



Babu Banarasi Das
Northern India Institute of Technology

Department of
Computer Science & Engineering

BITS & BYTES

**NEWS
LETTER**
2023 - 2024



THE ENGINEERING CON

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ABOUT CHAIRPERSON

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.) Anurag Shrivastava
Head of Department – CSE



It gives me immense pleasure to lead the Department of Computer Science & Engineering. The primary focus of the Department is to empower our students with overall development. We, the Team – Computer Science & Engineering are working with the following objectives:

- To nurture the students with multi-dimensional skill sets. To focus on Outcome Based Education by innovative pedagogy, Industry Academic interaction and doing live projects etc.
- Each student is focused through a Mentor – Mentee Scheme where students are emphasized for good academics, placements and participation in co-curricular activities.
- The faculty members are encouraged to publish research papers in reputed journals, participate in Faculty Development Program and Workshop through a well – supported system.

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 provide a conducive environment for learning and create research opportunities in the field of Computer Science and Engineering to meet global requirements using the latest technologies with ethical values.

DEPARTMENT MISSION

- To provide theoretical and practical concepts across the Computer Science discipline.
- To impart an education that is well suited to meet the challenging software needs of the industry.
- To nurture the undergraduate students with multidisciplinary and research activities to grow as professionals.
- To empower students with moral and ethical values.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- PEO1: To encourage students to strengthen their technical capabilities for providing software solutions.
- PEO2: To groom graduates as professional engineers to work with leadership and problem solving skills.
- PEO3: To motivate students to work in multi disciplinary environment to fulfill industrial and societal needs.

PROGRAMME OUTCOMES (POs)

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 literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural science 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 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.

PROGRAMME OUTCOMES (POs)

continued...

PO7: ENVIRONMENT AND SUSTAINABILITY:

- Understand the impact of the professional engineering solutions in societal and environmental context 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 the 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.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

On completion of the B.Tech. Computer Science & Engineering degree the graduates will be able to:

- PSO1: Ability to design and develop solutions for societal problems by using emerging technologies and standardized emerging principles.
- PSO2: Develop an understanding for conceptual and practical aspects of programming languages with databases and develop solutions using suitable data structures and algorithmic techniques.

LIST OF ORGANIZED ENGINEERING EVENTS

S.No	Topic	Type	Association	Date	Resource Person
1	Expert Talk on Career Advancements by Red Hat Academy	Webinar	AI Foundation	Nov 2, 2023	Shirish V. Pandey (APAC Lead, Red Hat Academy)
2	BBDNIIT Smart India Hackathon 2023	Workshop	—	25 Sept 2023	—
3	Mobile & Cross-Platform App Development using Android & Flutter	Workshop	IEEE	21 Sept 2023	Dr. Swasti Agrawal
4	INSPIRUS 2.0 - The Literary Fest	Literary	Dyutiman	Nov 2023	—



BABU BANARASI DAS
NORTHERN INDIA INSTITUTE OF TECHNOLOGY

RED HAT ACADEMY **RED HAT Academy**

Department of Computer Science Engineering
is organizing

Expert Talk on **Career Advancements**
through Red Hat Training and Certifications


Mr. Shirish V Pandey
APAC Lead
Red Hat Academy

 **2nd November, 2023**
 **10:00 am - 12:00 noon**
 **Room No. 708, BBDNIIT, Lucknow**

#ShapingGenerations

Expert Talk on Career Advancements by Red Hat Academy



G20 **Ministry of Education** **MoE's INNOVATION CELL (GOVERNMENT OF INDIA)** **SMART INDIA HACKATHON 2023** **75**

Babu Banarasi Das Northern India
Institute of Technology, Lucknow
Conducting Internal
Hackathon for SIH 2023
25th Sept, Monday at 11:00 am

SMART INDIA HACKATHON 2023 **BBDNIIT**

INTERNAL HACKATHON
SIH 2023

 /056bbdniit/ |  @bbdniit056 |  @bbdniit056

BBBDNIIT Smart India Hackathon 2023



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 and Engineering



Dr. Swasti Agrawal
Director
Precursor Info
Solutions Pvt. Ltd

IEI Chapter of CSE, BBDNIIT, LKO
Cordially invite you to attend
offline student workshop on:
“Mobile and Cross-Platform App
Development using Android &
Flutter”

Date: 21/09/2023

Time: 11:00 AM

Venue: 708, 6th Floor,
BBDNIIT Engineering Block

Mobile & Cross-Platform App
Development using Android & Flutter



**MIND-IN-MOTION
IDEATHON**
“IGNITE THE INNOVATION
REVOLUTION”

DATE-5TH OCT 2023

Room No. 708,
Engineering Block,
BBDNIIT

MIND-IN-MOTION IDEATHON

FACULTY BEHIND THE

NEWS LETTER

EDITORIAL BOARD



MR. UTTAM KUMAR SINGH
ASSISTANT PROFESSOR(CSE)

FACES BEHIND THE

NEWS LETTER

EDITORIAL BOARD



SHIVANG AGRAWAL
CSE - (2022-2026)



MOHD AYAN
CSE - (2023-2027)



Babu Banarasi Das
Northern India Institute of Technology