



LECHEMNEWS

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Benefits & Significance of NBA Accreditation

Accreditation is a tool that stakeholders use to monitor, assess and evaluate the standards and quality of the education a student receives at a college, university or other institution of higher learning. Some of the major benefits enrolled students receive by attending an accredited institution/program are as follows:

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- **Accredited institution/program offers the highest quality education available**
- **Accredited institution / program strengthens consumer's confidence, employers value degrees of an accredited program the most;**
- **Accreditation helps institutions to know their strengths, weaknesses and opportunities, pushes them to continuously improve their programs and give them a new sense of direction, identity and targets; and**
- **Accredited institution/program demonstrates accountability to the public, commitment to excellence and continuous quality improvement.**

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MESSAGE FROM PRINCIPAL'S DESK

DR. SAURABH
PANDAYA

Dear students and faculty members, it's a matter of great pleasure, that Chemical Engineering Department is going to publish the second newsletter of their department.

At this time, we can see tremendous advancement of technology around the world. All stake holders of the academic institutions are looking for quality education. Role of educational institutions is to transform students into competent and well-behaved person in the society and professional community.

At Lukhdhirji Engineering College (L E College), Morbi, we are also attempting our best to produce quality engineers as per the demand of industries and society.

With best wishes

Dr. S N Pandya



LUKHDHIRJI ENGINEERING COLLEGE, MORBI

VISION

To provide quality engineering education and transforming students into professionally competent and socially responsible human beings.

MISSION

- 1. To provide a platform for basic and advanced engineering knowledge to meet global challenges.*
- 2. To impart state-of-art know-how with managerial and technical skills.*
- 3. To create a sustainable society through ethical and accountable engineering practices.*

MESSAGE FROM HOD'S DESK

DR. R.K. MEWADA

Greetings. Hope you may find this e-copy of "LEC CHEM-NEWS" in best of your health. It is an immense pleasure to publish this second news letter of Chemical Engineering Department, L.E. College, Morbi.

Quality is an important aspect of education. At Chemical Engineering Department, we strive for quality education. Currently we are preparing for NBA accreditation and may apply soon for the same.

To accomplish this quality mission of providing professionally competent & socially accountable Chemical Engineers, the Chemical Engineering Department at Lukhdhirji Engineering College, Morbi has initiated various activities associated with teaching learning process.

E-copy of this issue will be circulated to all our alumni/alumnae and other stake holders. I Hope everyone may like this. All stake holders of the department can give their feedback and suggestions for further improvement in our efforts and for better output.

Regards,
Dr R K Mewada



CHEMICAL ENGINEERING DEPARTMENT

VISION

To develop professionally competent & socially responsible chemical engineers by providing quality education.

MISSION

- 1. To provide sound basic engineering knowledge to have a successful career in a professional environment.***
- 2. To develop skill sets among the students to make them professionally competent.***
- 3. To cater to ethically strong engineers who shall be able to improve the quality of life and to work for the sustainable development of society.***

PEO's

PEO-1 To impart knowledge and skills to students to make them professionally competent in chemical process industries.

PEO-2 To motivate students for higher studies in technical and management fields.

PEO-3 To prepare students to have soft skills along with leadership quality and management ability to make them successful entrepreneurs.

PEO-4 To implant the ethical principle and norms of engineering practices in terms of health, safety, and environmental context for the sustainable development of society.

Program Outcomes (POs)

Engineering Graduates will be able to:

- 1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 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.
- 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 public health and safety, and the cultural, societal, and environmental considerations.
- 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.
- 5. Modern tool usage:** 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.
- 6. The engineer and society:** Apply to reason informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 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.
- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and teamwork:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 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.
- 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.
- 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.

Program Specific Outcomes (PSOs)

- 1. Apply the knowledge of chemical engineering to accomplish the contemporary need of chemical & Allied Industries.**
- 2. To execute the chemical engineering principle and modern engineering tools to design system by considering safety, cost, health, legal, cultural and environmental aspects.**

Trainings accomplished by faculty

The following faculty members have successfully completed trainings in given topic:

Sr.No.	Name of Faculty	Title of Program	Organized by	Duration
1.	Prof. D.K Mehta	The Role of Green Chemical Technology in Sustainable Development	GEC, Bharuch	05/04/2021-16/04/2021

Expert Lectures delivered by faculty

Sr.No.	Name of Faculty	Name of Institute/Industry interacted	Area of Expertise/Subject	Duration
1.	Dr R.K Mewada	SAL, College of Engineering, Ahmedabad	Challenges & Solutions using Advancement in Chemical Reaction Engineering & Catalysis	05/01/2021
2.	Dr R.K Mewada	Hydrogen- Future Fuel	GEC, Bharuch	12/04/2021

Training/ Courses completed by Students

The following students have successfully completed trainings in given topic:

Sr.No.	Name of Student	Title of Program	Organized by	Duration
1.	Raval Krunal Shambhubhai	Fire Safety	Gujarat Technological University	23/06/2021
2.	Raval Krunal Shambhubhai	Fire Safety Awareness	Gujarat Technological University	24/03/2021-25/03/2021



Spiritual knowledge shared by Faculty.



न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ।
तत्स्वयं योगसंसिद्धः कालेनात्मनि विन्दति ॥



Result Analysis

The academic performance of our department has been summarized, according to the semesters as follows:

Sr. No.	Semester	Full Name of the Subject with Subject Code	Total No. of students appeared in exam	No. of students obtained (and % of students in bracket)	Overall result of course
				FF grade (Fail)	%
1	VII	2170501 Chemical Reaction Engineering - II	55	7	87.27
2	VII	2170502 Process Equipment Design -II	55	1	98.18
3	VII	2170503 Plant Design & Project Engineering	55	5	90.91
4	VII	2170505 Energy Technology	55	4	92.73
5	VII	2170507 Computer Aided Process Synthesis	55	4	92.73

Sr. No.	Semester	Full Name of the Subject with Subject Code	Total No. of students appeared in exam	No. of students obtained (and % of students in bracket)	Overall result of course
				FF grade (Fail)	%
1	V	3150004 Contributor Personality Development Program	62	1	98.0
2	V	3150501 Mass Transfer Operations-1	62	9	85.4
3	V	3150502 Mechanical Operations	62	7	88.7
4	V	3150504 Instrumentation and Process Control	62	8	87.1
5	V	3150506 Chemical Process Plant Design & Economics	62	4	93.5
6	V	3150507 Energy Technology	62	5	91.9

Sr. No	Semester	Full Name of the Subject with Subject Code	Total No. of students appeared in exam	No. of students obtained (and % of students in bracket)	Overall result of course
				FF grade (Fail)	%
1	III	3130004 Effective Technical Communication	83	13	84.3
2	III	3130007 Indian Constitution	83	5	93.9
3	III	3130502 Fluid Flow Operations	83	15	81.9
4	III	3130506 Applied Chemistry	83	8	90.3
5	III	3130507 Chemical Engineering Thermodynamics-1	83	17	79.5
6	III	3130508 Material & Energy Balance Computation	83	15	81.9



MAY 2021 PASS-OUT STUDENTS

