



**MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY**

Approved by AICTE, New Delhi and Affiliated to Pondicherry University

Accredited by NBA & NAAC 'A' Grade

Kalitheerthalkuppam, Puducherry - 605107



# BINARY

**THE ANNUAL MAGAZINE 2021-2022**

**DEPARTMENT OF  
COMPUTER SCIENCE AND ENGINEERING**



# *Vision and Mission*

## *Vision*

*To impart knowledge with latest technological advancement in the field of Computer Science and Engineering CSE and transform the learners into global contributors as Innovators, Entrepreneurs and Researchers.*

## *Mission*

*Department of Computer Science and Engineering-CSE is committed.*

***Higher Order Thinking:** To impart strong fundamental concepts, analytical and problem solving ability to hone their professional skills.*

***Continuous learning:** To create an excellent conducive atmosphere for student learning and continuous updation of their knowledge on technology.*

***Entrepreneurship:** To imbibe the spirit of leadership skills to be an active entrepreneur in society with moral values.*

***Competency:** To enhance the creativity in research and to develop the competency of the students in Technological field.*

# *Programme Educational Objectives (PEO)*

*Graduates of Computer Science and Engineering will*

***PEO1: Employability:*** *Our Graduates shall be suitably employed in allied industries/services with professional competency and knowledge of modern tools.*

***PEO2: Higher Education:*** *Our Graduates shall be capable to pursue higher studies/research in the field of engineering and management.*

***PEO3: Entrepreneurship:*** *Our Graduates shall be prepared for a successful career by meeting ever increasing demands required by Computer Science and Engineering profession and enable them to become an entrepreneur.*

***PEO4: Ethical:*** *Our Graduates cultivate professional and ethical attitudes with effective communication skills, team work and multidisciplinary approach related to engineering issues.*



## **Programme Outcomes (PO)**

*PO1: Engineering knowledge: Apply knowledge of mathematics and science, with fundamentals of Engineering and Technology to be able to solve complex engineering problems related to Computer Science and Engineering.*

*PO2: Problem analysis: Identify, Formulate, review research literature and analyze complex engineering problems related to CSE and reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.*

*PO3: Design/development of solutions: Design solutions for complex engineering problems related to CSE and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural societal and environmental considerations.*

*PO4: 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.*

*PO5: Modern tool usage: Create, Select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to computer science related complex engineering activities with an understanding of the limitations.*

*PO6: 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.*

*PO7: Environment and sustainability: Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of, and need for sustainable development.*

*PO8: Ethics: Apply Ethical Principles and commit to professional ethics and responsibilities and norms of the engineering practice.*

*PO9: Individual and team work: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary Settings.*

*PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large such as able to comprehend and with write effective reports and design documentation, make effective presentations and give and receive clear instructions.*

*PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multi-disciplinary environments.*

*PO12: Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.*

## **Programme Specific Outcomes (PSO)**

*PSO1: Foundation of mathematical concepts: Ability to apply the fundamental principles of mathematics in the field of computer science and engineering to provide optimal solutions.*

*PSO2: Foundation of Software and Business technology: To design, test and evaluate software in order to meet the requirements of end users and provide cutting-edge technologies for devising cost-effective solutions.*



# *Pencil Art*



*Art By  
S. Gokul  
IV-A Sec*





# *Digital Art*



*Art By  
S. Gokul  
IV-A Sec*

# *Game Development*



*Game Developer*  
*N. Nishore*  
*II CSE B*



# *3D Model Development*



*3D Developer*  
*Katepallai Praveen*  
*II-CSE B*