

**FURTHER MATHEMATICS**  
**SS II**  
**SECOND TERM**

**SUB-THEME: PURE MATHEMATICS**

WEEK	TOPIC	PERFORMANCE OBJECTIVES	CONTENT	ACTIVITIES		TEACHING AND LEARNING RESOURCES	EVALUATION GUIDE
				TEACHER	STUDENTS		
1	Vectors in three dimensions I	Students should be able to: (1) find dot or scalar product of vectors. (2) solve problems on dot products. (3) find the vector or cross product of two vectors.	(1) Scalar product of vectors in three dimensions. (2) Application of scalar product.	(1) Gives examples of vectors in three dimensions. (2) Guides students to find dot product of two vectors.	(1) Write out more examples of three dimensional vectors. (2) Solve problems on dot products of two vectors.	(1) Chart showing examples of three dimensional vectors. (2) Short cut method of finding dot product $\underline{a} \times \underline{b} = a_1b_2 - a_2b_1$ $\underline{a} \cdot \underline{b} = a_1b_1 + a_2b_2 + a_3b_3$	Students to: (1) find dot scalar product of vectors. (2) derive the formula $\underline{a} \times \underline{b} = a_1b_2 - a_2b_1$
2	Vectors in three dimensions II	Students should be able to: use cross product and solve problems on application of vectors problems.	Application of cross product	(1) Leads students to solve problems on application of dot product. (2) Solves some practical example on application of vector product.	(1) Solve problems of cross product of two vectors. (2) Solve problems on dot products. (3) Solve problems on cross products.	Recommended texts.	Students to: (1) find the vector product of given vector. (2) use matrices to find vector products of given vector. (3) solve problems on dot products.
3	Statistics (Probability)	Students should be able to: (1) state the frequentist, classical and axiomatic approach to probability. (2) define some terms used in probability. (3) solve problems on dependent and independent event.	(1) Classical frequentist and axiomatic approach to probability (2) Sample space and events space. (3) Mutually exclusive, independent and conditional event	(1) Leads students to evolve concept of classical and frequentist approach using inde die. (2) States axioms of probability $-P(E) \geq 0$ $-P(E) \leq 1$ (3) Defines mutual exclusive, independent and conditional events.	(1) Understand the classical frequent and axiomatic definition of probability. (2) Define some terms used in probability. (3) Solve sample problems on probability.	Recommended texts.	Students to: (1) explain frequentist classical and axiomatic approach to probability. (2) solve problems in independent event. -mutual exclusive events -conditional event -complement of an event.
4	Probability	Student should be able to: (1) solve problems on complements of events and conditional probability. (2) use tree diagram to solve probability questions.	(1) Conditional probability (2) Probability trees.	(1) Solves conditional probability. (2) Guides students to construct probability trees.	Solve problems on conditional tree (Probability).	(1) Ludo, dice coin, pack of cards. (2) Chart showing problem on probability tree.	Students to: (1) solve problem conditional probability. (2) construct probability tree.

# Maths Scheme Of Work For Ss2 Second Term

**R Barnett**



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web may 2 2018 tiny homes are a thing these days but let s pay our respects to the ogs one of the most striking is the navajo hogan a basic dome shaped one room dwelling that dates to the early 1400s and

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web st offers a set of monolithic multifunction alternator voltage regulators that include a control section the field power stage a fault diagnostic circuit to drive a warning light and integrated protection against short circuits

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web the l9409 is a monolithic multifunction alternator voltage regulator intended for use in automotive applications the device regulates the output of an automotive generator by controlling the field winding current by means of either an analog fixed frequency pwm signal or digital fixed frequency pwm signal lrc

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web figure 1 using an automotive alternator as a generator if you obtain two alternators you may use one as a generator and the other as a motor as described in an optional portion of this project the steps needed to prepare an alternator as a three phase generator and as a three phase motor are the same making the process easy to replicate

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web jun 27 2021 fig 1 equivalent circuit of an alternator formula for voltage regulation of alternator voltage regulation is usually expressed as a fraction or percentage of the terminal voltage on load hence in general if  $V$  is the terminal voltage per phase for a given load and  $E_o$  is the open circuit voltage i e no load terminal voltage per phase then

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web an alternator with a faulty voltage regulator will make a whining or humming noise as it receives inaccurate voltage signals from the regulator full fielding an alternator bypasses the voltage regulator and produces maximum voltage output charging voltage can be regulated using an electro mechanical electronic or computer controlled regulator

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