

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 frequential, classical and axiomatic approach to probability. (2) define some terms used in probability. (3) solve problems on dependent and independent event.	(1) Classical frequential 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 frequential approach using inde dice. (2) States axioms of probability $-P(E) = 0$ $-P(E) = 1$ (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 frequential 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.

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