2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website.

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Institute Website:

PO's, PSO's and CO's have been displayed department wise on the website. The links for the proof of dissemination are given below
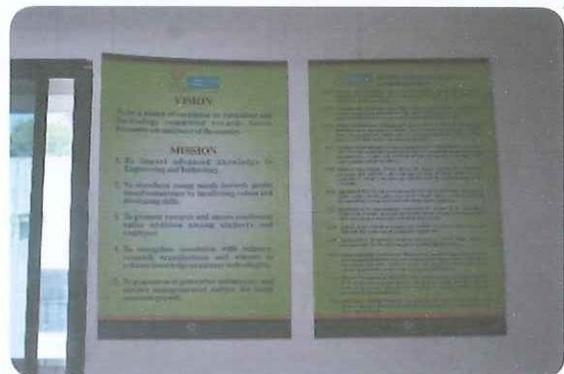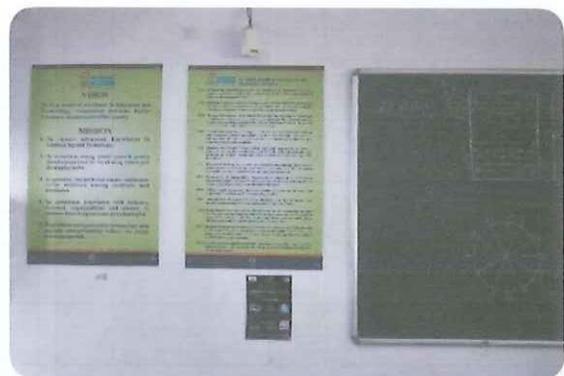
Computer Engineering: SIES | GST (siesgst.edu.in)

Electronics and Telecommunication Engineering: SIES | GST (siesgst.edu.in)

Information Technology: SIES | GST (siesgst.edu.in)

Mechanical Engineering: SIES | GST (siesgst.edu.in)

Classrooms:

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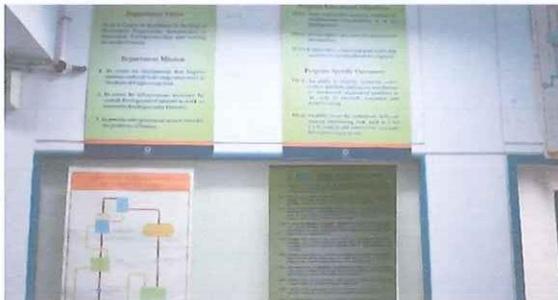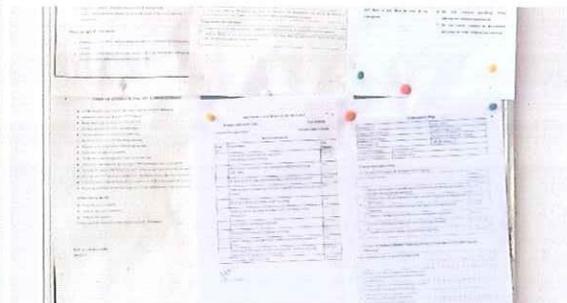Sri Chandrasekarendra Saraswathy Vidyapuram
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Laboratories:

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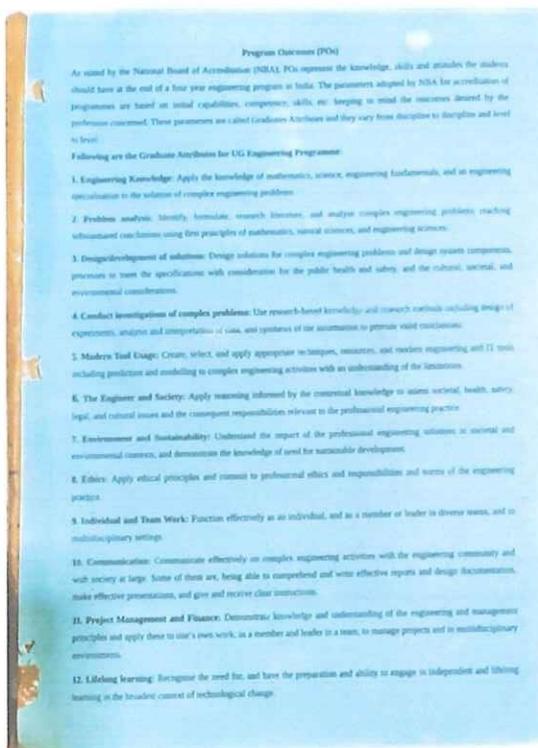Sri Chandrasekarendra Saraswathy Vidyapuram
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Dissemination of CO's and PO's in Faculty Handbook and Course Files

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Dissemination of CO's in first Lecture

Slide 1 — Introduction

Introduction

CE– TE– Artificial Intelligence

Arathi Boyanapalli
Assistant professor
Dept. of Computer Engineering
SIES Graduate School of Technology

Slide 2 — Course Objectives

Course Objectives

1 To conceptualize the basic ideas and techniques underlying the design of intelligent systems.
2 To make students understand and Explore the mechanism of mind that enables intelligent thought and action.
3 To make students understand advanced representation formalism and search techniques.
4 To make students understand how to deal with uncertain and incomplete information.

Slide 3 — Course Outcomes

Course Outcomes

On completion of course learner will be able to:

1. Ability to develop a basic understanding of AI building blocks presented in intelligent agents.
2. Ability to choose an appropriate problem-solving method and knowledge representation technique.
3. Ability to analyze the strength and weaknesses of AI approaches to knowledge– intensive problem solving.
4. Ability to design models for reasoning with uncertainty as well as the use of unreliable information.
5. Ability to design and develop AI applications in real world scenarios

Slide 4 — Syllabus

Syllabus

Module		Content	Hrs
1		Introduction to Artificial Intelligence	4
	1.1	Introduction, History of Artificial Intelligence, Intelligent Systems, Categorization of Intelligent System, Components of AI Program, Foundations of AI Sub-areas of AI Applications of AI Current trends in AI.	
2		Intelligent Agents	4
	2.1	Agents and Environments, The concept of rationality, The nature of environment, The structure of Agents, Types of Agents, Learning Agent.	
	2.2	Solving problem by Searching: Problem Solving Agent, Formulating Problems, Example Problems.	
3		Problem solving	10
	3.1	Uninformed Search Methods: Breadth First Search (BFS), Depth First Search (DFS), Depth Limited Search, Depth First Iterative Deepening (DFID). Informed Search Methods: Greedy best first Search, A* Search, Memory bounded heuristic Search.	
	3.2	Local Search Algorithms and Optimization Problems: Hill climbing search Simulated annealing, Genetic algorithms.	
	3.3	Adversarial Search: Game Playing, Min Max Search, Alpha Beta Pruning	
4		Knowledge and Reasoning	12
	4.1	Knowledge based Agents, Brief Overview of propositional logic, First Order Logic: Syntax and Semantic, Inference in FOL, Forward chaining, backward Chaining	
	4.2	Knowledge Engineering in First Order Logic, Unification, Resolution	

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Departmental Meetings

MEETING
Department Advisory Board
Department of Computer Engineering
Academic Year 2022 - 23

Advisory Board Members

S.N.	Name of member	Designation	Role in DAB
1	Dr. Aparna Bannore	HOD Computer	Chairman
2	Prof. Kalyani Pampattiwar	Assistant Professor	NBA Coordinator
3	Dr. Rizwana Umair Ahmed Siddiqui	Associate Professor	Senior Faculty
4	Dr. Deepti Reddy	Associate Professor	Senior Faculty
5	Dr. Amit Nerkar	Associate Professor, Computer Engineering , SFIT Mumbai	Academic Expert
6	Mr. Jaysen Desai	Product Designer, TCS Mumbai	Industry Expert
7	Mr. Anil Jadhav	Managing Director, 9th Legend Inc	Industry Expert
8	Mr. Dhananjay Swami	Hospitality Consultant	Parent Representative
9	Mr. Shreedhar Ravirouni	Software Engineer , Gartel Technology, Mumbai	Alumni Representative
10	Ms. Pooja Rao	Soft skill Trainer, TCS	Alumni Representative
11	Ms. Sacharya Deshmukh	Third Year	Lady Representative
12	Mr. Mohammad Sohail	Third Year	Boys Representative

Institute Vision

To be a centre of excellence in Education and Technology committed towards Socio-Economic advancement of the country

Institute Mission

1. To impart advanced knowledge in Engineering and Technology.
2. To transform young minds towards professional competence by inculcating values and developing skills.
3. To promote research and ensure continuous value addition among students and employees
4. To strengthen association with industry, research organizations and alumni to enhance knowledge on current technologies.
5. To promote next generation technocracy and nurture entrepreneurial culture for social-economic growth.

Program Outcomes

- **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem analysis:** Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design/Development of solutions:** Design solutions for complex engineering problems and design system components, process to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **Modern Tool Usage:** Create, select , and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- **The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **Environment And Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of need for sustainable development.

Program Outcomes

- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large. Some of them are, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **Project Management and Finance:** Demonstrate Knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **Lifelong Learning:** Recognise the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

Computer Department Vision

To be a Centre of Excellence in Computer Engineering to fulfil the rapidly growing needs of the Society.

Computer Department Mission

1. To impart quality education to meet the professional challenges in the area of Computer Engineering.
2. To create an environment for research, innovation, professional and social development.
3. To nurture lifelong learning skills for achieving professional growth.
4. To strengthen the alumni and industrial interaction for overall development of students.

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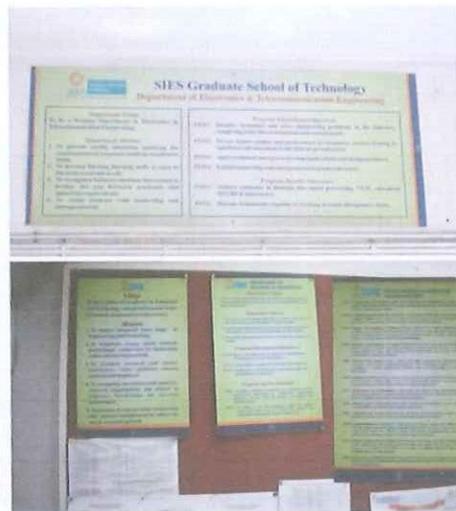Sector-V, Nerul, Navi Mumbai-400706

Faculty rooms and Administrative Areas:

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