National Institute of Technology Karnataka, Surathkal

Department of Computer Science and Engineering

Course Plan

(Part-A)

Name of the course: Seminar	Course Code: CS709 and CS809	No. of Credits: 2
Year: M-Tech I year CSE and CSE-IS Semester: I	Course Type: MLC	Academic Session: Odd semester 2024-25

A. Prerequisites (if any): NIL

B. Name and Contact Details of the Course Instructor: Prof. P. SANTHI THILAGAM

Room # 410,

CSE Dept, NITK-Surathkal.

0824-2473404 (O), santhi@nitk.edu.in (Email- ID)

C. Course Objectives:

Sl. No.	Course Objectives
1	To enhance skills in organizing and delivering presentations.
2	To provide knowledge and tools for understanding and applying emotional intelligence in various contexts.

D. Course (Learning) Outcomes (COs):

COs	Course Outcomes
1	To deliver a confident presentation that is both efficient and impactful.
2	To acquire practical experience in developing the essential skills of emotional intelligence.

E. Course Articulation Matrix:

(**Note:** Enter correlation levels 1, 2, or 3 as defined below: 1 - Slight (Low), 2 - Moderate (Medium) 3 - Substantial (High), and If there is no correlation, put "-"_)

COs	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
1	3	3	2	3	2	-	-	2	3	3	2	3	3	3
2	3	2	3	2	3	-	-	2	3	3	3	2	3	3
Avg.	3	2.5	2.5	2.5	3	-	-	2	3	3	2.5	2.5	3	3

F. Program Articulation Matrix:

(**Note:** Enter correlation levels 1, 2, or 3 as defined below: 1 - Slight (Low), 2 - Moderate (Medium) 3 - Substantial (High), and If there is no correlation, put "-")

PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2
3	3	3	2	3	-	-	3	2	2	3	2	3	3

G. Seminar Instructions

Seminar description	Students must select a seminar topic aligned with their technical or research interests. They may also choose papers from any SCI-indexed journals. The selected topic must be as up-to-date as possible.
Phases and deadlines of different phases	
Topic Identification	Students are advised to choose a research topic that reflects current trends and advancements in their field of interest. Reviewing recent literature is essential to ensure the topic's relevance and potential impact. **(Due on September 10, 2024)**.
Abstract Submission	The abstract must be submitted to the faculty in charge via the IRIS portal and receive approval before the presentation.

	Guidelines for abstract preparation:
	• Acquire comprehensive knowledge on the selected topic by consulting SCI-indexed papers and other high-quality sources.
	• Ensure the abstract is a precise, complete summary of the presentation, including key research questions, objectives, hypotheses, major findings, and a brief conclusion.
	• Limit the abstract to one printed page, excluding figures and tables. It should include 1) your name and registration number, 2) the full seminar title, and 3) the abstract text
	(**Due on October 1, 2024**).
Seminar Presentation	**1. Time Limit:**
	Seminars must adhere to a strict time limit of 40 minutes, typically divided into 30-35 minutes for the presentation and 5-10 minutes for a Q&A session.
	2. Submission Requirements:
	Presentations should be prepared using PowerPoint and submitted via the IRIS portal
	3. Slide Preparation:
	• Slide Count: Limit the number of slides to 35-40 to fit within the time constraints.
	• Design: Slides should be clear and simple, using readable fonts (e.g., Helvetica or Geneva) and a font size no smaller than 26 pt. Ensure good contrast between text and background colors, and avoid dark backgrounds to maintain brightness.
	• Content: Each slide should focus on one major point, include a title, and caption tables and figures. Cite sources for figures and graphs, and label axes and units.
	4. Slide Organization:
	• Title Slide: Include the topic, your name, registration number, and class.
	• Outline Slide: Provide an overview of the presentation.
	• Content Slides:
	◆ Problem Statement: Background and problem (2 slides).

- ◆ Importance: Why the problem is significant (2 slides).
- ◆ Challenges: Challenges and need for computational solutions (2 slides).
- ◆ Existing Research: Summary of current research, with comparisons (8 slides).
- ◆ Research Gaps: Limitations of existing work (2 slides).
- ◆ Methodology: Approach used in solving the problem (8 slides).
- ◆ Experimental Study: Experimental setup, datasets, and tools used (4 slides).
- ◆ Results and Discussion: Discussion of results and future work (4 slides).
- ◆ Conclusions: Key takeaways (1 slide).
- ◆ References: Important references in IEEE format (2 slides).

5. Presentation Breakdown (30+10 minutes):

- ● Presentation of the Topic (15 minutes):
- ● Problem statement
- ● Importance of the problem
- ● Challenges
- ● Background information
- ● Existing research
- ● Main Technical Contributions (15 minutes):
  - ◆ Methodology
  - ◆ Experimental setup
  - ◆ Datasets and tools
  - ◆ Results and discussion
  - ◆ Takeaway Message (5 minutes):
  - ◆ Conclusions
- ● Question and Answer Session (5-10 minutes):

(Presentations are scheduled to take place from November 12, 2024, to November 26, 2024. A detailed schedule will be distributed at a later date.)

Sample Topics (for reference)	● Data management in different industries
	● Unsupervised Learning on Graphs
	● Approaches to Link Prediction
	● Kernel methods for time series
	● Theory of Map-reduce Algorithms
	● Adversarial Attacks
	● Deep Generative Models
	● Program Analysis for Software Security
	● Security Vulnerabilities in Modern Computing Hardware
	● Machine Learning Enhanced Network Security

Name and signature of course instructor with date:

Name and signature of DUGC/DPGC Secretary with date:

Name and signature of DUGC/DPGC Chairman with date:

Name and signature of HOD with date:

**** END ****