



CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Ph: +91 91500 76729

Email: principal@ckec.ac.in

Web: www.ckec.ac.in

**Vision and Mission of the Departments,
Programme Educational Objectives
(PEOs), Programme Outcomes (POs) and
Program Specific Outcomes (PSOs) for all
Programmes offered by the institution are
stated and displayed on Website**



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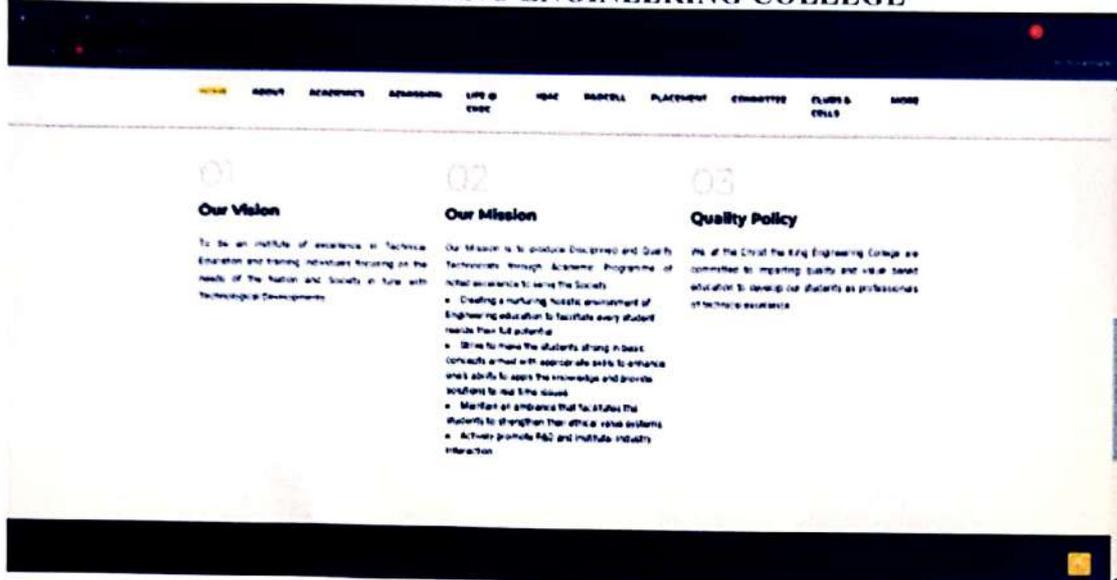
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Web: www.ckec.ac.in

CHRIST THE KING ENGINEERING COLLEGE



(Screenshot depicting the dissemination of the Institution's vision and mission statement through the college website at <https://ckec.ac.in/profile>)



(Screenshot depicting for dissemination of Program offered through the college website at <https://ckec.ac.in>)



M. Jeyakumar
Dr.M.JEYAKUMAR, M.E.,Ph.D
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



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Karamadai, Coimbatore - 641104

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DEPARTMENT OF CIVIL ENGINEERING

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VISION

"To be an outstanding department devoted to provide high end research, technical education in CIVIL ENGINEERING which will provide socially aware professional to provide solutions to global community".

MISSION

- To design curriculum based on changing needs of stake holders and provide excellence in delivery and assessment to ensure holistic development of CIVIL ENGINEERING students.
- To enhance research and consultancy resulting in solving problems related to CIVIL ENGINEERING infrastructure as well as society at large.
- To mentor students in pursuit to higher education, entrepreneurship and global professionalism".

(Screenshot depicting the dissemination of the Vision and Mission statement for the Department of Civil Engineering through the college website at <https://ckec.ac.in/civil-engineering>)

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I. PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Gain knowledge and skills in Civil engineering which will enable them to have a career and professional accomplishment in the public or private sector organizations.

PEO2: Become consultants on complex real life Civil Engineering problems related to Infrastructure development especially housing, construction, water supply, sewerage, transport, spatial planning.

PEO3: Become entrepreneurs and develop processes and technologies to meet desired infrastructure needs of society and formulate solutions that are technically sound, Economically feasible, and socially acceptable.

PEO4: Perform investigation for solving Civil Engineering problems by conducting research using modern equipment and software tools.

PEO5: Function in multi-disciplinary teams and advocate policies, systems, processes and equipment to support civil engineering.

(Screenshot depicting the dissemination of Program Educational Objectives for the Department of Civil Engineering through the college website at <https://ckec.ac.in/civil-engineering>)



M. Jeyakumar
Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



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II. PROGRAM OUTCOMES (POs)

PO1: Engineering knowledge
Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: 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.

PO3: 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.

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 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 the 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, being able to comprehend and 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 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.

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.

(Screenshot depicting the dissemination of Program Outcomes for the Department of Civil Engineering through the college website at <https://ckeac.ac.in/civil-engineering>)

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III. PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Knowledge of Civil Engineering discipline
Demonstrate in-depth knowledge of Civil Engineering discipline, with an ability to evaluate, analyze and synthesize existing and new knowledge.

PSO2: Critical analysis of Civil Engineering problems and innovation
Critically analyze complex Civil Engineering problems, apply independent judgment for synthesizing information and make innovative advances in a theoretical, practical and policy context.

PSO3: Conceptualization and evaluation of engineering solutions to Civil Engineering
Issues Conceptualize and solve Civil Engineering problems, evaluate potential solutions and arrive at technically feasible, economically viable and environmentally sound solutions with due consideration of health, safety, and socio cultural factors.

(Screenshot depicting the dissemination of the Program Specific Outcomes of Department of Civil Engineering through the college website at <https://ckeac.ac.in/civil-engineering>)



Dr. M. J. YAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

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VISION

- To excel in the field of Computer Science and Engineering, to meet the emerging needs of the industry, society, and beyond

MISSION

- To facilitate quality education to meet the need of profession and society.
- To equip students for emerging technologies with global standards and ethics that aid in societal sustainability.
- To promote research based projects in the emerging areas of computer technology.

(Screenshot depicting the dissemination of the Vision and Mission statement for the Department of Computer Science Engineering through the college website at <https://ckec.ac.in/cse>)

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PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates can

- PEO1: Apply their technical competence in computer science to solve real world problems, with technical and people leadership.
- PEO2: Conduct cutting edge research and develop solutions on problems of social relevance.
- PEO3: Work in a business environment, exhibiting team skills, work ethics, adaptability and lifelong learning.

(Screenshot depicting the dissemination of Program Educational Objectives for the Department of Computer Science Engineering through the college website at <https://ckec.ac.in/cse>)




Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



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Email: principal@ckec.ac.in

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PO9: Individual and team work

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

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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.

(Screenshot depicting the dissemination of Program Outcomes for the Department of Computer Science Engineering through the college website at <https://ckeac.ac.in/cse>)

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PROGRAM SPECIFIC OUTCOMES (PSO)

PSO1: Exhibit design and programming skills to build and automate business solutions using cutting edge technologies.

PSO2: Strong theoretical foundation leading to excellence and excitement towards research, to provide elegant solutions to complex problems.

PSO3: Ability to work effectively with various engineering fields as a team to design, build and develop system applications

(Screenshot depicting the dissemination of Program Specific Outcomes for the Department of Computer Science Engineering through the college website at <https://ckeac.ac.in/cse>)



Dr. M. S. HUMAN, Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



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Karamadai, Coimbatore - 641104

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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VISION :
"To contribute to India's net-zero path and cultivate socially responsible electrical engineers equipped with creativity, courage, and comprehensive knowledge."

MISSION :
Instill Moral and Ethical Values:
Foster the development of moral, ethical, and universal human values among our students.
Advance Renewable Energy Solutions:
Provide a cutting-edge renewable energy platform to facilitate advancements in nano-grid, microgrid, and smart grid technologies.
Empower Proficiency in Motors and Power Electronics:
Empower students with expertise in efficient DC and AC motors while equipping them with modern tools, software, and hardware in power electronics, drives, and control systems. To provide suitable platforms for entrepreneurship and skill development.
Promote Entrepreneurship and Skill Development:
Create conducive platforms that encourage entrepreneurship and facilitate skill development among our students.

(Screenshot depicting the dissemination of the Vision and Mission statement for the Department of Electrical and Electronics Engineering through the college website at <https://ckec.ac.in/electrical-electronics>)

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I. PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates can

- Find employment in Core Electrical and Electronics Engineering and service sectors
- Get elevated to technical lead position and the organization competitively
- Enter in to higher studies leading to the post-graduate and research degree. Become consultant and provide solutions the practical problems of core organization.
- Become an entrepreneur and be part of electrical and electronics product and service industries.

(Screenshot depicting the dissemination of Program Educational Objectives for the Department of Electrical and Electronics Engineering through the college website at <https://ckec.ac.in/electrical-electronics>)




Dr. M. JEYAKUMAR, M.E..Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



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Karamadai, Coimbatore - 641104

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Email: principal@ckec.ac.in

Web: www.ckec.ac.in

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PO12: Life-long learning

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(Screenshot depicting the dissemination of Program Outcomes for the Department of Electrical and Electronics Engineering through the college website at <https://ckec.ac.in/electrical-electronics>)

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PO11: Project management and finance

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PO12: Life-long learning

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III. PROGRAM SPECIFIC OUTCOMES (PSOs)

On completion of Electrical and Electronics Engineering program, the student will have the following Program Specific Outcomes.

Foundation of Electrical Engineering:

Ability to understand the principles and working of electrical components, circuits, systems and control that are forming a part of power generation, transmission, distribution, utilization, conservation and energy saving. Students can assess the power management, auditing, crisis and energy saving aspects.

Foundation of Mathematical Concepts:

Ability to apply mathematical methodologies to solve problems related with electrical engineering using appropriate engineering tools and algorithms.

Computing and Research Ability:

Ability to use knowledge in various domains to identify research gaps and hence to provide solution which leads to new ideas and innovations.

(Screenshot depicting the dissemination of Program Specific Outcomes for the Department of Electrical and Electronics Engineering through the college website at <https://ckec.ac.in/electrical-electronics>)



Dr. M. Jeyakumar, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



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(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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VISION

To establish a hub of expertise that promotes academic excellence in Electronics and Communication Engineering Education and Research, and equips our students with the necessary skills to become proficient professionals serving the community.

MISSION

- We endeavor to establish a distinctive learning environment that prepares students to confront the demands of Electronics and Communication Engineering.
- To provide a structured framework that facilitates professional development, higher education, research endeavors, and fostering innovation.
- Additionally, we emphasize the importance of ethical values and actively promote activities to prepare students for successful careers that address social needs.

(Screenshot depicting the dissemination of the Vision and Mission statement for the Department of Electronics and Communication Engineering through the college website at <https://ckec.ac.in/electrical-communication>)

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I. PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- PEO1:**To provide the students with a strong foundation in the required sciences in order to pursue studies in Electronics and Communication Engineering.
- PEO2:**To gain adequate knowledge to become good professional in electronic and communication engineering associated industries, higher education and research.
- PEO3:**To develop attitude in lifelong learning, applying and adapting new ideas and technologies as their field evolves.
- PEO4:**To prepare students to critically analyze existing literature in an area of specialization and ethically develop innovative and research oriented methodologies to solve the problems identified.
- PEO5:**To inculcate in the students a professional and ethical attitude and an ability to visualize the engineering issues in a broader social context.

(Screenshot depicting the dissemination of Program Educational Objectives for the Department of Electronics and Communication Engineering through the college website at <https://ckec.ac.in/electrical-communication>)




Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



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Karamadai, Coimbatore - 641104

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Email: principal@ckec.ac.in

Web: www.ckec.ac.in

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III. PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Design, develop and analyze electronic systems through application of relevant electronics, mathematics and engineering principles

PSO2: Design, develop and analyze communication systems through application of fundamentals from communication principles, signal processing, and RF System Design & Electromagnetics.

PSO3: Adapt to emerging electronics and communication technologies and develop innovative solutions for existing and newer problems

(Screenshot depicting the dissemination of Program Specific Outcomes for the Department of Electronics and Communication Engineering through the college website at <https://ckec.ac.in/electrical-communication>)



[Signature]
Dr.M.JEYAKUMAR, M.E.,Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chitturampalayam Village,
Karamadai, Mettupalayam Taluk,
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DEPARTMENT OF MECHANICAL ENGINEERING

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VISION

Motivate and groom the students to cater the everchanging industrial demands and social needs

MISSION

- To Provide the students with interpersonal skills, leadership, ethical guidelines and life long learning needed for a long productive career
- To Provide academic environment of excellence for making them globally competitive

(Screenshot depicting the dissemination of the Vision and Mission statement for the Department of Mechanical Engineering through the college website at <https://ckec.ac.in/mechanical-engineering>)

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I. PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates can

PEO1:Effectuating success in careers by exploring with the design, digital and computational analysis of engineering systems, experimentation and teCsting, smart manufacturing, technical services, and research.

PEO2:Amalgamating effectively with stakeholders to update and improve their core competencies and abilities to ethically compete in the ever-changing multicultural global enterprise

PEO3:To encourage multi-disciplinary research and development to foster advanced technology, and to nurture innovation and entrepreneurship in order to compete successfully in the global economy.

PEO4:To globally share and apply technical knowledge to create new opportunities that proactively advances our society through team efforts and to solve various challenging technical, environmental and societal problems.

PEO5:To create world class mechanical engineers capable of practice engineering ethically with a solid vision to become great leaders in academia, industries and society.

(Screenshot depicting the dissemination of Program Educational Objectives for the Department of Mechanical Engineering through the college website at <https://ckec.ac.in/mechanical-engineering>)




Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



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Karamadai, Coimbatore - 641104

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II. PROGRAM OUTCOMES (POs)

PO1: Engineering knowledge

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: 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.

PO3: 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.

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 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 the 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, being able to comprehend and 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 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.

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.

(Screenshot depicting the dissemination of Program Outcomes for the Department of Mechanical Engineering through the college website at <https://ckec.ac.in/mechanical-engineering>)

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comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

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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.

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.

III. PROGRAM SPECIFIC OUTCOMES (PSOs)

On successful completion of the Mechanical Engineering Degree programme, the Graduates shall exhibit the following:

PSO1: Apply the knowledge gained in Mechanical Engineering for design and development and manufacture of engineering systems.

PSO2: Apply the knowledge acquired to investigate research-oriented problems in mechanical engineering with due consideration for environmental and social impacts.

PSO3: Use the engineering analysis and data management tools for effective management of multidisciplinary projects.

(Screenshot depicting the dissemination of Program Specific Outcomes for the Department of Mechanical Engineering through the college website at <https://ckec.ac.in/mechanical-engineering>)



Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL

CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



CHRIST THE KING ENGINEERING COLLEGE

Karamadal, Coimbatore - 641104

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Ph: +91 91500 76729

Email: principal@ckec.ac.in

Web: www.ckec.ac.in

DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE

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VISION

To maintain a "consistently reviving" environment to produce technically competent, well disciplined, socially & environmentally responsible professionals, empowered with the challenging knowledge and skills in the field of Artificial Intelligence and Data Science who are capable of disseminating global contribution for the benefit of society and industry

MISSION

1. To support and guide students to explore and analyse the real world AI&DS related problems
2. To maintain an environment where students can practice ethics, good communication, leadership qualities, socially and environmentally responsible activities
3. To consistently maintain a "fully updated and equipped" ambience for students to encourage & uplift the core domain engineering knowledge, the ability to perceive & analysis problems as AI&DS engineer, the ability to design / develop solutions as AI&DS engineer, the ability to conduct investigations on complex engineering problems, and the ability to use & develop modern tools
4. To impart the habit of life long learning and the habit of developing / creating ideas with the fundamental financial and project management skill to adapt the feasibility

(Screenshot depicting the dissemination of the Vision and Mission statement for the Department of Artificial Intelligence & Data Science through the college website (<https://ckec.ac.in/b-techai>)

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I. PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Utilize their proficiencies in the fundamental knowledge of basic sciences, mathematics, Artificial Intelligence, data science and statistics to build systems that require management and analysis of large volumes of data

PEO2: Advance their technical skills to pursue pioneering research in the field of AI and Data Science and create disruptive and sustainable solutions for the welfare of ecosystems

PEO3: Think logically, pursue lifelong learning and collaborate with an ethical attitude in a multidisciplinary team.

PEO4: Design and model AI based solutions to critical problem domains in the real world.

PEO5: Exhibit innovative thoughts and creative ideas for effective contribution towards economy building

(Screenshot depicting the dissemination of Program Educational Objectives for the Department of Artificial Intelligence & Data Science through the college website (<https://ckec.ac.in/b-techai>)




Dr. M. JEYAKUMAR, M.E., Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadal, Mettupalayam Taluk,
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CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

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II. PROGRAM OUTCOMES (POs)

- PO1:Engineering knowledge:**Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2: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.
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- PO5: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.
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(Screenshot depicting the dissemination of Program Outcomes for the Department of Artificial Intelligence & Data Science through the college website at <https://ckec.ac.in/b-techai>)

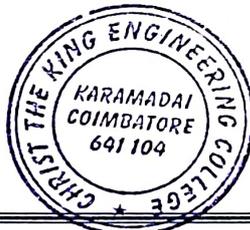
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- being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11:Project management and finance:** Demonstrate knowledge and understanding of the engineering 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.
- 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.

III. PROGRAM SPECIFIC OUTCOMES (PSOs)

- PSO1:**evolve AI based efficient domain specific processes for effective decision making in several domains such as business and governance domains.
- PSO2:**arrive at actionable Foresight, Insight, hindsight from data for solving business and engineering problems
- PSO3:**create, select and apply the theoretical knowledge of AI and Data Analytics along with practical industrial tools and techniques to manage and solve wicked societal problems
- PSO4:**develop data analytics and data visualization skills, skills pertaining to knowledge acquisition, knowledge representation and knowledge engineering, and hence be capable of coordinating complex projects.
- PSO5:**able to carry out fundamental research to cater the critical needs of the society through cutting edge technologies of AI.

(Screenshot depicting the dissemination of the Program Specific Outcomes of Department of Artificial Intelligence & Data Science through the college website at <https://ckec.ac.in/b-techai>)



M. Jeyakumar
Dr. M. JEYAKUMAR, M.E..Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.