mid-term Break</b>				10/09/2022- 25/09/2022
	5.2 Drawing office tools	2	September	4 <sup>th</sup>	26/09/2022- 30/09/2022
	5.3 International standard organization (ISO) sheet layout and sketching	4	October	1 <sup>st</sup> -2 <sup>nd</sup>	03/10/2022- 14/10/2022
	5.4 Construction of geometric figures	6	October November	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup>	17/10/2022- 11/11/2022
	5.5 Similar figures	6	November	2 <sup>nd</sup> -4 <sup>th</sup>	14/11/2022- 25/12/2022
	<b>Annual Assessment</b>				05/12/2022- 16/12/2022
	<b>End of Year Break</b>				17/12/2022

## Mechanical Engineering Form 2

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Engineering Materials	1.1 Introduction to engineering materials (Metals and non metals)	24	January February	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup>	17/01/2022- 04/02/2022
	1.2 Engineering materials properties	16	February	2 <sup>nd</sup> -3 <sup>rd</sup>	07/02/2022- 18/02/2022
	1.3 Production of engineering materials - Metals (Ferrous and non-ferrous metals)	16	February March	4 <sup>th</sup> 1 <sup>st</sup>	21/02/2022- 04/03/2022
	1.4 Production of engineering Materials - Non Metals	24	March	2 <sup>nd</sup> -4 <sup>th</sup>	07/03/2022- 25/03/2022
2.0 Metal Work Technology	2.1 Hand tools and measuring tools	16	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022- 08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/04/2022- 24/04/2022

2.0 Metal Work Technology	2.1 Hand tools and measuring tools	16	April May	4 <sup>th</sup> 1 <sup>st</sup>	25/04/2022- 06/05/2022
	2.2 Metal joining process	8	May	2 <sup>nd</sup>	09/05/2022- 13/05/2022
	2.3 Electric arc welding	16	May	3 <sup>rd</sup> -4 <sup>th</sup>	16/05/2022- 27/05/2022
	2.4 Gas welding	8	May June	4 <sup>th</sup> 1 <sup>st</sup>	30/05/2022- 03/06/2022
	2.5 Simple machine tools	8	June	2 <sup>nd</sup>	06/06/2022- 10/06/2022
	<b>Terminal Assessment</b>				13/06/2022- 24/06/2022
	<b>First Term Break</b>				25/06/2022- 24/07/2022
	2.5 Simple machine tools	16	July August	4 <sup>th</sup> 1 <sup>st</sup>	25/07/2022- 05/08/2022
3.0 Engineering Drawing II	3.1 Pictorial drawing (Oblique, Isometric)	32	August August September	2 <sup>nd</sup> -4 <sup>th</sup> 1 <sup>st</sup>	09/08/2022- 02/09/2022





	<b>Mid-term Assessment</b>				05/09/2022- 09/09/2022
	<b>Mid-term Break</b>				10/09/2022- 25/09/2022
	3.2 Scales	8	September	4 <sup>th</sup>	26/09/2022- 30/09/2022
	3.3 Dimensioning and symbols	8	October	1 <sup>st</sup>	03/10/2022- 07/10/2022
	3.4 Free hand sketching	8	October	2 <sup>nd</sup>	10/10/2022- 14/10/2022
	3.5 Intersections of cylinders	8	October	3 <sup>rd</sup>	17/10/2022- 21/10/2022
	<b>Preparations for FTNA</b>				24/10/2022- 28/10/2022
	<b>End of Year Break</b>				17/12/2022

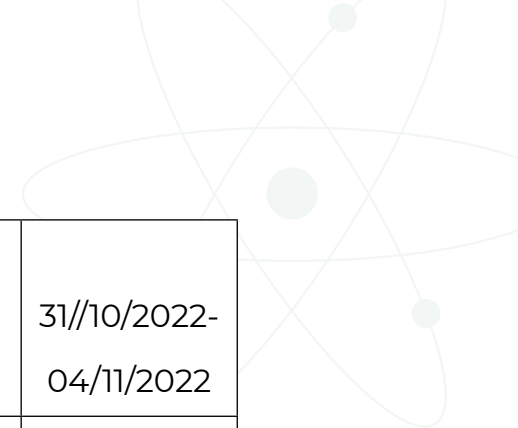
### Mechanical Engineering Form 3

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Automotive Engineering	1.1 Introduction to automotive engineering	8	January	3 <sup>rd</sup>	17/01/2022-21/01/2022
2.0 Automobile Engine Technology	2.1 Engine main parts	8	January	4 <sup>th</sup>	24/01/2022-28/01/2022
	2.2 Engines and characteristics	8	January February	4 <sup>th</sup> 1 <sup>st</sup>	31/01/2022-04/02/2022
	2.3 Two-stroke engine (Spark ignition and compression ignition)	8	February	2 <sup>nd</sup>	07/02/2022-11/02/2022
	2.4 Four-stroke engine (Spark ignition and compression ignition)	8	February	3 <sup>rd</sup>	14/02/2022-18/02/2022
	2.5 Rotary engine (Introduction)	8	February	4 <sup>th</sup>	21/02/2022-25/02/2022
3.0 Automotive Systems I	3.1 Safety and warning devices	4	February	4 <sup>th</sup>	28/02/2022-04/03/2022
	3.2 The clutch	4	March	1 <sup>st</sup>	
	3.3 The gear box	16	March	2 <sup>nd</sup> -3 <sup>rd</sup>	07/03/2022-18/03/2022

	3.4 Fluid flywheel and torque converters	4	March	4 <sup>th</sup>	21/03/2022-25/03/2022
	3.5 Automotive body and chassis	4			
	3.6 Power train arrangements	4	March	4 <sup>th</sup>	28/03/2022-01/04/2022
	3.7 The Propeller/drive shaft and joints	4	April	1 <sup>st</sup>	
	3.8 The final drive	8	April	1 <sup>st</sup>	
	<b>Mid-term Assessment</b>				11/04/2022-14/04/2022
	<b>Mid-term Break</b>				15/04/2022-24/04/2022
4.0 Tools and Equipment	4.1 Tightening tools	8	April	4 <sup>th</sup>	25/04/2022-29/04/2022
	4.2 Removing and refitting tools	4	May	1 <sup>st</sup> -2 <sup>nd</sup>	02/05/2022-13/05/2022
	4.3 Testing and diagnostic tools	8			
	4.4 Lifting equipment	4			
5.0 Pneumatic and Hydraulic Principles	5.1 Pneumatic principles	4	May	3 <sup>rd</sup> -4 <sup>th</sup>	16/05/2022-27/05/2022
	5.2 Hydraulic principles	8			
	5.3 Hydraulic and pneumatic symbols	4			

	5.4 Hydraulic and pneumatic circuits	8	May June	4 <sup>th</sup> 1 <sup>st</sup>	30/05/2022- 03/06/2022
6.0 Refrigeration and Air Conditioning	6.1 Principles of refrigeration	8	June	2 <sup>nd</sup>	06/06/2022- 10/06/2022
	<b>Terminal Assessment</b>				13/06/2022- 24/06/2022
	<b>First Term Break</b>				25/06/2022- 24/07/2022
	6.2 Introduction to air condition 6.3 Compressor	4 4	July	4 <sup>th</sup>	25/07/2022- 29/07/2022
	6.4 Evaporator and coolers 6.5 Condensers	4 4	August	1 <sup>st</sup>	01/08/2022- 05/08/2022
	6.6 Refrigerants and controls 6.7 Piping and oil management	4 4	August	2 <sup>nd</sup>	09/08/2022- 12/08/2022
	6.8 Ducting and Insulation 6.9 Tools and equipment for refrigeration and air conditioning 6.10 Refrigerants	4 8 4	August	3 <sup>rd</sup> -4 <sup>th</sup>	15/08/2022- 26/08/2022

	6.11 Refrigeration cycles 6.12 Principle of air conditioning	4 4	August	4 <sup>th</sup>	29/08/2022- 02/09/2022
	<b>Mid-term Assessment</b>				<b>05/09/2022- 09/09/2022</b>
	<b>Mid-term Break</b>				<b>10/09/2022- 25/09/2022</b>
	6.11 Refrigeration cycles 6.12 Principle of air conditioning	4 4	September	4 <sup>th</sup>	26/09/2022- 30/09/2022
7.0 Engineering Drawing III	7.1 Orthographic projection	16	October	1 <sup>st</sup> -2 <sup>nd</sup>	03/10/2022- 14/10/2022
	7.2 LOCI (Mechanisms)	8	October	2 <sup>nd</sup>	17/10/2022- 21/10/2022
	7.3 Auxiliary views 7.4 Developments of mechanical components	4 4	October	4 <sup>th</sup>	24/10/2022- 28/10/2022



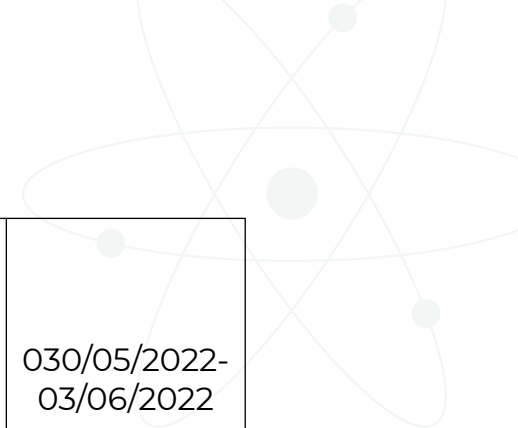
	7.5 Section 7.6 Limits and fits	4 4	November	1 <sup>st</sup>	31//10/2022- 04/11/2022
8.0 Introduction to CAD I	8.1 Introduction to CAD I  8.2 CAD Software and hardware	4 4	November	2 <sup>nd</sup>	07/11/2022- 11/11/2022
	8.3 CAD Application	24	November December	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup>	14/11/2022- 02/12/2022
	<b>Annual Assessment</b>				05/12/2022- 16/12/2022
	<b>End of Year Break</b>				17/12/2022

## Mechanical Engineering Form 4

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Engine Systems	1.1 Lubrication system	4	January	3 <sup>rd</sup>	17/01/2022-21/01/2022
	1.2 Fuel air and exhaust system for compression ignition engines (CI) and spark ignition engines (SI)	4			
	1.3 Fuel system (Feed pumps)	4	January	4 <sup>th</sup>	24/01/2022-28/01/2022
	1.4 Fuel system (Injectors)	4			
	1.5 Ignition system for SI engines	4	February	1 <sup>st</sup>	31/01/2022-04/02/2022
	1.6 Charging system	4			
	1.7 Engine cooling system	4	February	2 <sup>nd</sup>	07/02/2022-11/02/2022
	1.8 Engine sensors and computer control modules	3			
	1.9 Alternative fuels	1			
2.0 Automotive Systems II	2.1 Suspension systems	8	February	3 <sup>rd</sup>	14/02/2022-18/02/2022
	2.2 Braking systems	8	February	4 <sup>th</sup>	21/02/2022-25/02/2022
	2.3 Steering system	8	February	1 <sup>st</sup>	28/02/2022-04/03/2022
	2.4 Steering joints	4	March	2 <sup>nd</sup>	07/03/2022-11/03/2022
	2.5 Steering box	4			

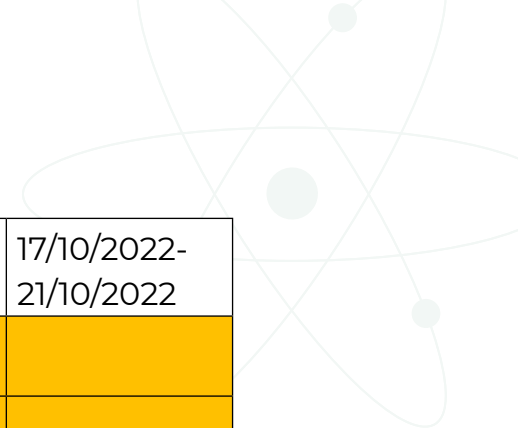
	2.6 Tyres	8	March	3 <sup>rd</sup>	14/03/2022-18/03/2022
	2.7 Wheel 2.8 Vehicle safety system and accidents	6 2	March	4 <sup>th</sup>	21/03/2022-25/03/2022
3.0 Power and Energy	3.1 Sources of energy	8	March	4 <sup>th</sup>	28/03/2022-01/04/2022
	3.2 Energy harnessing technology	8	April	1 <sup>st</sup>	04/04/2022-08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022-14/04/2022
	<b>First Term Break</b>				15/04/2022-24/04/2022
4.0 Automotive Electric System	4.1 Auto electric system	8	April	4 <sup>th</sup>	25/04/2022-29/04/2022
	4.2 Auto-electric symbols 4.3 Fundamentals of electronics	4 4	May	1 <sup>st</sup>	02/05/2022-06/05/2022
	4.4 Auto-Electric circuits 4.5 Printed circuits board PCB	4 4	May	2 <sup>nd</sup>	09/05/2022-13/05/2022
	4.6 Faults in auto-Electrics system	8	May	3 <sup>rd</sup>	16/05/2022-20/05/2022
	4.7 Repair and maintenance of auto - Electric system	8	May	4 <sup>th</sup>	23/05/2022-27/05/2022





5.0 Automotive Auxiliary System	5.1 Overview of auto-electric auxiliary parts	2	June	1 <sup>st</sup>	03/05/2022-03/06/2022
	5.2 Auxiliary systems (Gauges and Meters)	2			
	5.3 Alarms and horns	2			
	5.4 Wind screenwipers	2			
6.0 Maintenance Practice	6.1 Introduction to maintenance practice	2	June	2 <sup>nd</sup>	06/06/2022-10/06/2022
	6.2 Introduction to preventive maintenance (PM)	2			
	6.3 Introduction to corrective maintenance (CM)	2			
	6.4 Introduction to breakdown maintenance (BM)				
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
	6.5 Introduction to total productive maintenance (TPM)	4	July	4 <sup>th</sup>	25/07/2022-29/07/2022
	6.6 Pillars of total productive maintenance (TPM)	4			

7.0 Engineering Drawing IV	7.1 Drawing joints	2	August	1 <sup>st</sup>	01/08/2022-05/08/2022
	7.2 Working drawing	6			
	7.3 Assembly drawing	8	August	2 <sup>nd</sup>	09/08/2022-12/08/2022
8.0 Introduction to CAD II	8.1 Pictorial drawing (Oblique, Isometric)	8	August	3 <sup>rd</sup>	15//08/2022-19/08/2022
	8.2 Orthographic projection	8	August	4 <sup>th</sup>	22/08/2022-26/08/2022
	8.3 Dimensioning	8	September	1 <sup>st</sup>	29/08/2022-02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022
	<b>Mid-term Break</b>				10/09/2022-25/09/2022
9.0 Auto-Workshop Practices	9.1 Lubricationssystems	8	September	4 <sup>th</sup>	26/09/2022-30/09/2022
	9.2 Fuel system	8	October	1 <sup>st</sup>	03/10/2022-07/10/2022
	9.3 Auto-Electricsystem	8	October	2 <sup>nd</sup>	10/10/2022-14/10/2022

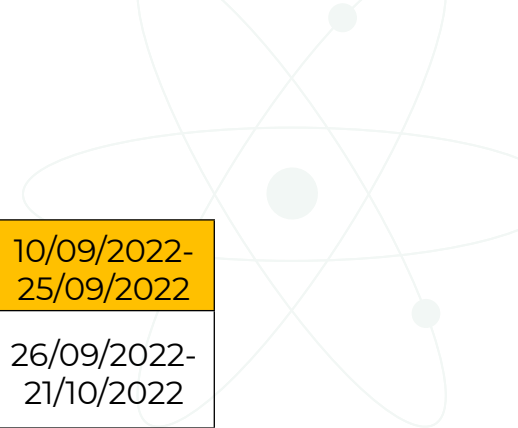


	9.4 Engine cooling system	8	October	3 <sup>rd</sup>	17/10/2022- 21/10/2022
	<b>Preparations and sitting for CSEE</b>				
	<b>End of Year Break</b>				

## Electrical Engineering Form 1

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
	Orientation course	12	January February	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup> -4 <sup>th</sup>	17/01/2022- 25/02/2022
1.0 Electrical Engineering, Science and Technology	1.1 Introduction to electrical engineering	8	February/ March March	1 <sup>st</sup> 2 <sup>nd</sup> -4 <sup>th</sup>	28/02/2022- 25/03/2022
	1.2 Relationship between science, electrical engineering and technology	4	April	1 <sup>st</sup> -2 <sup>nd</sup>	28/03/2022- 08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/04/2022- 24/04/2022
	1.2 Relationship between science, electrical engineering and technology	2	April	4 <sup>th</sup>	25/04/2022- 29/04/2022
1.0 Electrical Engineering, Science and Technology	1.3 Types of electrical engineering occupations	2	May	1 <sup>st</sup>	02/05/2022- 06/05/2022
	1.4 Duties and responsibilities of electrical engineering personnel	2	May	2 <sup>nd</sup>	09/05/2022- 13/05/2022

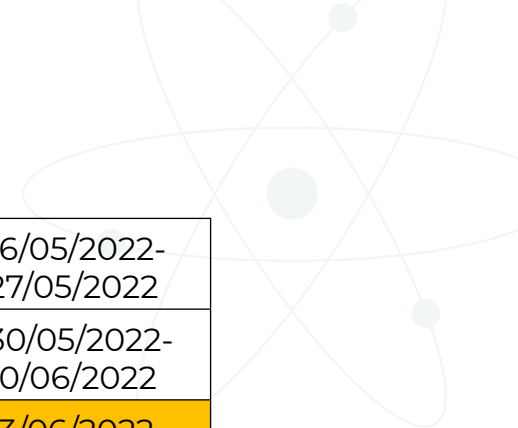
	1.5 The importance of electrical engineering field in the society	2	May	3 <sup>rd</sup>	16/05/2022-20/05/2022
2.0 Electrical Workshop Orientation	2.1 Introduction to electrical workshops	2	May	4 <sup>th</sup>	23/05/2022-27/05/2022
	2.2 Safety management in electrical engineering workshops	4	May June	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	30/5/2022-10/06/2022
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
	2.2 Safety management in electrical engineering workshops	2	July	4 <sup>th</sup>	25/07/2022-29/07/2022
	2.3 Electrical workshop tools and equipment	2	August	1 <sup>st</sup>	01/08/2022-05/08/2022
3.0 Electrical Draughting	3.1 Introduction to electrical draughting	2	August	2 <sup>nd</sup>	09/08/2022-12/08/2022
	3.2 International organization for standardization (ISO) sheet layout and sketching	2	August	3 <sup>rd</sup>	15/08/2022-19/08/2022
4.0 Workshop Practice	4.1 Tools and accessories	4	August September	4 <sup>th</sup> 1 <sup>st</sup>	22/08/2022-02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022



	<b>Mid-term Break</b>				10/09/2022- 25/09/2022
	4.1 Tools and accessories	8	September	4 <sup>th</sup>	26/09/2022- 21/10/2022
	4.2 Equipment and materials	12	October November December	1 <sup>st</sup> -4 <sup>th</sup> 1 <sup>st</sup> -4 <sup>th</sup> 1 <sup>st</sup>	24/10/2022- 02/12/2022
	<b>Annual Assessment</b>				05/12/2022- 16/12/2022
	<b>End of Year Break</b>				17/12/2022

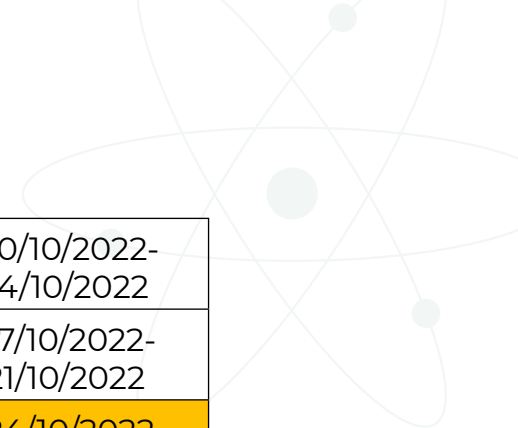
## Electrical Engineering Form 2

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Electricity	1.1 Nature of electricity	16	January	3 <sup>rd</sup> -4 <sup>th</sup>	17/01/2022-28/01/2022
	1.2 Methods of producing electricity	16	January February	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	31/01/2022-11/02/2022
	1.3 Sources of electricity	16	February	3 <sup>rd</sup> -4 <sup>th</sup>	14/02/2022-25/02/2022
	1.4 Energy conversion	8	March	1 <sup>st</sup>	28/02/2022-04/03/2022
	1.5 Electric heating	24	March	2 <sup>nd</sup> -4 <sup>th</sup>	07/03/2022-25/03/2022
2.0 Units	2.1 Basic units of measurements	16	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022-08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022-14/04/2022
	<b>Mid-term Break</b>				15/04/2022-24/04/2022
	2.2 Multiples and sub-multiples of basic electrical units	8	April	4 <sup>th</sup>	25/04/2022-29/04/2022
3.0 Dc Circuits	3.1 Electric circuit	16	May	1 <sup>st</sup> -2 <sup>nd</sup>	02/05/2022-13/05/2022



	3.2 Current, voltage and resistance	16	May	3 <sup>th</sup> -4 <sup>th</sup>	16/05/2022-27/05/2022
4.0 Instruments and Measurements	4.1 Basic measuring instrument	16	June	1 <sup>st</sup> -2 <sup>nd</sup>	30/05/2022-10/06/2022
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
	4.2 Construction and operations of moving coil instruments	16	July August	4 <sup>th</sup> 1 <sup>st</sup>	25/07/2022-05/08/2022
5.0 Cells and Batteries	5.1 Cells	24	August September	2 <sup>nd</sup> -4 <sup>th</sup>	09/08/2022-26/08/2022
	5.2 Batteries	8	September	1 <sup>st</sup>	29/08/2022-02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022
	<b>Mid-term Break</b>				10/09/2022-25/09/2022
5.0 Cells and Batteries	5.2 Batteries	8	September	4 <sup>th</sup>	26/09/2022-30/09/2022
6.0 Magnetism and Electro-Magnetism	6.1 Permanent magnet	8	October	1 <sup>st</sup>	03/10/2022-07/10/2022

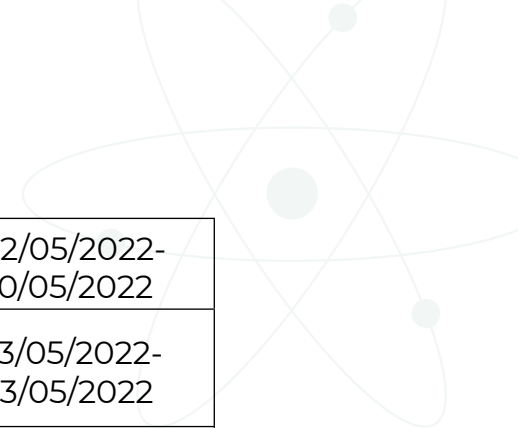




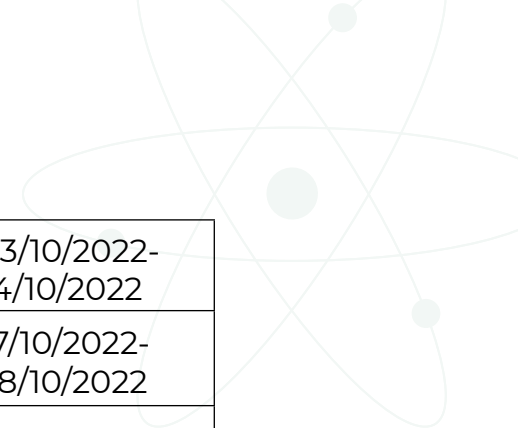
	6.2 Magnetic induction	8	October	2 <sup>nd</sup>	10/10/2022- 14/10/2022
	6.3 Electro- magnetism	8	October	3 <sup>rd</sup>	17/10/2022- 21/10/2022
	<b>Preparation for Form Two Na- tional Examination</b>		October		24/10/2022- 28/10/2022

### Electrical Engineering Form 3

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Measurements and Measuring Instruments	1.1 Moving Coil and Moving Iron Instruments	16	January	3 <sup>rd</sup> -4 <sup>th</sup>	17/01/2022-28/01/2022
	1.2 Extension of Meter Range	24	January February	4 <sup>th</sup> 1 <sup>st</sup> -3 <sup>rd</sup>	31/01/2022-18/02/2022
	1.3 Application	16	February March	4 <sup>th</sup> 1 <sup>st</sup>	21/02/2022-04/03/2022
	1.4 Digital and Analogy Instruments	8	March	2 <sup>nd</sup>	07/03/2022-11/03/2022
2.0 Electro Magnetism and Magnetic Circuit	2.1 Magnetism and Magnetic Circuit	8	March	3 <sup>rd</sup>	14/03/2022-18/03/2022
	2.2 Electro Magnetism and Electro- magnetic Induction	24	March April	4 <sup>th</sup> 4 <sup>th</sup> 1 <sup>st</sup>	21/03/2022-08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022-14/04/2022
	<b>Mid-term Break</b>				15/04/2022-24/04/2022
3.0 Generation of AC Voltage	3.1 Fundamentals of AC Theory	8	April	4 <sup>th</sup>	25/04/2022-29/04/2022



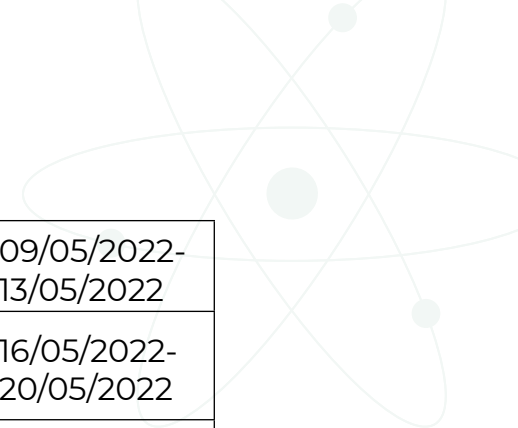
	3.2 Single Phase AC Circuits	24	May	1 <sup>st</sup> -3 <sup>rd</sup>	02/05/2022-20/05/2022
4.0 Transformer	4.1 Transformer	16	May June	4 <sup>th</sup> 1 <sup>st</sup>	23/05/2022-03/05/2022
	4.2 Types of Transformers	8	June	2 <sup>nd</sup>	06/06/2022-17/06/2022
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
	4.2 Types of Transformers	8	July	4 <sup>th</sup>	25/07/2022-29/07/2022
	4.3 Transformer Rating and Application	16	August	1 <sup>st</sup> -2 <sup>nd</sup>	01/08/2022-12/08/2022
5.0 Current Electricity	5.1 Resistors in Series	16	August	3 <sup>rd</sup> -4 <sup>th</sup>	15/08/2022-26/08/2022
	5.2 Resistors in Parallel	8	September	1 <sup>st</sup>	29/08/2022-02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022
	<b>Mid-term Break</b>				10/09/2022-25/09/2022
	5.2 Resistors in Parallel	8	September	4 <sup>th</sup>	26/09/2022-30/09/2022



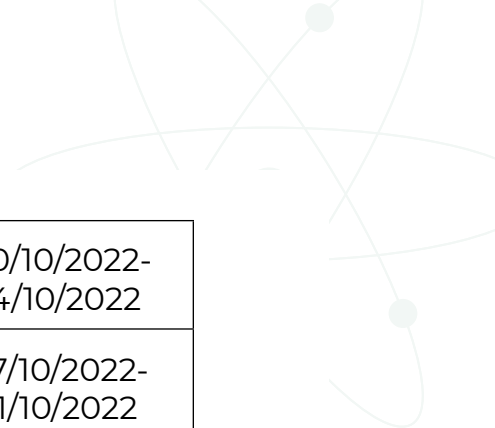
	5.3 Power wasted in a Resistor	16	October	1 <sup>st</sup> -2 <sup>nd</sup>	03/10/2022- 14/10/2022
	5.4 Electric Quantities in DC Circuit Using Kirchhoff's Law	16	October	3 <sup>rd</sup> -4 <sup>th</sup>	17/10/2022- 28/10/2022
6.0 Capacitors and Capacitances	6.1 Capacitors in series	16	November November	1 <sup>st</sup> 2 <sup>nd</sup>	31/10/2022- 11/11/2022
	6.2 Capacitors in parallel	16	November	3 <sup>rd</sup> -4 <sup>th</sup>	14/11/2022- 25/11/2022
	6.3 Energy Stored in Capacitor	8	December	1 <sup>st</sup>	28/11/2022- 02/12/2022
	<b>Annual Assessment</b>				05/12/2022- 16/12/2022
	<b>End of Year Break</b>				17/12/2022

## Electrical Engineering Form 4

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Illumination	1.1 Illumination	8	January	3 <sup>rd</sup>	17/01/2022-21/01/2022
	1.2 Lighting Scheme	8	January	4 <sup>th</sup>	24/01/2022-28/01/2022
	1.3 Domestic Wiring Systems	8	February	1 <sup>st</sup>	31/01/2022-04/02/2022
	1.4 Electrical Diagrams	8	February	2 <sup>nd</sup>	07/02/2022-11/02/2022
	1.5 Simple Domestic Electrical Installation	40	February March	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup> -3 <sup>rd</sup>	14/02/2022-18/03/2022
	1.6 Load Calculation	8	March	4 <sup>th</sup>	21/03/2022-25/03/2022
	1.7 Protection Devices and Wiring Standards	16	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022-08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022-08/04/2022
	<b>Mid-term Break</b>				15/04/2022-24/04/2022
	1.8 Earthing	8	April	4 <sup>th</sup>	25/04/2022-29/04/2022
	1.9 Tariffs	8	May	1 <sup>st</sup>	02/05/2022-06/05/2022



2.0 Transformer	2.1 Power in Transformer	8	May	2 <sup>nd</sup>	09/05/2022-13/05/2022
	2.2 Transformer Losses and Efficiency	8	May	3 <sup>rd</sup>	16/05/2022-20/05/2022
	2.3 Voltage Regulation	8	May	4 <sup>th</sup>	23/05/2022-27/05/2022
3.0 Dc Machines	3.1 DC Motors	16	June	1 <sup>st</sup> -2 <sup>nd</sup>	30/05/2022-10/06/2022
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
	3.2 DC Generator	16	July August	4 <sup>th</sup> 1 <sup>st</sup>	25/07/2022-05/08/2022
4.0 Ac Machines	4.1 AC Generators	16	August	2 <sup>nd</sup> -3 <sup>rd</sup>	09/08/2022-19/08/2022
	4.2 AC Motors	16	August September	4 <sup>th</sup> 1 <sup>st</sup>	22/08/2022-02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022
	<b>Mid-term Break</b>				10/09/2022-25/09/2022

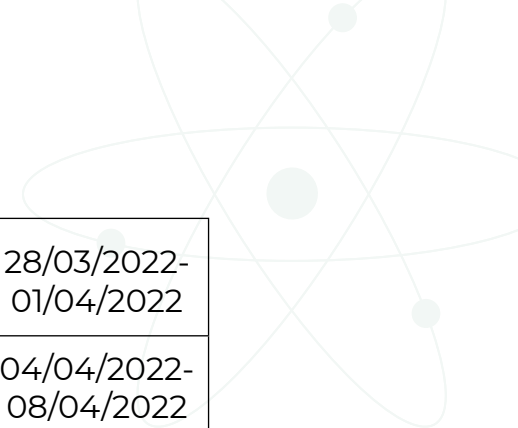


5.0 Study Tour	5.1 Study Tour to Power Utility Company	8	October	2 <sup>nd</sup>	10/10/2022-14/10/2022
	5.2 Study Tour to Processing Industry	8	October	3 <sup>rd</sup>	17/10/2022-21/10/2022
	<b>Preparation for Certificate of Secondary Education Examination</b>				24/10/2022-28/10/2022

## Electronics and Communication Engineering Form 1

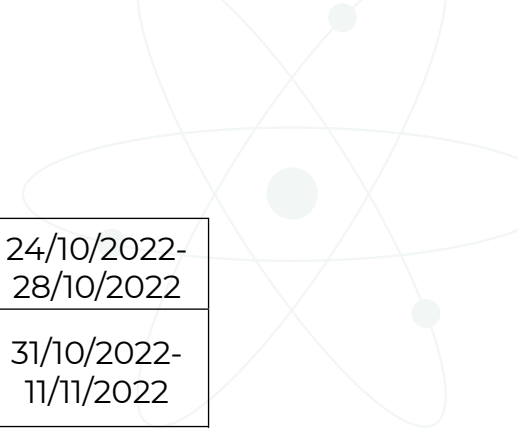
Main Topic	Sub Topic	Number of Periods	Month	Week	Date
	Orientation Course		January February	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup> -4 <sup>th</sup>	17 /01/2022- 25/02/2022
1.0 Electronics Engineering Occupational Information	1.1 Relationship between science, engineering and technology 1.2 Introduction to electronics and communication engineering	03	March	1 <sup>st</sup>	28/02/2022- 04 /03/2022
	1.3 Types of electronics and communication engineering occupations 1.4 Duties and responsibilities of electronics engineering personnel 1.5 The importance of electronics and communication engineering field in society	06	March	2 <sup>nd</sup> -3 <sup>rd</sup>	07/03/2022- 18 /03/2022
2.0 Safety Management and Rules	2.1 Safety rules management	03	March	4 <sup>th</sup>	21/03/2022- 25/03/2022





	2.2 Personal safety rules and management	03	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022- 01/04/2022
	2.3 Safety rules and management	03	April	1 <sup>st</sup>	04/04/2022- 08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/04/2022- 24/04/2022
	2.4 Safety rules and regulations in workshop practices	03	April	4 <sup>th</sup>	25/04/2022- 29/04/2022
	2.5 Accidents and prevention in electronic and communication engineering workshop/ laboratory	03	May	1 <sup>st</sup>	02/05/2022- 06/05/2022
3.0 Drawing Techniques	3.1 Drawing office	03	May	2 <sup>nd</sup>	09/05/2022- 13 /05/2022
	3.2 International standards organization (ISO) sheet layout and sketching	03	May	3 <sup>rd</sup>	16/05/2022- 20/05/2022

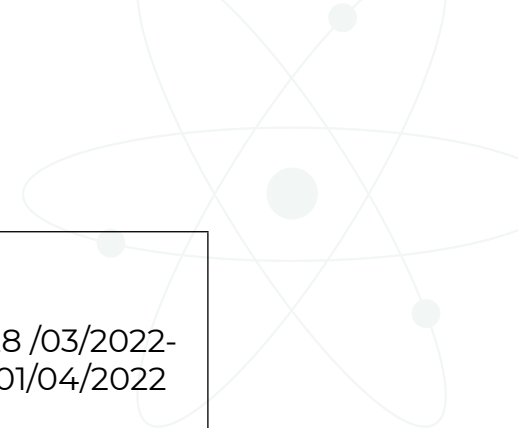
	3.3 Construction of geometric figures	09	May June	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	23 /05/2022- 10 /06/2022
	<b>Terminal Assessment</b>				13/06/2022- 24/06/2022
	<b>First Term Break</b>				25/06/2022- 24/07/2022
	3.4 Similar figures	09	July August	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	25/07/2022- 12/08/2022
	3.5 Pictorial drawing (oblique and isometric)	09	August September	3 <sup>rd</sup> -4 <sup>th</sup> 1 <sup>st</sup>	09/08/2022- 02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022- 09/09/2022
	<b>Mid-term Break</b>				10/09/2022- 25/09/2022
	3.5 Pictorial drawing (oblique and isometric)	03	September	4 <sup>th</sup>	26/09/2022- 30/09/2022
4.0 Electronics Workshop/ Laboratory Practice I	4.1 Workshop/ laboratory practices	06	October	1 <sup>st</sup> 2 <sup>nd</sup>	03/10/2022- 14/10/2022
5.0 Electronics Drawing	5.1 Block and basic diagrams in circuit development	03	October	3 <sup>rd</sup>	17/10/2022- 21 /10/2022



	5.2 Logic diagrams	03	October	4 <sup>th</sup>	24/10/2022- 28/10/2022
	5.3 Electronic component schematic symbols	06	October November	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	31/10/2022- 11/11/2022
	5.4 Electronic schematic diagrams	03	November	3 <sup>rd</sup>	14/11/2022- 18/11/2022
	5.5 Drawing schematic diagrams	06	November December	4 <sup>th</sup> 1 <sup>st</sup>	21 /11/2022- 02 /12/2022
	<b>Annual Assessment</b>				05/12/2022- 16/12/2022
	<b>End of Year Break</b>				17/12/2022

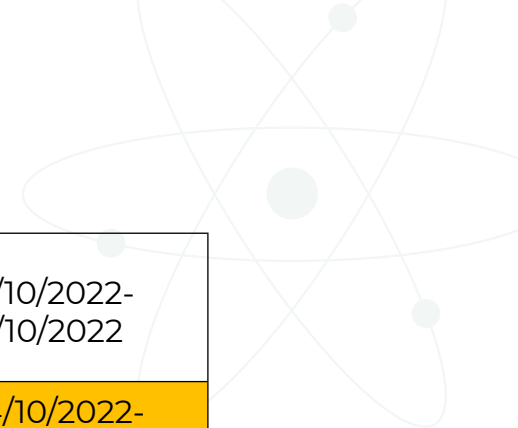
## Electronics and Communication Engineering Form 2

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Introduction on Electricity	1.1 Nature of electricity	8	January	3 <sup>rd</sup>	17/01/2022-21/01/2022
	1.2 Electric circuit	8	January	4 <sup>th</sup>	24/01/2022-28/01/2022
	1.3 Series and parallel circuit connection	8	February	1 <sup>st</sup>	31/01/2022-04/02/2022
2.0 Introduction to Measurements and Instrumentation	2.1 Ohmmeter, voltmeter, ammeter and multi\meter	16	February	2 <sup>nd</sup> -3 <sup>rd</sup>	07/02/2022-18/02/2022
	2.2 Signal generator	8	February	4 <sup>th</sup>	21/02/2022-25/02/2022
	2.3 Oscilloscope	16	February March	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	28/02/2022-11/03/2022
3.0 Electronic Components	3.1 Resistors and colour codes	8	March	3 <sup>rd</sup>	14/03/2022-18/03/2022
	3.2 Capacitors and colour codes	8	March	4 <sup>th</sup>	21/03/2022-25/03/2022



	3.3 Inductors and colour codes	8	March April	4 <sup>th</sup> 1 <sup>st</sup>	28 /03/2022- 01/04/2022
	3.4 Transformers	8	April	1 <sup>st</sup>	04/04/2022- 08 /08/2022
	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/04/2022- 24/04/2022
4.0 Semi Conductors	4.1 Valence and conduction bands	08	April	4 <sup>th</sup>	25/04/2022- 29/04/2022
	4.2 Charge carriers	08	May	1 <sup>st</sup>	02/05/2022- 06/05/2022
	4.3 P-N Junction	08	May	2 <sup>nd</sup>	09/05/2022- 13 /05/2022
5.0 Semi Conductor Devices	5.1 Diodes	16	May	3 <sup>rd</sup> -4 <sup>th</sup>	16/05/2022- 27/05/2022
	5.2 Bipolar junction transistors	16	May June	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	30/05/2022- 10/06/2022
	<b>Terminal Assessment</b>				13/06/2022- 24/06/2022

	<b>First Term Break</b>				25/06/2022- 24/07/2022
	5.3 Small signal transistors amplifier	16	July August	4 <sup>th</sup> 1 <sup>st</sup>	25/07/2022- 05/08/2022
	5.4 Field effect transistors (FETs)	16	August	2 <sup>nd</sup> -3 <sup>rd</sup>	09 /08/2022- 19 /08/2022
6.0 Electronics Workshop Practice II	6.1 Determining resistor values using color codes	8	August	4 <sup>th</sup>	22 /08/2022- 26 /08/2022
	6.2 Determining capacitor values using colour codes	8	September	1 <sup>st</sup>	29 /08/2022-- 02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022- 09/09/2022
	<b>Mid-term Break</b>				10/09/2022- 25/09/2022
	6.3 Determining inductor values	08	September	4 <sup>th</sup>	26/09/2022- 30 /09/2022
	6.4 Diode measurement	08	October	1 <sup>st</sup>	03 /10/2022- 07 /10/2022
	6.5 Transistor measurements and applications	08	October	2 <sup>nd</sup>	10 /10/2022- 14/10/2022

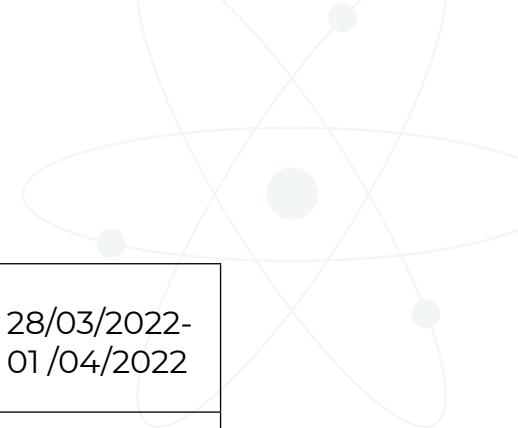


	6.6 Field effect transistor measurements and applications	08	October	3 <sup>th</sup>	17/10/2022-21/10/2022
	<b>Preparation &amp; National Assessment</b>				24/10/2022-28/10/2022

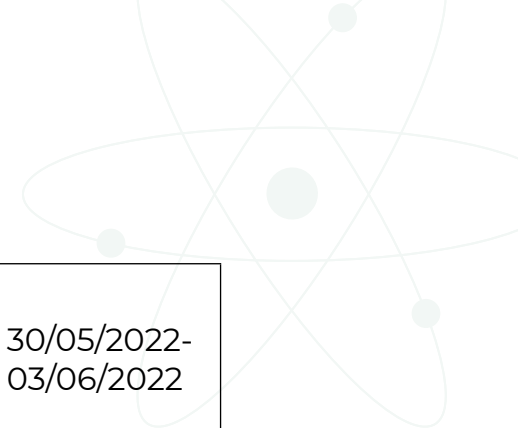
## Electronics and Communication Engineering Form 3

Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Transistors	1.1 Transistor amplifier	16	January	3 <sup>rd</sup> -4 <sup>th</sup>	17/01/2022-28/01/2022
	1.2 Transistor as switch	08	February	1 <sup>st</sup>	31 /01/2022-04/02/2022
	1.3 Single stage amplifier				
	1.4 Multi-stage amplifiers	08	February	2 <sup>nd</sup>	07 /02/2022-11/02/2022
2.0 Electronics Amplifiers	2.1 Classes of amplifiers and their operations	16	February	3 <sup>rd</sup> -4 <sup>th</sup>	14/02/2022-25/02/2022
	2.2 Feedback in amplifier and oscillator circuits.	08	March	1 <sup>st</sup>	28/02/2022-04/03/2022
	2.3 Laboratory work amplifiers and oscillators	08	March	2 <sup>nd</sup>	07/03/2022-11/03/2022
	2.4 Principals of operational amplifier	16	March	3 <sup>rd</sup> -4 <sup>th</sup>	14/03/2022-25/03/2022

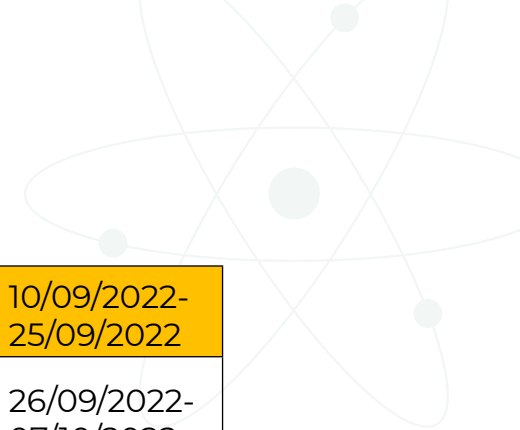




3.0 Communication Systems	3.1 Types of communication 3.2 Tuned Circuits	08	March April	4 <sup>th</sup> 1 <sup>st</sup>	28/03/2022- 01/04/2022
	3.3 Oscillators 3.4 Oscillators and their operations	08	April	1 <sup>st</sup>	04/04/2022- 08/04/2022
	<b>Mid-term Assessment</b>				11/04/2022- 14/04/2022
	<b>Mid-term Break</b>				15/04/2022- 24/04/2022
	3.5 Transducers 3.6 Antennae	08	April	4 <sup>th</sup>	25/04/2022- 29/04/2022
	3.7 Modulation	08	May	1 <sup>st</sup>	02/05/2022- 06/05/2022
4.0 Radio Communication	4.1 Basic principles of radio transmission	08	May	2 <sup>nd</sup>	09/05/2022- 13/05/2022
	4.2 Radio receiver	08	May	3 <sup>rd</sup>	16/05/2022- 20/05/2022
	4.3 Radio tuned circuits	08	May	4 <sup>th</sup>	23/05/2022- 27/05/2022



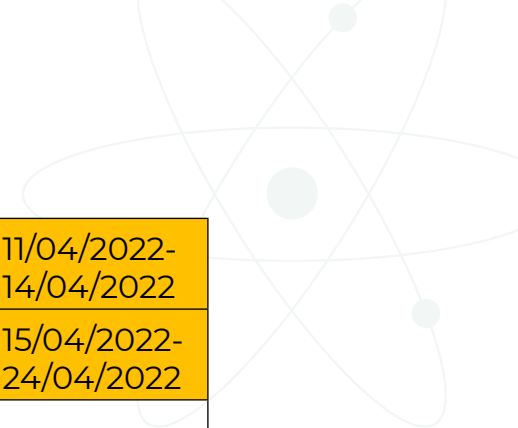
	4.4 Drawing radio receiver block and circuit diagrams	08	June	1 <sup>st</sup>	30/05/2022-03/06/2022
	4.5 Troubleshoot and repair of radio sets	08	June	2 <sup>nd</sup>	06/06/2022-10/06/2022
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
	4.6 Fault tracing in radio receivers	16	July August	4 <sup>th</sup> 1 <sup>st</sup>	25/07/2022-05/08/2022
5.0 Consumer Electronic Product Testing And Fault-Finding	5.1 Testing electronic equipment	08	August	2 <sup>nd</sup>	09/08/2022-12/08/2022
	5.2 Testing electronic equipment	16	August	3 <sup>rd</sup> -4 <sup>th</sup>	15/08/2022-26/08/2022
	5.3 Instrumentation	08	September	1 <sup>st</sup>	29/08/2022-02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022



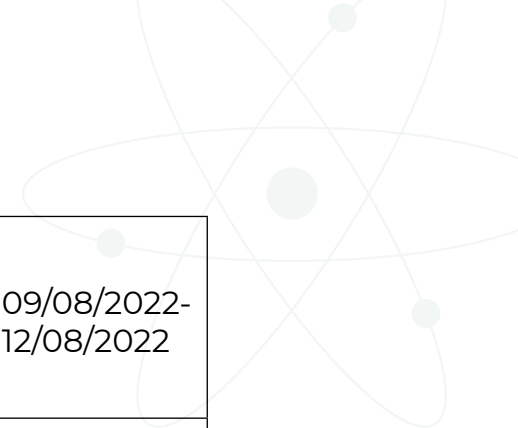
	<b>Mid-term Break</b>				10/09/2022-25/09/2022
	5.4 Instrumentation	16	September October	4 <sup>th</sup> 1 <sup>st</sup>	26/09/2022-07/10/2022
6.0 Digital Electronics	6.1 Binary number systems	24	October	2 <sup>nd</sup> -4 <sup>th</sup>	10/10/2022-28/10/2022
	6.2 Logic gates	24	October November	4 <sup>th</sup> 1 <sup>st</sup> -3 <sup>rd</sup>	31/10/2022-18/11/2022
	6.3 Integrated circuits (ICS)	16	November No- vember/Decem- ber	4 <sup>th</sup> 4 <sup>th</sup> -1 <sup>st</sup>	21/11/2022-02/12/2022
	<b>Annual Assessment</b>				05/12/2022-16/12/2022
	<b>End of Year Break</b>				17/12/2022

## Electronics and Communication Engineering Form 4

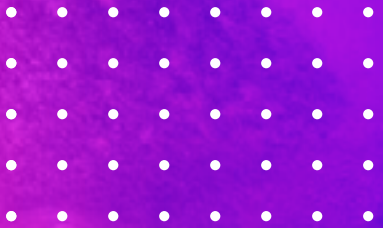
Main Topic	Sub Topic	Number of Periods	Month	Week	Date
1.0 Television Receiver	1.1 Television (TV)	08	January	3 <sup>rd</sup>	17 /01/2022-21/01/2022
	1.2 TV parts and diagrams	16	January February	4 <sup>th</sup> 1 <sup>st</sup>	24/01/2022-04/02/2022
	1.3 TV operations 1.4 TV receiver	16	February	2 <sup>nd</sup> -3 <sup>rd</sup>	07/02/2022-18/02/2022
	1.5 TV power supplies	24	February March	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	21/02/2022-11 /03/2022
2.0 Repair and Maintenance of TV Receiver Set	2.1 Diagnose and clear faults in a TV set	24	March April	3 <sup>rd</sup> - 4 <sup>th</sup> 1 <sup>st</sup>	14/03/2022-01/04/2022
	2.2 Repair faulty cathode-ray tube (CRT) TV set	08	April	1 <sup>st</sup>	04/04/2022-08/04/2022



	<b>Mid-term Assessment</b>				11/04/2022-14/04/2022
	<b>Mid-term Break</b>				15/04/2022-24/04/2022
	2.2 Repair faulty cathode-ray tube (CRT) TV set	16	April May	4 <sup>th</sup> 1 <sup>st</sup>	25/04/2022-06/05/2022
	2.3 Repair faulty flat panel display (FPD) TV Set	24	May	2 <sup>nd</sup> -4 <sup>th</sup>	09/05/2022-27/05/2022
3.0 Consumer Electronics	3.1 Audio systems	16	May June	4 <sup>th</sup> 1 <sup>st</sup> -2 <sup>nd</sup>	30/05/2022-10/06/2022
	<b>Terminal Assessment</b>				13/06/2022-24/06/2022
	<b>First Term Break</b>				25/06/2022-24/07/2022
	3.2 Fault diagnosis to audio, video and data (Multimedia) equipment including CD, VCD, DVD players and other multimedia	16	July August	4 <sup>th</sup> 1 <sup>st</sup>	25/07/2022-05/08/2022



	3.2 Fault diagnosis to audio, video and data (Multimedia) equipment including CD, VCD, DVD players and other multimedia	08	August	2 <sup>nd</sup>	09/08/2022-12/08/2022
	3.3 Video systems	08	August	3 <sup>rd</sup>	15/08/2022-12/08/2022
4.0 Cable Television	4.1 Principles of operation of TV cable	16	August September	4 <sup>th</sup> 1 <sup>st</sup>	15/08/2022-02/09/2022
	<b>Mid-term Assessment</b>				05/09/2022-09/09/2022
	<b>Mid-term Break</b>				10/09/2022-25/09/2022
	4.2 Installation of camera and closed circuit TV (CCTV)	16	September October	4 <sup>th</sup> 1 <sup>st</sup>	26 /09/2022-07/10/2022
5.0 Cell Phone Repairs And Service	5.1 Basic principles of mobile communication system	08	October	2 <sup>nd</sup>	10/10/2022-14/10/2022
	5.2 Components of GSM system and their functions 5.3 Repairs of GSM phones	08	October	3 <sup>rd</sup>	17/10/2022-21/10/2022
	<b>Preparation &amp; National Assessment</b>			4 <sup>th</sup>	24/10/2022-28/10/2022







*Kazi Vendelee*

**Magufuli City - Mtumba**  
TAMISEMI Street  
P.O BOX 1923,  
41185 Dodoma, Tanzania  
**Phone** : (255) 26 232 1 234  
**Email** : ps@tamisemi.go.tz

[www.tamisemi.go.tz](http://www.tamisemi.go.tz)

