

International Islamic University Chittagong  
Department of Electrical and Electronic Engineering

B. Sc. Engineering in EEE

Semester End Exam, Spring 2022

Course Code: **EEE 4709**

Course Title: **Research Methodology and Seminar**

Time: 2 hours 30 minutes

Full Marks: 50

(i) The figures in the right-hand margin indicate full marks

(ii) Course Outcomes and Bloom's Levels are mentioned in additional Columns

Course Outcomes (CLOs) of the Questions	
<b>CLO1</b>	Reflect a basic understanding of research, various research approaches, and basic steps of research, research proposal and research articles.
<b>CLO2</b>	Explore themselves for higher studies with self-motivation for lifelong learning.
<b>CLO3</b>	Demonstrate basic proficiency of presenting an article in a formal gathering.

Bloom's Levels of the Questions						
Letter Symbols	C1	C2	C3	C4	C5	C6
Meaning	Remember	Understand	Apply	Analyze	Evaluate	Create

**Part A**

[Answer the questions from the followings]

1. a) Explain the principle of replication and local control using a suitable example. CO2 C4 5
1. b) What are the problems that could happen if you do not follow the principle of research design during your research? Differentiate between research plan and research design. CO2 C4 5
2. What is research proposal? What is the purpose of writing a research proposal? Write a short but effective research proposal on the topic. CLO1 C5 10

Or,

2. What are the main sections of a research proposal? Explain the significance of writing a good research proposal for the undergraduate students. CLO2 C5 10

**Part B**

[Answer the questions from the followings]

3. a) How to write a thesis abstract? Why abstract is one of the most important parts of the thesis? CLO1 C1 5
3. b) How to write the results and discussion section of a thesis? Explain the significance of this section. CLO2 C5 5
4. a) Suppose you want to publish your article in a Conference. How would you choose a suitable good Conference to publish your research work? Mention the steps that are typically followed before a paper is being published on an online platform. CO1 C5 5
4. b) Distinguish between a Thesis Report and a Research Paper. How to find out a journal of good impact factor? CO2 C5 5

5. a) What are the necessary points that should be considered for presenting an article in a formal gathering? CLO3 C5 5
5. b) Why high quality reference is important for writing a research article? CLO3 C4 5
- Or,
5. a) What are the main differences between a Conference and a Symposium? CO2 C2 5
5. b) What are the necessary points that should be considered for preparing a presentation slide, and why? CO2 C3 5