

LESSON PLAN

TOPIC: Probability		CLASS: Post Compulsory Education Training	
DATE: 25 March 2019	LENGTH OF LESSON: 45 minutes		NO IN CLASS: 10
AIM OF LESSON Introduction to basic concept of probability and identifying real-life example where probability involves.			
LEARNING OBJECTIVES - TSSBAT: - To understand what probability is - Introduction to basic concept of probability - Identify the real-life events where probability is involved. - To learn different ways to express probability numerically: as a ratio, a decimal, or a percentage - How to calculate probability of a simple event.			
PREVIOUS KNOWLEDGE OR VOCABULARY: - Basic mathematical operation like addition, subtraction, multiplication and division OUTCOME: one possible result of a probability SAMPLE SPACE: the list of possible outcomes RANDOM VARIABLE: outcome that occur at random SIMPLE EVENT: a specific outcome or type of outcome			
ANTICIPATED DIFFICULTIES: Peers belongs to different academic backgrounds			

RESOURCES/EQUIPMENT REQUIRED:

- White board,
- A pound coin,
- A fair die
- Projector
- Markers

Key Skills

- **Communication** – discussion and Q&A;
- **Application of Number** – side length calculations during tutorial;
- **Information and Communication Technology** – use of calculator;
- **Problem Solving** – tutorial or assesment.

UK Professional Standards Framework for HE

Areas of activity:

1. Design and planning of learning activities and/or programmes of study.

Have been achieved through the development of the module scheme of work and lessons plan.

2. Teaching and/or supporting learning.

Achieved by providing students with power point presentation and oral explanation, series of exercises and more complex problems with their answer.

3. Developing effective environments and student support and guidance.

Achieved by letting students know that any time they can ask me for help or guidance related to my discipline (Mathematics)

Core knowledge:

1. The subject material.

Achieved by thorough preparation of the lecture using several text books and lecture notes.

2. The use of appropriate technologies.

Achieved through the use of calculators and making sure these are used appropriately.

3. Methods for evaluating the effectiveness of teaching.

Achieved by filling up the lesson evaluation on the lesson plan.

Professional values

1. Respect for individual learners.

Achieved by setting up an appropriate, friendly and trusting learning environment to minimise students' stress and allow the learners' confidence to grow.

STAGE	FOCUS	STRATEGY	TIME
Welcome	Settle class, and introduce myself	Lecture talk	3min
Introduction	Explain aim and objective of the lesson	Lecture talk	2 min
Explanation	Explain what is meant by probability? And identify some of the real-life event in which probability is involved.	Lecture talk	5 min
Activity	Ask the students if they know any real-life example where probability is involved	Lecture talk/Q & A	3 min
Mathematical definition of Probability	Define the definition of probability along with the formula of a finding probability of a simple event i.e. Probability of an event X: $P(X) = \frac{\text{number of favorable outcomes to } X}{\text{total number of outcomes}}$	Lecture talk	4 min
Calculate Probability of an event	Consider some real-world events and show how to calculate probability of a specific event, for example, when flipping a coin what is the probability of getting Head: $P(X = \text{Head}) = \frac{\text{possible number of getting Head}}{\text{total number of outcomes}}$ $P(\text{Head}) = \frac{\text{Number of Head} = 1}{\text{total number of outcomes} = 2}$	Lecture talk / Q&A	12 min

Assesment	$P(head) = \frac{1}{2} = 0.5 = 50\%$ Also define the number of ways a probability can be written Give student a MCQs based question paper in order to measure their learning achivement and understading of the topic	Tutorial/Q&A	6 min
Conclusion and feedback			

Assessment:

Discussion and Q&A

During the tutorial activity, it should be relatively easy to assess most learners by observing their performance and by using MCQs-based Q/&A while circulating the question paper.

Lesson Evaluation:

Good participation.

Manage to complete all objectives.

The aim of the lesson has been achieved.