



ADITYA ENGINEERING COLLEGE

An Autonomous Institution

Approved by AICTE • Permanently Affiliated to JNTUK • Accredited by NAAC with 'A' Grade

Recognised by UGC under sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

Programme: Mining Engineering

Vision & Mission

Bridge Course 2022-23

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Talent is the Miner who works on it & Brings it Out
MINING ENGINEERING

Department of Mining Engineering

Our Vision

To prepare the graduates in the major fields of mining engineering at par with international standards.

Quick Links

- About
- Our Vision
- Our Mission
- Programmes offered
- PO
- PSO
- PEO

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Vision

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Home About Us Autonomous Infrastructure Examinations Academics Research Departments Campus life Placements IQAC Downloads

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MINING ENGINEERING

Department of Mining Engineering

Our Mission

M1:
By upgrading mining engineering education through training of faculties regularly.

M2:
By providing state of the art laboratory facilities & constantly updating it.

M3:
By exposing the real time technologies practiced in mining industries.

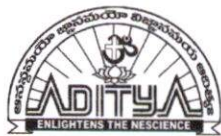
Quick Links

- About
- Our Vision
- Our Mission
- Programmes offered
- PO
- PSO
- PEO
- Faculty / Supporting Staff
- Advanced Learners and Slow Learners
- Facilities

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Mission

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Program Outcomes (POs)

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Home About Us Autonomous Infrastructure Examinations Academics Research Departments Campus life Placements IQAC Downloads

Department of Mining Engineering

PROGRAM OUTCOMES

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

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

PO 3:
Design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

PO 4:
Conduct investigations of complex problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions

PO 5:
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

Quick Links

- > About
- > Our Vision
- > Our Mission
- > Programmes offered
- > PO
- > PSO
- > PEO
- > Faculty / Supporting Staff
- > Advanced Learners and Slow Learners
- > Facilities
- > Newsletters
- > Laboratory

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Home About Us Autonomous Infrastructure Examinations Academics Research Departments Campus life Placements IQAC Downloads

PO 6:
Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

PO 7:
Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of, and need for sustainable development.

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

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

PO 10:
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

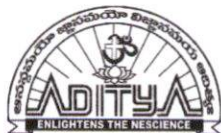
PO 11:
Demonstrate knowledge and understanding of engineering management principles and apply these to one's own work, as a member and leader in a team and to manage projects in multidisciplinary environments.

PO 12:
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.

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Program Specific Outcomes (PSOs)

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MINING ENGINEERING

Department of Mining Engineering

PROGRAM SPECIFIC OUTCOMES

PSO 1:
Identify, formulate, and solve Mining & Mineral engineering problems

PSO 2:
Use the techniques, skills, and modern engineering tools, like mine planning and blast optimization software necessary for Mining engineering practice

PSO 3:
Pursue broad education necessary to understand the impact of Mining Engineering solutions in a global and societal context.

Quick Links

- > About
- > Our Vision
- > Our Mission
- > Programmes offered
- > PO
- > **PSO**
- > PEO
- > Faculty / Supporting Staff
- > Advanced Learners and Slow Learners
- > Facilities

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Program Educational Objectives (PEOs)

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MINING ENGINEERING

Department of Mining Engineering

PROGRAM EDUCATIONAL OBJECTIVES

PEO 1:
Advance in their careers, adapting to new situations and emerging problems, in a variety of professional roles such as mine planner, designer, production manager, mineral processing engineer, consultant, technical support representative and regulatory specialist.

PEO 2:
Pursue advanced degrees in mineral-related fields.

PEO 3:
Display professional skills such as effective communication, teamwork, and leadership

PEO 4:
Play critical role as a mining engineer in society with respect to health, safety, and the environment in tangible ways such as achieving professional licensure.

Quick Links

- > About
- > Our Vision
- > Our Mission
- > Programmes offered
- > PO
- > **PSO**
- > **PEO**
- > Faculty / Supporting Staff
- > Advanced Learners and Slow Learners
- > Facilities
- > Newsletters
- > Laboratory

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