NBA *ACCREDITATION AWARNESS PROGRAM*

Issues in Higher Education

- Accountability towards students – fulfilling requirements of the curriculum
- Satisfying needs of industry – unemployed graduates
- Maintaining academic standards – unaccredited programs
- Accountable to grant provided by parents/Guardians of the students to the college – stakeholders
- Accreditation – outcome based education

What does Accreditation mean?

- Recognition and guarantee of minimum quality.

- A Process of quality assurance, giving credit where it is due, for some clearly visible and demonstrable strategies of academic activities and objectives of the institution, known to be honestly pursued and efficiently achieved by the resources currently available, with potential for continuous improvement in quality for effective growth.

What does the Accreditation Signify?

- **For the Parents and Students**

  It signifies that their child goes through a teaching-learning environment as per accepted good practices, and that the student has entered an institution, which has the essential features of Quality Professional Education.

- **For the alumni**

  It signifies attachment through the pride of passing out of an institution with high credentials.

What does the Accreditation Signify?

- ## For the employers.

  It signifies that the institutional performance is based assessment through a competent body of Quality assessors, with of strengths & Weaknesses emanating as a feedback for policy-making.

- ## For the Institution

  It signifies its strengths, weaknesses and opportunity for future growth.

Outcome based Education System

Definition

Outcome-based education (OBE) are methods that focus on empirically(is a source of [knowledge](#) acquired by means of [observation](#) or [experimentation](#)) measuring student performance (the "outcome").

Outcome-based education is an effort of education that converges the traditional focus on what the school provides ([Means](#) + Ends) to students, in favor of making students demonstrate that they "know and are able to do" whatever the required outcomes are.

Outcome based Education System

Why OBE?

- Focuses on student learning by:

    Using learning outcome statements to make explicit what the student is expected to be able to know, understand or do;

    Providing learning activities which will help the student to reach these outcomes;

    Assessing the extent to which the student meets these outcomes through the use of explicit assessment criteria.

- A commitment that all students of all groups will ultimately reach the same minimum standards. Schools may not "give up" on unsuccessful students.

National Board of Accreditation (NBA)

✓ The **National Board of Accreditation** (**NBA**), India was established by <u>AICTE</u> (All India Council of Technical Education) as an autonomous body under section 10(u) of AICTE act, 1987 for periodic evaluations of technical institutions & programmes basis according to specified norms and standards as recommended by AICTE council.

✓ It is the only authorized body in India entrusted with the task of undertaking accreditation of technical education programmes

What is the NBA's Quality Grading ?

Accredited Programme for 5 Years

[when cumulative score is above 750]

signifies that programme meets and in most cases exceeds the criteria.

Accredited Programme for 2 Years

[when cumulative score is between 600 and 749]

Signifies that programme meets the minimum criteria with marginal deficiencies which can be rectified in a short time.

What happens if there is no Accreditation ?

It is to ensure that the institution, indeed has likely to have in near future, the necessary resources for qualitative technical education.

It is to ensure that the Institutional products meet industry requirements but are acceptable human resources in the global job market sector.

What happens if there is no Accreditation ?

It is not possible to sustain the present institutional growth rate and ensure maintenance of credible programs.

It is not possible to correct existing imbalances in generation of quality technical manpower.

Mission and Vision of Institute

VISION

" Engineering the future of the nation by transforming the students to be technically skilled managers, innovative leaders and environmentally receptive citizens"

MISSION

• To implement holistic approach in curriculum and pedagogy through Industry Integrated Interactions to meet the needs of Global Engineering Environment.

• To develop students with knowledge, attitude and skill of employability, entrepreneurship (Be Job creators than job seekers), research potential and professionally ethical citizens.

Mission and Vision of Department

VISION

"Create a center of global standard for imparting education in Mechanical Engineering field and conducting research at the cutting edge of technology to meet the current and future challenges of technological development".

MISSION

"Build enabling environment for excellent teaching, learning and research in order to produce leading entrepreneurs and innovators in the field of Mechanical Engineering for sustainable improvement".

Programme Educational Objectives

A. Mechanical Graduates will have strong fundamental technical knowledge and are capable to develop core competency in diversified areas such as Production, Design, Thermal, Industrial and allied fields with the use of software tools to expand their knowledge horizon and inculcate lifelong learning.

B. Graduates will have effective communication, leadership, team building, problem solving, decision making skills, software and creative skills by understanding contemporary issues there by contributing to their overall personality and career development.

C. Graduates will practice ethical responsibilities and service towards their peers, employers, society and follow these percepts in their daily life.

Program Outcomes

Graduate Attributes	Program Outcomes
Engineering Knowledge	Graduates will have the ability to demonstrate knowledge of mathematics such as multi-variable calculus, Differential equations, science and engineering.
Problem Analysis	Graduates will have the ability to demonstrate an ability to identify, formulate and solve mechanical engineering problems.
Design & Development of Solutions	Graduates will have the ability to Model, analyze, design and realize physical systems, components or processes.
Investigation of Complex Problem	Graduates will have the ability to Plan and conduct an experimental program and evaluate the results.

Program Outcomes

Graduate Attributes	Program Outcomes
Modern Tools Usage	Graduates will have the ability to use modern engineering tools, software and equipment to analyze problems.
Engineer and Society	Graduates will have the ability to understand the global, societal context of engineering.
Environment & Sustainability	Graduates will have the ability to provide mechanical engineering solutions to green and sustainable development.
Moral, Ethical & Social values	Graduates will have the ability to demonstrate knowledge of professional and ethical responsibilities.

Program Outcomes

Graduate Attributes	Program Outcomes
Individual & Team work	Graduates will have the ability to work with others to accomplish common goals.
Communication	Graduates will have the ability to communicate effectively in both verbal and written form
Lifelong Learning	Graduates will have the ability to develop confidence for self education and ability for life-long learning.
Project management & Finance	Graduates will have the ability to complete a project with financial management skill.

Program Specific Outcomes

1. Graduates will demonstrate the knowledge of applied mathematics and 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 mechanical engineering.

2. Graduates will demonstrate the knowledge, skill and attitude to analyze the cause and effects on machine elements, processes and systems.