



CRITERION – 2 TEACHING - LEARNING AND EVALUATION

2.6 STUDENTS PERFORMANCE AND LEARNING OUTCOME

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

Sl. No.	Contents	Page No.
1	Vision & Mission of the Institute & Program Outcomes (POs)	2
2	Vision & Mission of the Institute – Website screen shot	5
3	Vision & Mission, Program Specific Outcomes (PSOs) & Program Educational Objectives (PEOs) of the various programmes – Website screen shot	6



N. Yum
PRINCIPAL
Jawaharlal College of Engineering & Technology
Jawahar Gardens, Lakkidi, Mangalam, Pin-679301



INSTITUTE

VISION

Emerge as a center of excellence for professional education to produce high quality engineers and entrepreneurs for the development of the region and the Nation.

MISSION

MI1: To become an ultimate destination for acquiring latest and advanced knowledge in the multidisciplinary domains.

MI2: To provide high quality education in engineering and technology through innovative teaching-learning practices, research and consultancy, embedded with professional ethics.

MI3: To promote intellectual curiosity and thirst for acquiring knowledge through outcome based education.

MI4: To have partnership with industry and reputed institutions to enhance the employability skills of the students and pedagogical pursuits.

MI5: To leverage technologies to solve the real life societal problems through community services.



N. Yousuf

PRINCIPAL

Jawaharlal College of Engineering & Technology
Jawahar Gardens, Lakkidi, Mangalam, Pin-679301



**THE FOLLOWING ARE THE PROGRAM OUTCOMES OF UNDER GRADUATE
ENGINEERING DEGREE:**

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.



N. Y.
PRINCIPAL
Jawaharlal College of Engineering & Technology
Jawahar Gardens, Lakkidi, Mangalam, Pin-679301

VISION & MISSION OF THE INSTITUTE



JAWAHARAR COLLEGE
OF ENGINEERING & TECHNOLOGY
ANNA UNIVERSITY, CHENNAI

Not secure | jawahararcolleges.com/about.php

Home Campus Life News & Events Online Enquiry Online Payment Login Contact Us


About Us Departments Academics Admissions Student Support Training & Placement NAAC IQAC NIRF

Jawaharar College of Engineering and Technology (JCET)

Jawaharar College of Engineering and Technology (JCET) Lakkidi, Ottapalam, Palakkad, is one of the top-ranking Educational institutions offering excellence in engineering education. Apart from highly competent and devoted faculty, excellent infrastructure and teaching aids JCET with its enchanting and spectacular topography, lush green vegetation, salubrious climate, has evolved as a notable School of Engineering. It has an integrated approach to Education where academic training goes arm in arm with techniques that develop the body, mind and soul and prepare all its graduates to be future leaders and entrepreneurs.

JCET is affiliated to the A.P. J. Abdul Kalam Technological University, Trivandrum, Kerala from the 2015 admissions onwards, and had been affiliated to the University of Calicut, Kozhikode, Kerala from 2008 to 2014 and is approved by the All India Council for Technical Education, (AICTE), New Delhi.

Jawaharar College of Engineering and Technology is a part of Nehru College of Educational and Charitable Trust, which was founded by Late P.K. Das, B.L.E., P.I. Much E. M.S. Engg. A.E.R.A.S.



ADMISSION

100% Employability

Do you like cookies? We use cookies to ensure you get the best experience on our website. [Learn more](#) [I agree](#)

[←](#)
[→](#)
[C](#)

[Not secure | jawaharlalcolleges.com/about.php](#)

[🔍](#)
[🔗](#)
[★](#)
[📱](#)

[About Us](#)
[Departments](#)
[Academics](#)
[Admissions](#)
[Student Support](#)
[Training & Placement](#)
[NAAC](#)
[IOAC](#)
[NIRF](#)

grown to the stature of being accredited with ISO 9001 : 2015 certification by the International Certification Services. JCET is one of the best self financing college in palakkad.

Vision

Emerge as a centre of excellence for professional education to produce high quality engineers and entrepreneurs for the development of the region and the Nation.

Mission

- To become an ultimate destination for acquiring latest and advanced knowledge in the multidisciplinary domains.
- To provide high quality education in engineering and technology through innovative teaching-learning practices, research and consultancy, embedded with professional ethics.
- To promote intellectual curiosity and thirst for acquiring knowledge through outcome based education.
- To have partnership with industry and reputed institutions to enhance the employability skills of the students and pedagogical pursuits.
- To leverage technologies to solve the real life societal problems through community services.

Do you like cookies? We use cookies to ensure you get the best experience on our website. [Learn more](#) [I agree](#)



N. Y. **PRINCIPAL**
Jawahar College of Engineering & Technology
Jawahar Gardens, Lakkidi, Mangalam, Pin-679301



DEPARTMENT OF AERONAUTICAL ENGINEERING

VISION & MISSION

← → C Not secure | jawaharcolleges.com/aeronautical-engineering.php

Aeronautical Engineering

About | HOD's Desk | **Vision & Mission** | PEO & PSO | Faculty | Facilities | Achievements | Association | News & Events | Downloads | Reference Books

Vision

- To build a strong community of dedicated graduates, with expertise in the field of Aeronautical Engineering to meet the industrial needs and to face the ever changing requirements in aeronautical and aerospace industry.

Mission

- To provide excellent technical education and basics of all fundamental methods to achieve professional success in their careers.
- To inculcate research and development activities to meet the technological changes of the society
- To inspire students to become successful entrepreneurs and educate them professional ethics, human values for the better society.
- To groom industry ready aeronautical engineers through industry institute relationship and value added industrial programs for lifelong learning.

Do you like cookies? We use cookies to ensure you get the best experience on our website. [Learn more](#) [I agree](#)

ADMISSION

PEO

← → C Not secure | jawaharcolleges.com/aeronautical-engineering.php

Aeronautical Engineering

About | HOD's Desk | Vision & Mission | **PEO & PSO** | Faculty | Facilities | Achievements | Association | News & Events | Downloads | Reference Books

Program Educational Objectives (PEO)

- ◆ **Excellence in Career**
To prepare and provide student with an academic environment for students to excel in postgraduate programs or to succeed in industry / technical profession and the life-long learning needed for a successful professional career in Aeronautical Engineering and related fields.
- ◆ **Professional Effectiveness and Contribution to Society**
To provide students with a solid foundation in mathematical, scientific and engineering fundamentals required to solve engineering problems and also to pursue higher studies (Core Competence).
- ◆ **Continuing Education**
To train students with good scientific and engineering breadth so as to comprehend, analyse, design and create novel products and solutions for the real life problems.
- ◆ **Exercising Leadership**
To inculcate in students professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, and an ability to relate engineering issues to broader social context (Professionalism).

Do you like cookies? We use cookies to ensure you get the best experience on our website. [Learn more](#) [I agree](#)

ADMISSION



N. Y...
PRINCIPAL
Jawahar College of Engineering & Technology
Jawahar Gardens, Lakkidi, Mangalam, Pin-679301



DEPARTMENT OF AERONAUTICAL ENGINEERING

PSO

← → 🔍 Not secure | jawaharlalcolleges.com/aeronautical-engineering.php

About Us • Departments • Academics • Admissions • Student Support • Training & Placement • NAAC • ISOAC • NIRF

We train students with good scientific and engineering background to be competent, analytical, design and create better products and solutions for real world problems.

♦ **Exercising Leadership**

To inculcate in students professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, and an ability to relate engineering issues to broader social context (Professionalism).

Program Specific Outcomes (PSOs)

The students will be able to

- Utilize the knowledge of aeronautical/aerospace engineering in innovative, dynamic and challenging environment for design and development of new products.
- Demonstrate the knowledge of advanced software tools for design specification, development such as fabrication, analysis such as testing and operation of the physical systems, components and processes involved in aeronautical engineering.

Other Links

- B.Tech. Aeronautical Engineering
- B.Tech. Civil Engineering
- B.Tech. Computer Science
- B.Tech. Electronics and

ADMISSION

Do you like cookies? We use cookies to ensure you get the best experience on our website. [Learn More](#) [I agree](#)



N. Yousuf
PRINCIPAL
Jawaharlal College of Engineering & Technology
Jawahar Gardens, Lakkidi, Mangalam, Pin-679301



Jawaharlal College of Engineering and Technology

Jawahar Gardens, Ottapalam, Kerala - 679301



DEPARTMENT OF CIVIL ENGINEERING

VISION & MISSION

← → ↻ Not secure | jawaharlalcolleges.com/civil-engineering.php

Civil Engineering

About | HOD's Desk | **Vision & Mission** | PEO & PSO | Faculty | Facilities | Achievements | Association | News & Events | Downloads | Funded Projects | Reference Books

Vision

- To be recognized globally for pre-eminence in Civil Engineering education, research and service.

Mission

- To produce competent Civil Engineers to meet the challenges in construction field through technology and research projects.
- To practice the students towards the development of infrastructure technologies for sustainability.
- Striving to make responsible engineers committed to society and the nation with employable skills.
- To interact with industries and address issues related to infrastructure, public health and environmental protection for sustainable development.

Do you like cookies? We use cookies to ensure you get the best experience on our website. [Learn more](#) [I agree](#)

ADMISSION

PEO & PSO

← → ↻ Not secure | jawaharlalcolleges.com/civil-engineering.php

Civil Engineering

About | HOD's Desk | Vision & Mission | **PEO & PSO** | Faculty | Facilities | Achievements | Association | News & Events | Downloads | Funded Projects | Reference Books

Program Educational Objectives (PEOs)

Graduates of Civil Engineering shall

- Have Successful careers in civil and allied engineering to meet the demanding needs by inculcating professionalism and ethics to thrive in the field.
- Enhance core competence to pursue higher education or venture into research.
- Have lifelong learning skills, professional ethics and good communication capabilities along with entrepreneur skills and leadership, so that they can succeed in their life.

Program Specific Outcomes (PSOs)

The students will be able to

- Plan, analyse, design and construct innovative infrastructure and implement sustainable solutions based on requirement of real life problems.
- Flourish the skills of civil engineering by seeking assistance from indispensable software technology.

Do you like cookies? We use cookies to ensure you get the best experience on our website. [Learn more](#) [I agree](#)

ADMISSION



N. Y.
PRINCIPAL
Jawaharlal College of Engineering & Technology
Jawahar Gardens, Lakkidi, Mangalam, Pin-679301



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

VISION & MISSION

← → ↻ ⚠ Not secure | jawaharcolleges.com/computer-science.php 🔍 🌐 ⚙ M

Computer Science and Engineering

About | HOD's Desk | **Vision & Mission** | PEO & PSO | Faculty | Facilities | Achievements | Association | News & Events | Downloads | Reference Books

Vision
To produce competent professionals with research and innovative skills, by providing them with the most conducive environment for quality academic and research oriented undergraduate education along with moral values committed to build a vibrant nation.

Mission

- Provide a learning environment to develop creativity and problem solving skills in a professional manner.
- Expose to latest technologies and tools used in the field of computer science.
- Provide a platform to explore the industries to understand the work culture and expectation of an organization.

Do you like cookies? We use cookies to ensure you get the best experience on our website. [Learn more](#) [I agree](#)

ADMISSION

PEO & PSO

← → ↻ ⚠ Not secure | jawaharcolleges.com/computer-science.php 🔍 🌐 ⚙ M

Computer Science and Engineering

About | HOD's Desk | Vision & Mission | **PEO & PSO** | Faculty | Facilities | Achievements | Association | News & Events | Downloads | Reference Books

Program Educational Objectives (PEOs)
Graduates will be able to

- Provide high-quality knowledge in computer science and engineering required for a computer professional to identify and solve problems in various application domains.
- Persist with the ability in innovative ideas in computer support systems and transmit the knowledge and skills for research and advanced learning.
- Manifest the motivational capabilities and turn on a social and economic commitment to community services.

Program Specific Outcomes (PSOs)
The students will be able to

- Use fundamental knowledge of mathematics to solve problems using suitable analysis methods, data structure and algorithms.
- Interpret the basic concepts and methods of computer systems and technical specifications to provide accurate solutions.

Do you like cookies? We use cookies to ensure you get the best experience on our website. [Learn more](#) [I agree](#)

ADMISSION



N. Y. J.
PRINCIPAL
Jawahar College of Engineering & Technology
Jawahar Gardens, Lakkidi, Mangalam, Pin-679301



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VISION & MISSION

← → C Not secure | jawaharcolleges.com/electronics-and-communication-engineering.php

Electronics and Communication Engineering

About | HDD's Desk | **Vision & Mission** | PEO & PSO | Faculty | Facilities | Achievements | Association | News & Events | Downloads | Reference Books

Vision

- To become a centre of academic excellence in the field of ECE in order to raise engineer with international standards with ethical values & ability to apply acquired knowledge for solving technologically challenging societal problems.

Mission

- To impart high quality education through innovative and comprehensive instructional materials in the area of ECE.
- To develop research linkages with organizations in India & abroad and to establish industry interface to expose students to the industrial environment.
- To develop a committed group of faculty striving for excellence in teaching & research in the emerging fields in ECE.
- To provide ethical & value based education for promoting essence of responsibility towards nation building social causes and environmental conservation.

Do you like cookies? We use cookies to ensure you get the best experience on our website. [Learn more](#) [I agree](#)

ADMISSION

PEO & PSO

← → C Not secure | jawaharcolleges.com/electronics-and-communication-engineering.php

Electronics and Communication Engineering

About | HDD's Desk | Vision & Mission | **PEO & PSO** | Faculty | Facilities | Achievements | Association | News & Events | Downloads | Reference Books

Program Educational Objectives

- To Provide a Solid Foundation in Electronics and Communication Engineering Essentials with an Attitude to Pursue Higher Education, Participation in Research & Development Activities, and Involvement in Lifelong Learning & Professional Development.
- Obtain In-Depth Knowledge of the Core Discipline of Electronics & Communication Engineering so that they will be able to Establish Engineering Standards and Overcome Realistic Constraints in Systematic Engineering Processes with the Incorporation of Industries' Expectations and Design Socially Accepted and Economically Feasible Solutions in the Respective Fields.
- To Make the Student Communicate Effectively, Lead a Team with Good Leadership Traits, and Exhibit Professional Conduct.

Program Specific Outcomes (PSOs)

The students will be able to

- Apply Science & Mathematics through Differential and Integral Calculus, To Solve Complex Electronics and Communication Engineering Problems.
- Attain the Ability to Interpret the Basic Concepts and Methods of Electronic Systems and Technical Specifications to Provide Accurate Solutions.

Do you like cookies? We use cookies to ensure you get the best experience on our website. [Learn more](#) [I agree](#)

ADMISSION




N. J. J.
PRINCIPAL
Jawahar College of Engineering & Technology
Jawahar Gardens, Lakkidi, Mangalam, Pin-679301



DEPARTMENT OF MECHANICAL ENGINEERING

VISION & MISSION

← → ↻ ⚠ Not secure | jawaharcolleges.com/mechanical-engineering.php 🔍 📄 ⭐ 📱 M ☰



Mechanical Engineering

About HDD's Desk **Vision & Mission** PEO & PSO Faculty Facilities Achievements Association News & Events Downloads Reference Books

Vision

- To Bring in Holistic Development and Achieve Global Level Excellence in Imparting Academic and Industry Oriented Knowledge and Skills to Mechanical Engineering Scholars to Keep them in Demand by Major Players in Engineering Field World Over.

Mission


- To Provide Infrastructure Facilities, Teaching Aids, and Ambience to Students to Enable them Acquiring State-of-the-Art Technical Know-How Through Competent and Committed Faculty.
- To Equip Them with Entrepreneurial Expertise Through Industry Interaction for Making Them Employers Rather Than Employees.
- To Mould the Students as True Citizens with Necessary Coaching and Equipping with Tools for Meeting Societal Needs and Enabling them to Become Efficient and Capable

Do you like cookies? We use cookies to ensure you get the best experience on our website. [Learn more](#) [I Agree](#)

ADMISSION

PEO & PSO

← → ↻ ⚠ Not secure | jawaharcolleges.com/mechanical-engineering.php 🔍 📄 ⭐ 📱 M ☰



Mechanical Engineering

About HDD's Desk **Vision & Mission** **PEO & PSO** Faculty Facilities Achievements Association News & Events Downloads Reference Books

Program Educational Objectives (PEOs)

- The Graduates will Apply their Knowledge in Mechanical Engineering and Proficiency in Using Various Software to Design, Manufacture, Test, Analyze and Ensure Quality Aspects, Inculcating Lifelong Learning.
- The Graduates will Acquire Various Important Entrepreneurial Qualities as Part of Self-Development Qualities such as Leadership Team Building Communication Problem Solving Decision Making, Software, and Creative Skills Leading to Societal Contributions and Overall Career Development.
- The Graduates will be Aware of their Role with Respect to their Responsibilities and Services Linked with Employers, Society, Peers, and Ethical Values Throughout their Careers.

Program Specific Outcomes (PSOs)

The Students will have

- Proficiency in Conceiving Design Ideas, Developing Proto-Models, Fabrication, Testing, and Analysis Through Software Tools and thus Achieving Capabilities Needed for an Efficient Mechanical Engineer.
- Capability Based on Knowledge, Skill, Aptitude, and Attitude to Comprehend Engineering Aspects of Various Machine Elements, Production Processes, and Various Systems.

Do you like cookies? We use cookies to ensure you get the best experience on our website. [Learn more](#) [I Agree](#)

ADMISSION



N. Yousuf
PRINCIPAL
Jawahar College of Engineering & Technology
Jawahar Gardens, Lakkidi, Mangalam, Pin-679301