



**Babu Banarasi Das**  
Northern India Institute of Technology

Department of  
**Computer Science & Engineering**

# **BITS & BYTES**

**NEWS  
LETTER**  
2024 - 2025



# 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 ENGINEERING EVENTS ORGANIZED

| S.No | Topic                                           | Type       | Association   | Date          | Resource Person                                             |
|------|-------------------------------------------------|------------|---------------|---------------|-------------------------------------------------------------|
| 1    | Tensor Flow                                     | Workshop   | GDGC          | Dec 18, 2024  | —                                                           |
| 2    | BBDNIIT Smart India Hackathon 2024              | Workshop   | —             | Sep 18, 2024  | —                                                           |
| 3    | Finance Activities on Stock Market Trading      | Workshop   | AI Foundation | May 30, 2024  | Dr. Prakash Yadava (BBDNIIT)                                |
| 4    | Entrepreneurship Vision 1.0: An Idea to Unicorn | Conference | SCRS          | May 22, 2024  | Dr. Arun Mohan Sherry                                       |
| 5    | FOSS Meetup                                     | Webinar    | —             | May 11, 2024  | Vishal Arya (Program Director)                              |
| 6    | Web Series on Salesforce Development            | Webinar    | AI Foundation | May 6-7, 2024 | Ritesh Agrawal (Salesforce Architect, Zordial Technologies) |
| 7    | Toastmasters International                      | Webinar    | Dyutiman      | Apr 29, 2024  | Asankhya Mohan                                              |
| 8    | Computer Hardware Workshop                      | Workshop   | SCRS          | Feb 8, 2024   | —                                                           |
| 9    | Data Analytics Using Python                     | Workshop   | AI Foundation | Jan 16, 2024  | —                                                           |
| 10   | Workshop by Softpro India on Python Programming | Workshop   | SCRS          | Jan 10, 2024  | Rohit Kumar (Senior Consultant)                             |



## Tensor Flow



## BBDNIIT Smart India Hackathon 2024







**Babu Banarasi Das Northern India Institute of Technology**  
Department of Management Studies  
is organizing

## FINANCE ACTIVITIES ON STOCK MARKET TRADING

 **30 May 2024**

 **11:00-12:30 PM**

 **Seminar Hall,  
Room No 708**




 **Dr. Prakash Yadava**  
Associate Professor  
BBDNIIT

Finance Activities on Stock Market Trading



**BBD NORTHERN INDIA INSTITUTE OF TECHNOLOGY**  
ENTREPRENEURSHIP DEVELOPMENT CELL ORGANIZING  
ONE DAY CONFERENCE ON  
“**ENTREPRENEURSHIP VISION 1.0 : AN IDEA TO UNICORN**”  
CHIEF GUEST & GUEST OF HONOURS, EMINENT SPEAKERS





**CHIEF GUEST**  
**DR. ARUN MOHAN SHERRY**  
DIRECTOR - IIT LUCKNOW



**MR. MAHEEP SINGH**  
HEAD-INNOVATION  
HUB, AKTU



**DR. ANUJ KR SHARMA**  
DEAN ACADEMICS - CAS  
AKTU



**DR. PUSHKAR TRIPATHI**  
DIRECTOR - INF - IET  
LUCKNOW



**DR. SHUJAAT H. JAFRI**  
FOUNDER & CEO, STUFIT  
APPROACH PVT. LTD



**MS. VANDANA SHARMA**  
MANAGER-INNOVATION  
HUB, AKTU

**DATE & TIME: WEDNESDAY, MAY 22, 2024 AT 10:00AM**  
**VENUE: DR. AKHILESH DAS GUPTA AUDITORIUM, BBD CAMPUS, LUCKNOW**

Entrepreneurship Vision 1.0: An Idea to Unicorn



Computer Society of India (CSI) logo and FOSS UNITED LUCKNOW logo are displayed at the top left. The main text reads: "ANNOUNCING FOSSMEETUP JOIN US FOR LUCKNOW'S FIRST MEETUP". The date and time are "11th May 2024 | 11AM | BBD NIIT Seminar Hall". The event is organized by Babu Banarasi Das Northern India Institute of Technology (BBDNIIT) in association with the Institution's Innovation Council (IIC) and ANITA. The event details are: "11th May, 2024", "11:00 AM-3:00 PM", and "BBDNIIT, Seminar Hall". The agenda includes: "Introduction to FOSS", "Networking / Unconference", and "Talk on Open Source". A photo of Vishal Arya, Program Director of FOSS United, is shown on the right.

**FOSS Meetup Lucknow**

11th May, 2024  
11:00 AM-3:00 PM  
BBDNIIT, Seminar Hall

**Meet-Up Agenda :**

- Introduction to FOSS
- Networking / Unconference
- Talk on Open Source

**Vishal Arya**  
Program Director  
FOSS United

FOSS Meetup



BBDNIIT logo and Computer Society of India (CSI) logo are displayed at the top left. The main text reads: "BBDNIIT Training and Placement Cell is organizing a two-day online web series 2024 on the theme SALESFORCE DEVELOPMENT". The date and time are "6-7 May, 2024" and "2 PM - 4 PM". The experts listed are: Mr. Vishwajeet Singh (Senior Software Engineer, Simplr), Mr. Lokendra Singh (Principal Technical Architect, Huron Consulting Group), Mr. Saurabh Bhardaj (CEO, Learn & Built Pvt. Ltd.), and Mr. Ritesh Agrawal (Salesforce Architect, Zordial Technologies Pvt. Ltd.). The last date of registration is "4th May, 2024" and the registration link is "https://forms.gle/H7qeHGtTeEr3U6PJA".

**BBDNIIT**

**BBDNIIT**

**BBDNIIT Training and Placement Cell**  
is organizing a two-day online web series 2024 on the theme  
**SALESFORCE DEVELOPMENT**

6-7 May, 2024 | 2 PM - 4 PM

**Experts:**

- Mr. Vishwajeet Singh, Senior Software Engineer, Simplr
- Mr. Lokendra Singh, Principal Technical Architect, Huron Consulting Group
- Mr. Saurabh Bhardaj, CEO, Learn & Built Pvt. Ltd.
- Mr. Ritesh Agrawal, Salesforce Architect, Zordial Technologies Pvt. Ltd.

Last Date of Registration: 4th May, 2024  
<https://forms.gle/H7qeHGtTeEr3U6PJA>

Web Series on Salesforce Development

**BBDNIIT** **COMPUTER SOCIETY OF INDIA** **AICTE** **INSTITUTION'S INNOVATION COUNCIL** **TOASTMASTERS**

**Babu Banarasi Das Northern India Institute of Technology**  
**Introduction to**  
**TOASTMASTERS INTERNATIONAL**  
**At BBDNIIT**

**29th April 2024** **3 PM to 5 PM** **Dr. Akhilesh Das Gupta Auditorium**

**Mr. Asankhya Mohan**  
 Senior Associate at Emeritus  
 Associate Club Growth  
 Director-District 124 at Toastmasters International

**Mr. Shobhit Singhal**  
 Market Research Professional  
 Founder & Principal Consultant at QMR Solutions  
 Division F Director at District 124 in  
 Toastmasters International

**Organised by Dyutiman - The Literary Society of BBDNIIT**

Toastmasters International

**BBDNIIT** **AICTE** **INSTITUTION'S INNOVATION COUNCIL** **SOFT COMPUTING RESEARCH SOCIETY**

**Computer Hardware Workshop**  
 Under Value Added Activity on Feb 08, 2024

**By**  
**Department of Information Technology**  
**Babu Banarasi Das**  
**Northern India Institute of Technology, Lucknow**

[www.bbdniit.ac.in](http://www.bbdniit.ac.in)

Computer Hardware Workshop

AI FOUNDATION TRUST  
TOWARDS EXCELLENCE AND INNOVATION

BBDNIIT

AJCTE

digipodium

**BBDNIIT DIGIPODIUM CENTER OF EXCELLENCE ORGANIZED**

**WORKSHOP ON**

**DATA ANALYTICS USING PYTHON**

**IN ASSOCIATION WITH**

**IEI STUDENT'S CHAPTER OF INFORMATION TECHNOLOGY**

Date:-16 Jan 2024  
Venue:- Seminar Hall,  
Room No 708

## Data Analytics Using Python

BABU BANARASI DAS NORTHERN INDIA INSTITUTE OF TECHNOLOGY

in association with

**SOFTPRO INDIA**  
COMPUTER TECHNOLOGIES (P) LTD.

is Organizing

**01 DAY WORKSHOP ON**

**PYTHON PROGRAMMING**  
under Softpro India's Centre of Excellence

AUDIENCE  
B.Tech. - IT & CS (2nd Year)

TIME  
10:00AM - 05:00PM

WEDNESDAY  
10 JANUARY, 2024

More Info  
[www.trainingatsoftpro.com](http://www.trainingatsoftpro.com)

E-CERTIFICATE TO ALL PARTICIPANTS

**ER. ROHIT KUMAR**  
SENIOR CONSULTANT

## Computer Hardware Workshop

# **FACULTY BEHIND THE**

## **NEWS LETTER**

# **EDITORIAL BOARD**



**MR. SHASHANK KUMAR CHAUDHARY**  
**ASSISTANT PROFESSOR(CSE)**

# FACES BEHIND THE

## NEWS LETTER

# EDITORIAL BOARD



**SHIVANG AGRAWAL**  
CSE - (2022-2066)



**MOHD AYAN**  
CSE - (2023-2027)



**Babu Banarasi Das**  
Northern India Institute of Technology