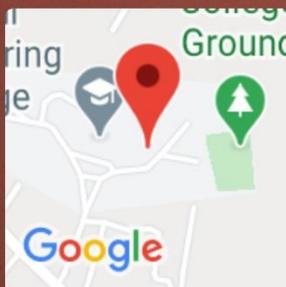
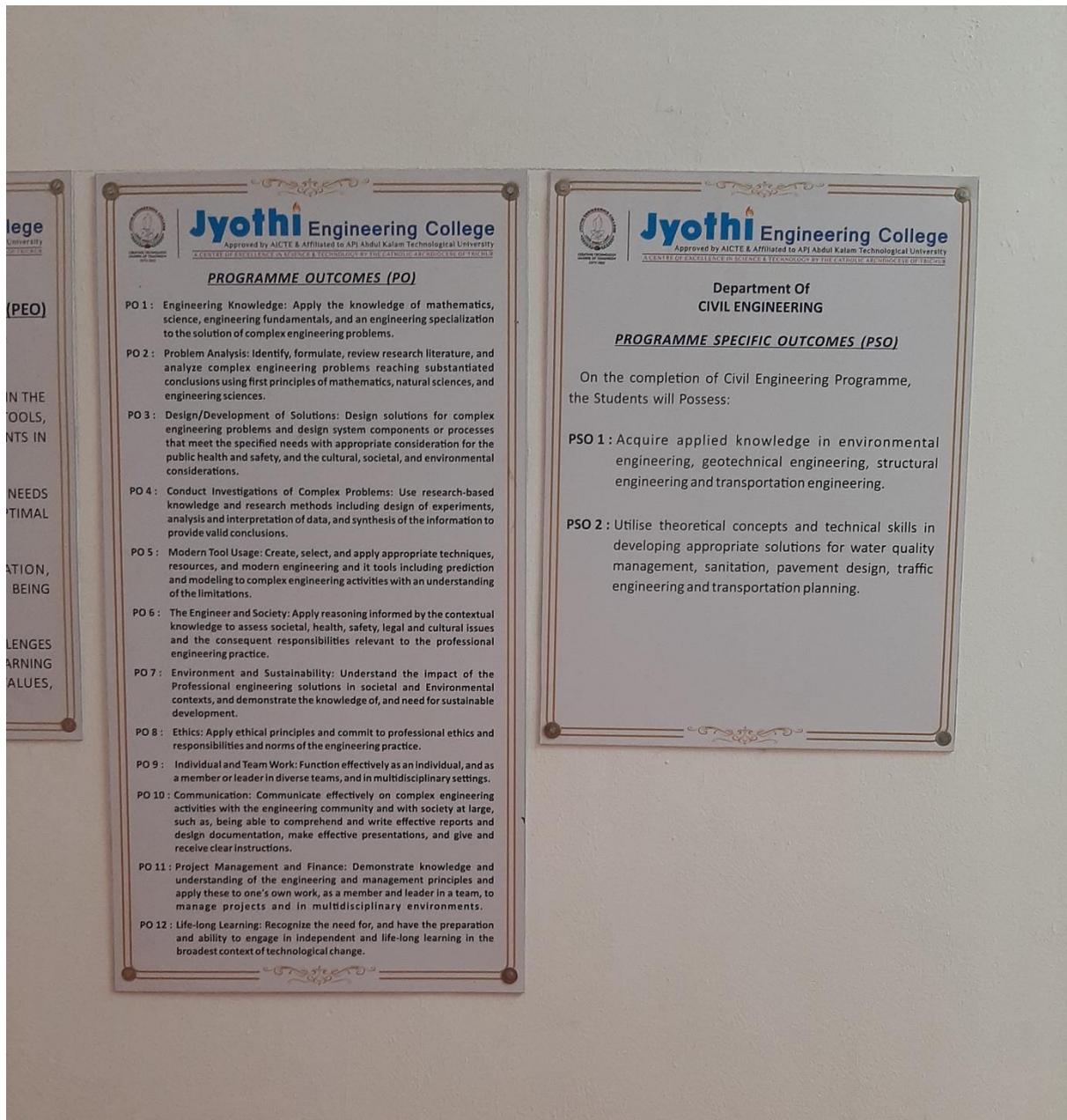


# GEO TAG PHOTOS FOR DISPLAY OF POS AND PSO

## Department of Civil Engineering



Cheruthuruthi, Kerala, India

Engineering College Road, Cheruthuruthi, Kerala 679531, India

Lat N 10° 43' 38.6436"

Long E 76° 17' 26.7324"

20/03/21 11:38 AM

# Department of Computer Science and Engineering

 **Jyothi Engineering College**  
Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University  
A CENTRE OF EXCELLENCE IN ENGINEERING & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRIVANDRUM

**PROGRAMME OUTCOMES (PO)**

- PO 1 : Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO 2 : Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO 3 : Design/Development of Solutions: Design solutions for complex engineering problems 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.
- PO 4 : 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.
- PO 5 : Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO 6 : 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.
- PO 7 : Environment and Sustainability: Understand the impact of the Professional engineering solutions in societal and Environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO 8 : Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO 9 : Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO 10 : Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO 11 : 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.
- PO 12 : 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.

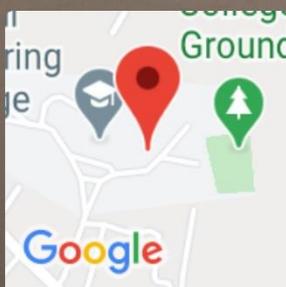
 **Jyothi Engineering College**  
Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University  
A CENTRE OF EXCELLENCE IN ENGINEERING & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRIVANDRUM

Department Of  
**COMPUTER SCIENCE & ENGINEERING**

**PROGRAMME SPECIFIC OUTCOMES (PSO)**

On the Completion of Computer Science & Engineering Programme, the Students will Possess:

- PSO 1 : An ability to apply knowledge of data structures and algorithms appropriate to computational problems.
- PSO 2 : An ability to apply knowledge of operating systems, programming languages, data management or networking principles to computational assignments.
- PSO 3 : An ability to apply design, development, maintenance or evaluation of software engineering principles in the construction of computer and software systems of varying complexity and quality.
- PSO 4 : An ability to understand concepts involved in modelling and design of computer science applications in a way that demonstrates comprehension of the fundamentals and trade-offs involved in design choices.



**Cheruthuruthi, Kerala, India**

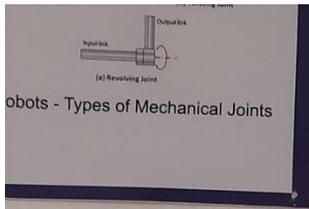
Engineering College Road, Cheruthuruthi, Kerala 679531, India

Lat N 10° 43' 38.6256"

Long E 76° 17' 26.7504"

16/03/21 01:15 PM

# Department of Mechanical Engineering



LIST OF SOFTWARES  
SOLID WORKS / AUTOCAD  
DRAFTSIGHT / CAMWORKS  
AUTOCAD INVENTOR  
CNC TRAIN SOFTWARE

**Jyothi Engineering College**  
Approved by AICTE & AFFILIATED BY APJ Abdul Kalam Technological University

Department Of  
MECHANICAL ENGINEERING

**PROGRAMME SPECIFIC OUTCOMES (PSO)**

On the completion of Mechanical Engineering Programme, the Students will Possess:

PSO 1: Graduates would be able to apply their knowledge in the domains of manufacturing, fluid and thermal sciences to solve engineering problems.

PSO 2: Graduates would be able to apply the principles of design and analysis on product design with the help of modern cad/cam tools.

PSO 3: Graduates would be able to apply the basic principles of engineering and management practices in various practical fields to engage themselves in research/industry/society.

**Jyothi Engineering College**  
CHERUTHURUTHY, THRISSUR - 679531

DEPARTMENT OF  
MECHANICAL ENGINEERING

**PROGRAMME EDUCATIONAL OBJECTIVES (PEO)**

I. GRADUATE ENGINEERS SHALL HAVE STRONG PRACTICAL AND THEORETICAL EXPOSURE IN THE FIELD OF MECHANICAL ENGINEERING AND WILL CONTRIBUTE TO THE SOCIETY THROUGH INNOVATION AND ENTERPRISE.

II. GRADUATE ENGINEERS SHALL HAVE GLOBAL OUTLOOK AND TECHNOLOGICAL LEADERSHIP, GOOD EMPLOYMENTS OR OPT FOR HIGHER STUDIES/RESEARCH AND HAVE CREATIVE THINKING TO INITIATE AND DEVELOP INNOVATIVE IDEAS.

III. GRADUATE ENGINEERS SHALL HAVE EXCELLENT TEAMWORK, COMMUNICATION AND INTERPERSONAL SKILLS, HAVING HIGH MORALS AND ETHICAL VALUES.

**Jyothi Engineering College**  
Approved by AICTE & AFFILIATED BY APJ Abdul Kalam Technological University

**PROGRAMME OUTCOMES (PO)**

PO 1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 2: Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO 3: Design/Development of Solutions: Design solutions for complex engineering problems 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.

PO 4: 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.

PO 5: Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO 6: 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.

PO 7: Environment and Sustainability: Understand the impact of the Professional engineering solutions in societal and Environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

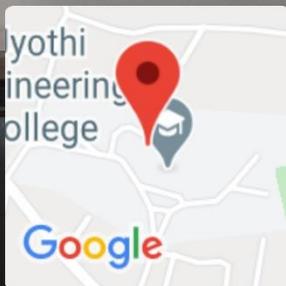
PO 8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 11: 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.

PO 12: 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.



Cheruthuruthi, Kerala, India  
Engineering College Road, Cheruthuruthi, Kerala 679531, India  
Lat N 10° 43' 40.6668"  
Long E 76° 17' 22.65"  
20/03/21 11:54 AM