COURSE TITLE	**SEMINAR**
COURSE CODE	**01EE0611**
COURSE CREDITS	**2**

Objective:

1 To develop comprehensive research, presentation, and professional communication skills by fostering the critical analysis of technical literature and promoting effective teamwork in academic and technical domains.

Course Outcomes: After completion of this course, student will be able to:

1 Apply research methodologies to gather and organize technical information for seminar presentations.

2 Analyze technical topics through critical review of current research, identifying gaps and relevance.

3 Evaluate scholarly articles and technical content to present informed and well-structured arguments.

4 Demonstrate effective communication of technical content through oral and visual presentations.

5 Assess the societal and environmental impact of technology discussed in seminars.

Pre-requisite of course: None

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
0	0	4	0	0	0	25	25

Contents : Unit	Topics	Contact Hours
Total Hours		

Suggested List of Experiments:

Contents : Unit	Topics	Contact Hours
Total Hours		

Textbook :

1 Research Methodology: Methods and Techniques, C. R. Kothari, New Age International, 2020

2 How to Write and Publish a Scientific Paper, Robert A. Day and Barbara Gastel, Cambridge University Press, 2020

DR. NISHANT HARSUKHRAY KOTHARI
Digitally signed by (Name of HOD)

DR. RAJENDRASINH BAHADURSINH JADEJA
Digitally signed by (Name of Dean/ Principal)

Textbook :

3 ;Technical Communication, Mike Markel, Bedford/St. Martin's, 2021

4 Writing for Engineering and Science Students, Heather Silyn-Roberts, Routledge, 2016

5 Communicating Engineering: Writing, Speaking, and Presentation Skills, Michael H. J. Bader, Springer, 2019

References:

1 Engineering Ethics: Concepts and Cases, Engineering Ethics: Concepts and Cases, Charles E. Harris Jr., Michael S. Pritchard, Michael J. Rabins, Cengage Learning, 2019

2 Sustainability in Engineering Design and Practice, Sustainability in Engineering Design and Practice, B. M. Jenkins, J. J. Kuo, CRC Press, 2022

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery					
Remember / Knowledge	**Understand**	**Apply**	**Analyze**	**Evaluate**	**Higher order Thinking / Creative**
0.00	0.00	40.00	40.00	20.00	0.00

Instructional Method:

1 Students must select a current and advanced technical topic relevant to their field of study. The topic must be novel and have sufficient depth for critical analysis. Avoid overly broad or settled topics. The topic must allow for the identification of current research trends, challenges, and potential research gaps.

2 The seminar topic must have clear societal or ethical dimensions that students can evaluate. Consider its impact on safety, sustainability, environment, or society at large.

3 Students must gather information primarily from high-quality, peer-reviewed sources. A minimum of 8-10 high-quality references is required for your seminar report and presentation.

4 A formal written report is mandatory and must be submitted before the presentation. It should follow a professional structure. The report must be as per the structure prescribed by the department. All work must be original. Any content taken from other sources must be properly cited and paraphrased.

5 The presentation shall follow the submission of report and it must follow the general guidelines by the department.

Supplementary Resources:

1 https://ieeexplore.ieee.org/

2 https://www.sciencedirect.com/

3 https://digital-library.theiet.org/

4 https://onlinelibrary.wiley.com/

Supplementary Resources:

5 https://link.springer.com/

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Digitally signed by (Name of HOD)

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