



Babu Banarasi Das Northern
India Institute Of Technology

Department of
Mechanical Engineering

NEWS **LETTER**

2025 – 2026



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THE CHAIRPERSON'S MESSAGE

MRS. ALKA DAS
M.B.A., L.L.B.,
Advocate & Social
Worker Chairperson,
BBD Group



A lady with spirit, determination and zeal, Mrs. Alka Das has been the driving force behind her husband Dr. Akhilesh Das. She is the daughter of Late Justice D. P. Gupta, who held high positions in the State of Rajasthan, as its Governor and Chief Justice. She was brought up on Gandhian ideals and philanthropic traditions. Mrs. Das is a Management expert and a legal luminary who has a long involvement with issues of social justice and women empowerment in our country. She is a legal consultant to several reputed organizations and an active Social Worker. She is connected with many National Social & Educational Organizations. She is also a Life Member of the "Rajasthan High Court Bar Association". The establishment of Northern India Engineering College, Lucknow was an initiative taken by her to provide quality professional education to match the International Standards. She has travelled extensively to countries like Denmark, Italy, Japan, France, Switzerland, UK and USA to study the pattern of education and facilities provided to the students there. As a Co-founder of Babu Banarasi Das Group of Educational Institutions, Mrs. Das has made a fertile attempt to nurture a generation of self-made and highly motivated students with an inbuilt commitment to do something constructive for the Country.

DIRECTOR'S MESSAGE

Prof. (Dr.) V. K. Singh
Director(Engg.)



Dear Readers, ***“Education is the most powerful weapon which you can use to change the world.” – Nelson Mandela*** It gives me immense pleasure to introduce the latest edition of our college magazine at Babu Banarasi Das Northern India Institute of Technology (BBDNIIT), Lucknow. Since its inception, BBDNIIT has been committed to providing quality technical education and developing competent technocrats who are socially sensitive and committed to excellence on a global scale. For over 17 years, BBDNIIT has stood as a beacon of academic excellence and innovation in the field of engineering. Our esteemed faculty, state-of-the-art infrastructure, and rigorous academic processes are all geared towards nurturing talent and fostering an environment of growth and learning. In this magazine, you will find a vibrant showcase of the creativity, dedication, and hard work of our students and faculty. It reflects the dynamic and inclusive community we have cultivated, where every student is encouraged to pursue their passions and excel both academically and personally. Our systematic teaching-learning process prepares students for the challenges ahead, equipping them with the knowledge, skills, and ethical values necessary to make significant contributions to society. The global technology landscape is evolving rapidly, and to remain competitive, our students must be prepared to face new challenges head-on. BBDNIIT is dedicated to training students to meet these challenges with confidence and competence. We continue to strive for excellence in professional education, aiming for new heights and fostering a thinking, professional order. I encourage all students to make the most of their time with our dedicated faculty and staff, to develop their proficiency, and to grow both personally and professionally. The doors of our faculty members are always open for guidance and support. With best wishes for your continued success and growth.

MESSAGE FROM HEAD OF DEPARTMENT

Prof. (Dr.) NAGENDRA KUMAR MISHRA
Head of Department – ME



Welcome to the Department of Mechanical Engineering at Babu Banarasi Das Northern India Institute of Technology, Lucknow. We have a strong undergraduate program in mechanical engineering. Our students work in almost every technology-based industry: automotive, steel and materials, robotics and manufacturing. Our goal for undergraduate students is to give them a high-quality engineering education that includes hands-on experience. In their curriculum, they are encouraged to take up mini and major projects to supplement theoretical knowledge with practical experience. These projects enable them to understand the relevance of working in a group and also help them to realize the finer aspects and importance of teamwork. The faculty members work with capable students on individual projects. The teaching learning is carried out using latest techniques of pedagogy. It is our endeavor to inculcate in the students adequate level of knowledge, skill and attitude.

The department has a distinguished record in teaching and can boast of faculty members having excellent academic credentials and teaching expertise.

We strive to ensure that all our undergraduate students have a strong education with teaming and leadership skills, involvement in extra-curricular activities, and the practical background of internship experience. We believe that emphasizing these areas will make our students well qualified to take leadership roles in the future.

Whether you are a current or former student, a potential student, or a visitor, please feel free to contact or visit us.

INSTITUTE VISION

To establish a multi-disciplinary environment with excellence in technical education and research for developing competent professionals who meet the challenges of industrial and societal development with human values and ethics.

INSTITUTE MISSION

- To provide an excellent environment with supporting infrastructure to prepare globally competent professionals acceptable to industry and society.
- To inculcate a spirit of research, innovation and entrepreneurship by exposing multi-disciplinary approach.
- To motivate aspiring graduates to solve real life problems with zeal of lifelong learning.
- To imbibe a healthy environment which helps to develop intellectual capabilities among graduates to transform them into professionals with human values and ethics.

DEPARTMENT VISION

To be a leading center in Mechanical Engineering by providing value-based quality education that nurtures competent, versatile, and entrepreneurial professionals capable of excelling at the global level.

DEPARTMENT MISSION

M1: To deliver quality education using cutting edge infrastructure for producing competent professionals.

M2: To encourage students to pursue higher education and explore entrepreneurial skills through innovation to serve society at large.

M3: To inculcate the values of leadership & integrity with sensitivity for societal issues.

PROGRAMME EDUCATIONAL OBJECTIVES

- **PEO 1:** Graduates will be able to apply domain knowledge for employment, advanced studies, entrepreneurial activities and for facing challenges in professional life.
- **PEO 2:** Graduates will exhibit professionalism through effective communication skills, ethical values, and social responsibility.
- **PEO 3:** Graduates will demonstrate team spirit and leadership qualities and engage in lifelong learning to contribute to nation-building.

PROGRAMME OUTCOMES

PO1: **ENGINEERING KNOWLEDGE:**

- Can Apply knowledge of mathematics, natural science, computing, engineering fundamentals and engineering specialization as specified in **WK1 to WK4** respectively to develop to the solution of complex engineering problems.

PO2: **PROBLEM ANALYSIS:**

- Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. **(WK1 to WK4)**

PO3: **DESIGN/DEVELOPMENT OF SOLUTIONS:**

- Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. **(WK5)**

PO4: **CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS:**

- Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis interpretation of data to provide valid conclusions. **(WK8).**

PO5: **ENGINEERING TOOL USAGE:**

- Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. **(WK2 and WK6)**

PO6: **THE ENGINEER AND THE WORLD:**

- Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment **(WK1, WK5, and WK7).**

PROGRAMME OUTCOMES

PO7: **ETHICS:**

- Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. **(WK9)**

PO8: **INDIVIDUAL AND COLLABORATIVE TEAM WORK:**

- Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

PO9: **COMMUNICATION:**

- Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences.

PO10: **PROJECT MANAGEMENT AND FINANCE:**

- Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

PO11: **LIFE LONG LEARNING:**

- Recognize the need for, and have the preparation and ability for:
 - i) independent and life-long learning
 - ii) adaptability to new and emerging technologies and
 - iii) critical thinking in the broadest context of technological change. **(WK8)**

PROGRAMME OUTCOMES

KNOWLEDGE AND ATTITUDE PROFILE(WK)

WK1: A systematic, theory-based understanding of the natural sciences applicable to the discipline and awareness of relevant social sciences.

WK2: Conceptually-based mathematics, numerical analysis, data analysis, statistics and formal aspects of computer and information science to support detailed analysis and modelling applicable to the discipline.

WK3: A systematic, theory-based formulation of engineering fundamentals required in the engineering discipline.

WK4: Engineering specialist knowledge that provides theoretical frameworks and bodies of knowledge for the accepted practice areas in the engineering discipline; much is at the forefront of the discipline.

WK5: Knowledge, including efficient resource use, environmental impacts, whole-life cost, re-use of resources, net zero carbon, and similar concepts, that supports engineering design and operations in a practice area.

WK6: Knowledge of engineering practice (technology) in the practice areas in the engineering discipline.

WK7: Knowledge of the role of engineering in society and identified issues in engineering practice in the discipline, such as the professional responsibility of an engineer to public safety and sustainable development.

WK8: Engagement with selected knowledge in the current research literature of the discipline, awareness of the power of critical thinking and creative approaches to evaluate emerging issues.

WK9: Ethics, inclusive behavior and conduct. Knowledge of professional ethics, responsibilities, and norms of engineering practice. Awareness of the need for diversity by reason of ethnicity, gender, age, physical ability etc. with mutual understanding and respect, and of inclusive attitudes.

PROGRAMME SPECIFIC OUTCOME

On completion of the B.Tech. Mechanical Engineering degree the graduates will be able to:

PSO-1: Graduates will be able to apply the fundamentals of thermal engineering, production engineering, and design engineering to provide solutions in the field of Mechanical Engineering and interdisciplinary areas.

PSO-2: Graduates will have the ability to develop advanced mechanical systems and processes using tools of Mechanical Engineering for practical applications.

LIST OF ORGANIZED ENGINEERING EVENTS

S.No	Topic	Type	Association	Date	Resource Person
1	Robotics Workshop	Workshop	Technical Committee	Oct 8, 2025	—
2	Profile Building for High Value Placement & Higher Education by AOO SEEKHE	Workshop	AI Foundation	Sep 29, 2025	Krati Yadav (Co-founder & Director, AOO SEEKHE)
3	BBDNIIT Smart India Hackathon 2025	Workshop	—	Sep 11, 2025	—
4	Entrepreneurship Vision 2.0 – Futurepreneurs: Innovating in Digital Age	Conference	AI Foundation	May 2, 2025	Dr. Arun Mohan Sherry (Director, IIIT Lucknow)
5	Yoga Day	Workshop	—	Jun 21, 2025	—
6	Industrial Visit	Bootcamp / Workshop	—	Nov14, 2025	—



ROBOTICS WORKSHOP

organized by
Department of Mechanical Engineering
 in association with
Technical Committee
Babu Banarasi Das Northern India Institute of Technology, Lucknow

Date: 8th & 9th October, 2025
 Time: 10 : 00 AM
 Venue: Room No. 708, BBDNIIT

**Hands-On Robots:
 Build, Code, Bring Tech
 to Life!**

What you'll achieve:

- Robotics Skills
- Hands-on Learning
- Teamwork & Innovation

Robotics Workshop



BABU BANARASI DAS
 NORTHERN INDIA INSTITUTE OF TECHNOLOGY
 (Formerly Known as Northern India Engineering College)
 (Recognized by AICTE, Govt. of India, affiliated to Dr. A.P.J. Abdul
 Kalam Technical University, Lucknow) AKTU College Code - 056

Department of Computer Science Engineering
 is organizing

**Profile Building For High Value
 Placement and higher Education**

Krati Yadav
 CO-Founder And Director -AOO SEEKHE
 INTERNATIONAL AUTHOR
 Recruited for Fortune 500 Clients

29 September 2025
 11:00 am - 1:00pm
 Seminar Hall ,Room No. 708, BBDNIIT

Profile Building for High Value Placement & Higher Education by AOO SEEKHE



Ministry of Education
Government of India

MoE's INNOVATION CELL
(GOVERNMENT OF INDIA)

SMART INDIA HACKATHON 2025

Babu Banarasi Das Northern India Institute of Technology, Lucknow

Conducting Internal Hackathon for SIH 2025

11th September, Thursday at 11:00 AM

SMART INDIA HACKATHON 2025

BBDNIIT

SIH 2025 INTERNAL ROUND

VENUE: ROOM NO. 608, BBDNIIT

f /056bbdniit/ | t @bbdniit056 | i @bbdniit056 | y @BBDNIITLUCKNOW

BBDNIIT Smart India Hackathon 2025



BBDNIIT

Babu Banarasi Das Northern India Institute of Technology, Lucknow (AKTU College Code : 056)

Entrepreneurship Development Cell
In association with Institution's Innovation Council (IIC)

is organizing a Conference on

ENTREPRENEURSHIP VISION 2.0
FUTUREPRENEURS : INNOVATING IN DIGITAL AGE

To create the spark among the students for new startup

02 May 2025

10:00 AM – 01:00 PM

Dr. Akhilesh Das Gupta Auditorium, BBDEG

Experts

Dr. Arun Mohan Sherry
Chief Guest
Sherry, Indian Institute of Information Technology, Lucknow

Dr. Arunabha Mukhopadhyay
Guest of Honor
Professor, Indian Institute of Management, Lucknow

Dr. Syed Shujaat Haider Jafri
Guest
CEO, Staff Approach Pvt. Ltd., Lucknow

Google Developer Group

Entrepreneurship Vision 2.0 – Futurepreneurs: Innovating in Digital Age



International Yoga Day



Industrial Visit

FACES BEHIND THE

NEWS LETTER



TUSHAR SRIVASTAVA

ME - 2022-26 Batch



JUNAID AHMAD KHAN

ME - 2024-28 Batch



Babu Banarasi Das Northern
India Institute Of Technology