

EE8461: RESEARCH SEMINAR I

Effective Term

Semester B 2024/25

Part I Course Overview

Course Title

Research Seminar I

Subject Code

EE - Electrical Engineering

Course Number

8461

Academic Unit

Electrical Engineering (EE)

College/School

College of Engineering (EG)

Course Duration

One Semester

Credit Units

.5

Level

R8 - Research Degree

Medium of Instruction

English

Medium of Assessment

English

Prerequisites

Nil

Precursors

Nil

Equivalent Courses

Nil

Exclusive Courses

Nil

Part II Course Details

Abstract

This course aims to help students to develop general appreciations on different subject areas, research methodologies, and technical presentation skills through participation in research seminars conducted by faculties, visiting scholars, and research students.

Course Intended Learning Outcomes (CILOs)

CILOs		Weighting (if DEC-A1 app.)		DEC-A2	DEC-A3
1	Outline current research trends in some subject areas as presented in the seminars.	50	x		
2	Describe the research problems and the solutions in some subject areas as presented in the seminars.	25		x	
3	Observe different technical and professional presentation skills.	25	x		

A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

A3: Accomplishments

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

Learning and Teaching Activities (LTAs)

LTAs		Brief Description	CILO No.	Hours/week (if applicable)
1	Research seminars	Regular attendance to departmental seminar with engagement in discussions.	1, 2, 3	1 hour/ week
2	Summary writing	Summary reports for selected seminars on technical content as well as presentation skills.	1, 2	

Assessment Tasks / Activities (ATs)

ATs		CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Attendance in research seminars	1, 2, 3	50	
2	Summary writing	1, 2	50	

Continuous Assessment (%)

100

Examination (%)

0

Assessment Rubrics (AR)**Assessment Task**

Attendance in research seminars

Criterion

Regular attendance in departmental seminars and participation in discussions with speakers.

Pass (P)

(P) Satisfactorily attendance in the seminars.

Failure (F)

(F) Fail to attend the seminars.

Assessment Task

Summary writing

Criterion

Reports summarizing the contents of the seminars.

Pass (P)

(P) Satisfactorily report the selected seminars.

Failure (F)

(F) Fail to report the selected seminars.

Part III Other Information**Keyword Syllabus**

Research seminars are organized by the department with speakers among faculties, visiting scholars, or research students. Specifically, the individual subject area is to be identified by the research student and the supervisor. It would belong to a list of areas, including but not limited to, Applied Electromagnetics; Bioinformatics and Bioengineering; Communications; Computer Systems; Dynamics and Control; Electronic Systems and Devices; Intelligent Systems; Multimedia Technology; Nanotechnology and Microsystems; Networking; Optoelectronics; Power and Energy; etc..

Reading List**Compulsory Readings**

Title	
1	Nil

Additional Readings

Title	
1	Nil