BABU BANARASI DAS
INSTITUTE OF TECHNOLOGY
AND MANAGEMENT, LUCKNOW

PERIOD 2023 – 2024

VIKAS CHAKRA 5.0





Prepared By –

DEPARTMENT OF CIVIL ENGINEERING
BBDITM, LUCKNOW

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VIKAS CHAKRA 5.0



2023-24

BBDITM

Babu Banarasi Das Institute of Technology & Management (BBDITM) Affiliated with Dr. A.P.J. Abdul Kalam Technical University

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HON'BLE BABU BANARSI DAS

(1912–1985)

Former Chief Minister of Uttar Pradesh, he was an Indian freedom fighter, educationist, and statesman who made significant contributions to the national movement and the development of democratic institutions after independence. Born in Uttar Pradesh, he was deeply influenced by the ideals of nationalism, social reform, education, and democratic governance.



HON'BLE DR. AKHILESH DAS GUPTA

MBA, LL.B, PH.D. FORMER
MEMBER OF PARLIAMENT (RAJYA SABHA)
HON'BLE FOUNDER CHAIRMAN,
BBD EDUCATIONAL SOCIETY

We not only make technocrats at BBD, we churn out citizens of the world, perfect in all respects in all respects, be it leadership, compe-tence, confidence, communication, moral or knowledge.



HON'BLE
MRS. ALKA DAS



MBA, LL.B. CHAIRPERSON,
BBD EDUCATIONAL GROUP

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.



HON'BLE
MR. VIRAJ SAGAR DAS

PRESIDENT – BBD EDUCATIONAL GROUP
PRO CHANCELLOR – BBD UNIVERSITY
VICE- PRESIDENT, BADMINTON ASSOCIATION OF INDIA PRESIDENT, UTTAR PRADESH OLYMPIC ASSOCIATION

HON'BLE
MS. SONAKSHI
DAS

VICE PRESIDENT,
BBD EDUCATIONAL SOCIETY





HON'BLE
MRS. DEVANSHI
DAS

VICE PRESIDENT,
BBD EDUCATIONAL SOCIETY ,
DIRECTOR, ADGS

MESSAGE FROM DIRECTOR



PROF. SHAILENDRA SINGHCHAUHAN
DIRECTOR,
BBDITM, LUCKNOW

Dear Readers,
It is indeed commendable that the issue of Civil Engineering Department Magazine is now before you. It not only showcases numerous events of Department previous semester activities despite different constrains but also Department achievements Editorial team of this magazine deserves kudos for the same. I convey my greetings and sense of pride to all associated with Institutional Innovation Council also, through President and Convenor IIC BBDITM to CE Department faculty coordinators and students IIC team members for their tireless efforts and conviction and commitment helping Institute to rank high in Eastern UP region and fulfil noble and much required objectives of IIC for an Prestigious and progress. Institute has also been doing exceptionally well in humanitarian activities at University/ State level, as a result of which It has been declared as Nodal Center by University for such activities. In this context I appreciate CE Department and its commitment and initiatives in this noble context.

I thank for the effort of Departmental Magazines review Committee, Head of Department, Program Coordinator, Magazine Coordinator and all faculty for this third issue of Magazine to highlight their achievements and major activities in this period. I am sure Editor and associated Students Editorial team will also come out with fourth issue in following months.
Jai Hind

MESSAGE FROM H.O.D



PROF. D.S.RAY
HEAD DEPARTMENT OF CIVIL ENGINEERING BBDITM, LUCKNOW

My vision is to establish a system for future civil engineering professionals through academic excellence, competencies, overall upliftment in all horizons and inoculate morals and values among them. Our department is committed to provide students with a strong, broad based fundamental engineering education and prepare the students for a career in the industry, teaching and national laboratories.

The Department of Civil Engineering at the BBD Institute of Technology and management, Lucknow is the best in the region for education in Civil Engineering. It has a well-qualified and dynamic faculty and technical staff with diverse area of specialization of Transportation, geotechnical, environmental, construction & planning and structural engineering. The Department is committed to produce eminent engineers who will make significant contribution in planning and execution of projects.

The Department offers a four-year course leading to the Bachelor's Degree in Civil Engineering. The Department is well equipped with Civil engineering 12 labs facilities required to serve under-graduate and postgraduate courses.

is also enriched with the analytical tools like Staad Pro, Water Gems, Primavera, Sewer Gems and MX Road 3D to provide exposure to its stakeholders about the structural design, sewer design and highway design problems.

MESSAGE FROM DESK OF EDITOR

MR. ASHWANI KUMAR PANDEY
ASSISTANT PROFESSOR
DEPARTMENT OF CIVIL ENGINEERING BBDITM, LUCKNOW



Dear Reader,

It gives us great pleasure to bring you the Second edition of "VIKAS CHAKRA 5.0" , the departmental magazine of Civil Engineering, BBDITM, Lucknow. The name and fame of an institute depends on the caliber and achievements of the students and teachers. The role of a teacher is to be a facilitator in nurturing the skills and talents of students. This magazine is a platform to exhibit the literary skills and innovative ideas of teachers and students.

VIKAS CHAKRA 5.0 presents the achievements of students and contributions of teachers. We would like to place on record our gratitude and heartfelt thanks to all those who have contributed to make this effort a success. We profusely thank the management for giving support and encouragement and a free hand in this endeavor. Last but not the least we are thankful to all the authors who have sent their articles. We truly hope that the pages that follow will make an interesting read.

It has been a wonderful experience to work with the editorial team and to see the creations taking shape. The enthusiasm, especially among students has been fantastic. I thank you all for your contribution. Let this be the beginning and I hope it become a early event.

EDITORIAL BOARD

EDITORIAL COMMITTEE :



Mr. Ashwani Kumar Pandey



Mr. Abhay Yadav



Mrs. Shruti Singh Bisen

DESIGN AND DRAFTING:



Ritesh Chandra Chaudhry
4th Year, CE
2000540000040



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4th Year, CE
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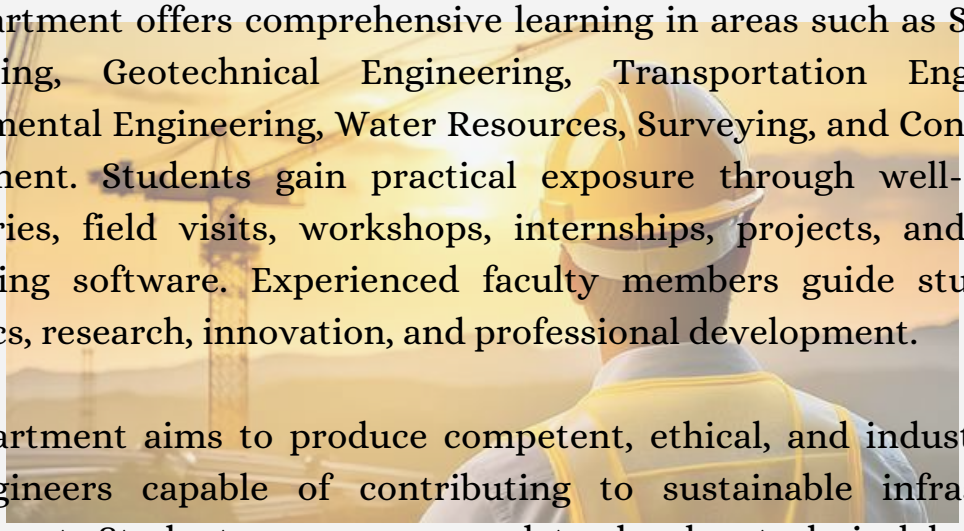
Ravi Shankar
1st Year, CE
2400540009010



Yuvraj Singh
1st Year, CE
2300540000055

DEPARTMENT OF CIVIL ENGINEERING

The Department of Civil Engineering at Babu Banarasi Das National Institute of Technology and Management (BBDNITM), Lucknow was established with the vision of providing quality technical education and developing skilled professionals in the field of civil engineering. The department focuses on building a strong academic foundation while preparing students to meet the changing needs of the construction and infrastructure sector.



The department offers comprehensive learning in areas such as Structural Engineering, Geotechnical Engineering, Transportation Engineering, Environmental Engineering, Water Resources, Surveying, and Construction Management. Students gain practical exposure through well-equipped laboratories, field visits, workshops, internships, projects, and modern engineering software. Experienced faculty members guide students in academics, research, innovation, and professional development.

The department aims to produce competent, ethical, and industry-ready civil engineers capable of contributing to sustainable infrastructure development. Students are encouraged to develop technical knowledge, problem-solving abilities, teamwork, communication skills, and leadership qualities. Graduates can pursue opportunities in construction companies, government departments, infrastructure organizations, consultancy firms, PSUs, research, higher education, and entrepreneurship, contributing to the development of society and the nation.

VISION OF INSTITUTE

- To become a leading institute of providing professionally competent and socially responsive technocrats with high moral values.

- To produce globally competent and socially responsible technocrats and entrepreneurs who can develop innovative solutions to meet the challenges of 21st century.

MISSION OF INSTITUTE

- To create an eco-system for dissemination of technical knowledge, to achieve academic excellence.

- To develop technocrats with creative skills and leadership qualities, to solve local and global challenges.

- To impart human values and ethics in students, to make them socially and Eco-friendly responsible.



VISION OF DEPARTMENT

- To impart academic excellence in Civil Engineering field with emphasis on holistic development of the professional, while inculcating ethics, socially and professionally responsive technocrats.

MISSION OF DEPARTMENT

- To provide a comprehensive platform for the academic expertise and proficiency.
- To develop Civil Engineering professionals with creative skills and leadership qualities in order to face regional and global challenges.
- To develop ethics in students in order to promote socially responsible environmental awareness with innovative thinking.



PROGRAM EDUCATIONAL OBJECTIVES (PEOS):

The following are PEOs of the department

- PEO 1: To enhance skill and expertise in field of Civil Engineering with aim of boosting employability and entrepreneurship.
- PEO 2: To develop multidisciplinary approach of Civil Engineering system with lifelong learning solutions.
- PEO 3: To develop the potential to pursue higher education and research in field of Civil Engineering.

PROGRAM SPECIFIC OUTCOMES (PSOS):

- PSO 1: Graduates shall be able to apply critical thinking in research, design, analysis and implementation of Civil Engineering problems.
- PSO 2: Graduates shall be able to inculcate the idea of sustainability in engineering solution to meet real world challenges.

DEPARTMENT ACHIEVEMENTS



"Every achievement begins with the courage to learn and the determination to excel."

FACULTY ACHIEVEMENT



DR. SUPRIYA PHURAILATPAM
ASSISTANT PROFESSOR
DEPARTMENT OF CIVIL ENGINEERING
BBDITM, LUCKNOW

A. Research Papers in Journals

- Published/co-authored 5 research papers in journals covering sustainable construction materials, municipal incinerated ash, air-quality dispersion modelling using AERMOD, structural design, and river-atlas preparation.
- Key recent publication: Synthesis of Eco-friendly Alkali-Activated Bricks Using Municipal Incinerated Ash (2026).

B. Events Organized as Organizing Secretary and Coordinator

- Served as Coordinator/Organising Committee Member for academic, technical, FDP, and community outreach programmes.
- Coordinated the expert session “Start-up Landscape in India: Policy Support, Market Expansion and Long-Term Sustainability” (2025).

C. Events Attended

- Participated in 19 Faculty Development Programmes, seminars, workshops, professional development and training programmes/webinars.
- Participated in the Water Harvesting, Storage and Conservation Workshop at IIT Kanpur.

D. Extra Activities

- Convenor, Grievance Redressal Committee (GRC), BBDITM.
- Coordinator, IIRS Outreach Programmes, BBDITM.

E. Books Authored

- Phurailatpam, S. (2018). Essentials of Chemistry. AAA Publications, New Delhi.

PROF. D.S.RAY
B.E, M.TECH(I I T/K),MBA,FIE(I), FIV(I),LMIRC,MIWWA, CE(RTD) UP PWD,



1. **Research & Publications**

- Published/co-authored 23 research papers, including 7 Scopus-indexed papers, in pavement engineering, soil stabilization, bituminous materials, transportation and sustainable construction.
- Research focuses on sustainable pavement materials, geotechnical engineering and infrastructure development.
- B. Events Organized
- Organized/coordinated Guest Lectures and Special Lectures on Green Building and Rigid Pavement Design.
- Coordinated various technical and academic activities in Civil Engineering.

2. **Events & Professional Development**

- Participated in numerous workshops, seminars, FDPs and technical programmes related to Green Building, Pavement Design, Advanced Materials, Renewable Energy and Engineering Technology.
- Participated in industrial visits and educational tours and contributed to Road Safety awareness programmes.

3. **Professional Achievements**

- Holds approximately 30 years of Civil Engineering experience, including UP PWD and UP Housing & Development Board.
- Guided M.Tech research scholars and holds memberships in major professional bodies including IE(I), IRC and IWWA.
- Honoured with Rashtriya Gaurav Award, Best Citizen of India, Vikas Ratna and Bharat Jyoti Award.



MR. MOHD AQUIB
ASSISTANT PROFESSOR
DEPARTMENT OF CIVIL ENGINEERING
BBDITM, LUCKNOW

1. Events Attended

- Participated in a 5-Day Online Faculty Development Programme on "Agentic AI and PEGA: Practical Foundations", organized by Babu Banarasi Das University, Lucknow, from 16 to 20 June 2025.
- Participated in a 5-Day Faculty Development Programme on "Energy-Efficient Infrastructure and IoT-Integrated Sustainable Systems", organized by Jahangirabad Educational Trust Group of Institutions, Lucknow, from 28 May to 1 June 2025.
- Participated in an FDP on "Innovation and Entrepreneurship" at Innovation Hub, Dr. A.P.J. Abdul Kalam Technical University, Lucknow, organized by AICTE and Ministry of Education's Innovation Cell (MIC), from 25 to 29 March 2025.
- Participated in a 1-Week Faculty Development Programme on "Recent Trends in Civil and Mechanical Engineering", organized by the Department of Civil and Mechanical Engineering, from 9 to 14 September 2024.
- Participated in an FDP on Building Information Modelling (BIM), jointly organized by Autodesk, NICMAR Delhi-NCR Campus, and TATA Projects, supported by SW Systems, from 24 to 29 March 2025.
- Participated in an International Faculty Development Programme on "Computational Techniques and Simulation for Engineering Applications", organized by Amity School of Engineering & Technology, Amity University, Lucknow, from 2 to 6 June 2025.

2. Extra Activities

- Lab Coordinator, Quantity Estimation and Management Lab
- Mentor of Section CE-21
- Coordinator of Sports in Utkarsh



MR. MOHIT CHOUBEY
ASSISTANT PROFESSOR
DEPARTMENT OF CIVIL ENGINEERING
BBDITM, LUCKNOW

- **Events Organized as Organizing**
- **Secretary and Coordinator**
- Contributed as *Co-Cordinator 1 week FDP on "Recent Trends in Civil and Mechanical Engineering*", organized by civil and Mechanical engineering department, BBDITM, during 9th -14 September, 2024.
- **Events Attended**
- Participated in Short Term Course on "Emerging Trends in Environmental Engineering for Sustainable Development (ESTED-2025)", HBTU, Kanpur (20–24 Jan 2025).
- Participated in FDP on "Agentic AI and PEGA: Practical Foundations", BBD University, IEEE CIS & RVS Computing Research Circle (16–20 Jun 2025).
- Participated in FDP on "Building Information Modelling (BIM)", Autodesk, NICMAR Delhi-NCR & Tata Projects (24–29 Mar 2025).
- Participated in FDP on "Computational Techniques and Simulation for Engineering Applications (CTSEA-2025)", Amity University, Lucknow (02–06 Jun 2025).
- Participated in FDP on "Innovation and Entrepreneurship", AKTU Innovation Hub, in association with AICTE & MIC (25–29 Mar 2025).
- Participated in FDP on "Recent Trends in Civil and Mechanical Engineering", BBDITM (09–14 Sep 2024).
- **Extra Activities (Responsibility, Any Achievements and membership)**
- Coordinator In charge, 2nd Year
- Departmental Web cell Coordinator
- Lab Coordinator, CAD lab
- Lab Coordinator, Hydraulics & Hydraulic Machine lab
- Mentor of Section CE-23



MRS SHRUTI SINGH BISEN
ASSISTANT PROFESSOR
DEPARTMENT OF CIVIL ENGINEERING
BBDITM, LUCKNOW

1. **Events Organized as Organizing Secretary and Coordinator**

- Contributed as Co-Cordinator 1 week FDP on "Recent Trends in Civil and Mechanical Engineering", organized by civil and Mechanical engineering department, BBDITM, during 9th -14 September, 2024.

2. **Events Attended**

- i. Participated in Short Term Course on "Emerging Trends in Environmental Engineering for Sustainable Development (ESTED-2025)", HBTU, Kanpur (20–24 Jan 2025).
- Participated in 5-Day FDP on "Agentic AI and PEGA: Practical Foundations", BBD University, IEEE CIS & RVS Computing Research Circle (16–20 Jun 2025).
- Participated in 5-Day FDP on "Building Information Modelling (BIM)", Autodesk, NICMAR Delhi-NCR & Tata Projects (24–29 Mar 2025).
- Participated in 5-Day FDP on "Computational Techniques and Simulation for Engineering Applications (CTSEA-2025)", Amity University, Lucknow (02–06 Jun 2025).
- Participated in 5-Day FDP on "Innovation and Entrepreneurship", AKTU Innovation Hub, in association with AICTE & MIC (25–29 Mar 2025).
- Participated in 1-Week FDP on "Recent Trends in Civil and Mechanical Engineering", BBDITM (09–14 Sep 2024).

3. **Extra Activities (Responsibility, Any Achievements and membership)**

- Coordinator In charge, 2nd Year
- Departmental Web cell Coordinator
- Lab Coordinator, CAD lab
- Lab Coordinator, Hydraulics & Hydraulic Machine lab
- Mentor of Section CE-23



MR. AVINASH KUMAR UPADHYAY
ASSISTANT PROFESSOR
DEPARTMENT OF CIVIL ENGINEERING
BBDITM, LUCKNOW

1. **Events Organized as Organizing Secretary and Coordinator**

- Contributed as Co-Cordinator 1 week FDP on "Recent Trends in Civil and Mechanical Engineering", organized by civil and Mechanical engineering department, BBDITM, during 9th -14 September, 2024.

2. **Events Attended**

- Participated in One-Week Short Term Course on "Emerging Trends in Environmental Engineering for Sustainable Development (ESTED-2025)", HBTU, Kanpur (20–24 Jan 2025).
- Participated in 5-Day Faculty Development Programme on "Agentic AI and PEGA: Practical Foundations", BBD University, IEEE CIS & RVS Computing Research Circle (16–20 Jun 2025).
- Participated in 5-Day Faculty Development Programme on "BIM", Autodesk, NICMAR Delhi-NCR Campus & Tata Projects (24–29 Mar 2025).
- Participated in 5-Day Faculty Development Programme on "Computational Techniques and Simulation for Engineering Applications (CTSEA-2025)", Amity University, Lucknow (02–06 Jun 2025).
- Participated in 5-Day Faculty Development Programme on "Innovation and Entrepreneurship", AKTU Innovation Hub, in association with AICTE & MIC (25–29 Mar 2025).

3. **Extra Activities (Responsibility, Any Achievements and membership)**

- Coordinator In charge E-Leaning NPTEL
- Lab Coordinator, Structural Detailing
- Startup Activity Coordinator
- Mentor of Section CE3

EVENT & ACTIVITY

EDUCATIONAL TOUR

An Educational Tour was arranged by Department of Civil Engineering BBDITM, Lucknow for its Final Year students to visit of Beaskund Hydro Power Plant Palchan Himachal Pradesh, Atal Tunnel in Himachal Pradesh, Rock Garden in Chandigarh, Kasol, Manikaran, Kullu, Manali, Rohtang Pass and Water distribution system in Beas River. Forty-Four students accompanied with Three faculty members were scheduled to visit of Himachal Pradesh from 26th October to 1st November 2023. The program started with the blessings of Mrs. Alka Das Gupta, Chairperson of BBD Education Group and President Mr. Viraj Sagar Gupta. The program was inaugurated by Dr. Shailendra Singh Chauhan, Director, BBDITM and Prof. D.S.Ray, Head of Department of Civil Engineering.This Program is coordinate by faculty such as Mr. Abhay Yadav, Mr. Ashwani Kumar Pandey and Mr. Ashish Verma.

Educational tours provide the opportunity for students to learn hands-on through interactions, working methods and employment practices. Interaction with outsiders helps in improving communication skills and makes them more sociable. Academic tour helps in the development of the overall personality of the students. It introduces the students to the outside world. It makes them better with a new prospect and helps in the development of the overall personality. It exposes the students to the outside world, be it local & global

The journey was filled with a lot of enthusiasm. The aim of the Industrial Visit was to emphasize practical knowledge in the field of Core Civil Engineering. visits to various industries were helpful for students to find placement opportunities in such Industries. The students have learned to see the road construction in hilly area, water distribution in hilly area and tunnel construction work. The students, as well as the teachers, enjoyed and visited global icon of places in Chandigarh and Himachal Pradesh like Beaskund Hydro Power Plant Palchan Himachal Pradesh, Atal Tunnel in Himachal Pradesh.







EDUCATIONAL TOUR:- KASOL, HIMACHAL PRADESH







KASOL, HIMACHAL PRADESH

BABU BANARASI DAS
INSTITUTE OF TECHNOLOGY AND MANAGEMENT, LUCKNOW
(AKTU COLLEGE CODE-054)

Department of Civil Engineering

Organized

Guest Lecture on Minor Bridge Engineering

Presented by

Dr. R. K. Srivastava" , Rtd as Chief Engineer, PWD and currently working as Professor in Ramswaroop University.

on

21st November 2023 at Steppers Hall, BBDITM (E-Block), Lucknow

Time: 03:30PM - 05:00PM

Coordinators-

1) Mr. Ashwani Kumar Pandey, Assistant professor-CE

2) Mr. Mohit Choubey, Assistant professor-CE

Event Description

The Department of Civil Engineering, BBD Institute of Technology and Management, Lucknow organized a Guest Lecture on 'Minor Bridge Engineering', on the 21st November 2023 at Stepper's Hall. The Guest Speaker of the session was "Dr. R. K. Srivastava" , who is Rtd as Chief Engineer, PWD and is currently working as Professor in Ramswaroop University.

The event started with invocation and lighting of lamp; followed by a welcome address by Prof. D. S. Ray (HOD, Department of Civil Engineering, BBDITM). The guest lecture was preceded by a short motivational speech by Dr. S.S. Chauhan (Director, BBDITM).

In his presentation, Dr. R. K. Srivastava emphasized on the importance of Minor bridge engineering in India. This guest lecture offers an invaluable opportunity to aspiring engineer, a seasoned professional, or simply someone with a curiosity for infrastructure for expand his knowledge, network with industry experts and get inspired by the innovative approaches and solutions shaping the future of minor bridge engineering. The students found the lecture interesting and thought provoking.

The lecture started at 3:30 PM and ended at 5:00 PM. The event ended with honorarium to the guests and vote of thanks by Mr Ashish Verma and a closing speech by Prof. D. S. Ray.



GUEST LECTURE REPORT

TOPIC- "ROLE OF IRRIGATION IN THE DEVELOPMENT OF UTTAR PRADESH"



The Department of Civil Engineering, BBD Institute of Technology and Management, Lucknow organized a Guest Lecture on 'Role of irrigation in the development of Uttar Pradesh ' on the 15th March 2024 at Room No.507 Conference Hall. The event started with a welcome address by Prof. D. S. Ray (HOD, Department of Civil Engineering, BBDITM). The Guest Speaker of the session was "Prof. (Dr.) Rakesh Varma (Retd. Chief Engineer Level-1, IDUP), is currently working as a Professor at Sri Ramswaroop Memorial University.

Guest Lectures is essential with the aim of molding young civil engineers' minds and making them adopt the latest technological development as the requirement for NBA accreditation. Our guest lecturer delivered the lecture on irrigation development in Uttar Pradesh and the role of the irrigation department in the growth of the state. He explains about various dams and barrage of state and grows the knowledge of students.

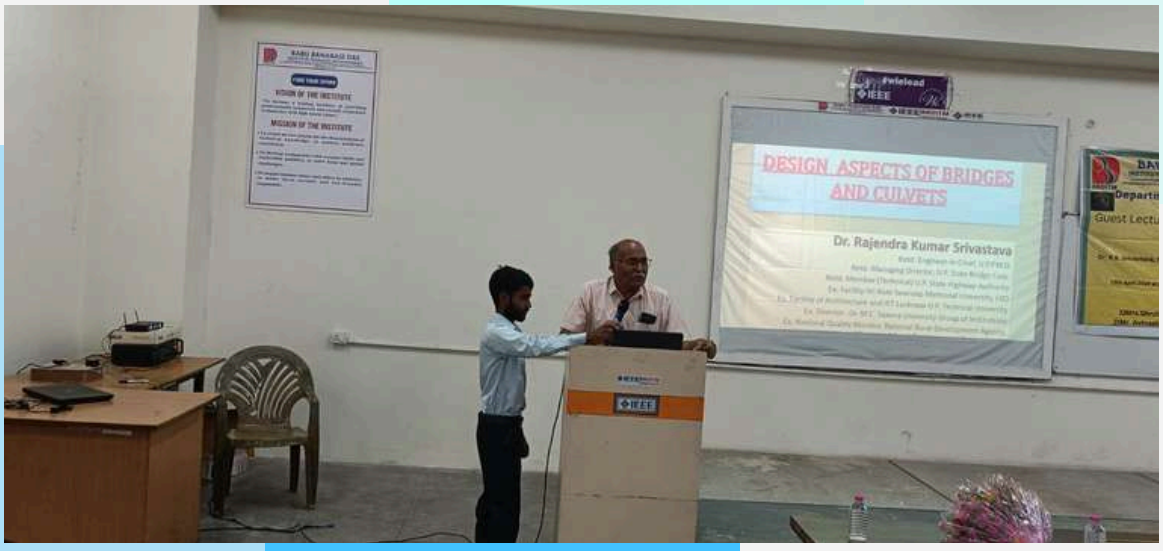






GUEST LECTURE BY PROF.(DR.) RAKESH VARMA (RETD. CHIEF ENGINEER LEVEL-1, IDUP)

"DESIGN ASPECTS OF BRIDGES AND CURVERTS"



DR. R.K. SRIVASTAVA, PROFESSOR, SRMU,E-IN-C, UPPWD(RTD),MD, UP SATE BRIDGE CORPORATION

Guest Lecture is essential with the aim to mold young civil engineers minds and make them adopt the latest technological development as the requirement for NBA accreditation .Our guest lecturer deliver the lecture on Design Aspects of Bridges and curverts. He explained about Bridges which provides an easier route of transportation that saves time and reduces distance. Culverts prevent water logging, flood, and erosion, and allows water to flow its natural course under a roadway or railway. Culvert as a tunnel structure constructed under roadways or railways to provide cross drainage or to take electrical or other cables from one side to other. It is totally enclosed by soil or ground. Pipe culvert, box culvert and arch culvert are the common types used under roadways and railways. The design of culvert is based on hydraulic, water surface elevation, and roadway height and other conditions.

GUEST LECTURE BY:- DR. R.K. SRIVASTAVA, PROFESSOR, SRMU, E-IN-C, UPPWD(RTD), MD, UP SATE BRIDGE CORPORATION







DEPARTMENT OF CIVIL ENGINEERING, BBD ITM, LUCKNOW CONDUCTED THE INDUSTRY VISIT OF FINAL YEAR STUDENTS TO ULTRATECH RMC PLANT, DEWA ROAD, LUCKNOW

The program started with the blessings of Mrs. Alka Das Gupta, Chairperson of BBD Education Group, and President Mr. Viraj Sagar Gupta. The program was inaugurated by Dr. Shailendra Singh Chauhan, Director, of BBDITM, and Prof. D.S.Ray, Head of the Department of Civil Engineering. 32 students of final year visited to Ultra Tech RMC plant. This Program was coordinated by faculty members Mr. Ashwani Kumar Pandey and Mr. Mohit Choubey.

UltraTech Cement Limited is the cement flagship company of the Aditya Birla Group. A USD 7.1 billion building solutions powerhouse, UltraTech is the largest manufacturer of grey cement, ready mix concrete (RMC), and white cement in India. It is the third largest cement producer in the world, excluding China. UltraTech is the only cement company globally (outside of China) to have 100+ MTPA of cement manufacturing capacity in a single country. The Company's business operations span UAE, Bahrain, Sri Lanka and India. UltraTech has 185+ Ready Mix Concrete (RMC) plants in 85+ cities, UltraTech is the largest manufacturer of concrete in India.

Students understood the behavior, composition, and performance of concrete and their utility along with the superiority of Ultratech Cement to conventional concrete and its multiple applications. Their experts demonstrated the raw material used in concrete and also guided them on how to manage raw materials. They also gave knowledge about raw mix design and cube tests.

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AKTU COLLEGE CODE - 054

BBDITM

ICI

Department of Civil Engineering
Industrial Visit to
Ultratech RMC Plant, Deva Road, Lucknow on 18th March, 2024











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ICI

Department of Civil Engineering
Industrial Visit to
Ultratech RMC Plant, Deva Road, Lucknow on 18th March, 2024





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Department of Civil Engineering
Industrial Visit to
Ultratech RMC Plant, Deva Road, Lucknow on 18th March, 2024











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AKTU COLLEGE CODE - 054

BBDITM

I C I

Department of Civil Engineering
Industrial Visit to
Ultratech RMC Plant, Deva Road, Lucknow on 18th March, 2024







INDUSTRIAL VISIT REPORT:-

Purpose: The purpose of the visit was to familiarize the students with the procedure of municipal waste water treatment and reuse.

The Department of Civil Engineering, Babu Banarasi Das Institute of Technology & Management, Lucknow organized a visit to Sewage Treatment Plant- Bharwara, Lucknow on April 29, 2024 for a group of students of Civil Engineering from 8 Semester, 4 Year. The students were accompanied by the faculty members.

The Bharwara Sewage Treatment treatment plant receives sewage from total Trans-Gomti side including Indira Nagar, Gomti Nagar and Sitapur road areas conveying sewage which is sanctioned under Gomti Action Plan Phase-II. It has the Capacity to treat 345 MLD waste water through Length of trunk and branch sewer lines of around 860km.

The visits include presentations and demonstration by team members of project engineers, who explain all the details and benefits of project. They were then
The visit was quite helpful for the students to get the practical knowledge regarding the functioning and process of municipal waste water treatment plant.

INDUSTRIAL VISIT TO SEWAGE TREATMENT PLANT - BHARWARA LUCKNOW







29/04/2024



INDUSTRIAL VISIT TO SEWAGE TREATMENT PLANT - BHARWARA LUCKNOW



PLACEMENT



ASHISH SHRIVASTVA

ROLL NO: 2000540000002

BUILDING CREATOR & CONSULTING



HIMANSHU SHARMA

ROLL NO: 2000540000028

ZDEX INDUSTRIES



ANMOL KUMAR SRIVASTAVA

ROLL NO: 2000540000013

NAROLAC PAINTS



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HIGHER STUDY



ANAND KUMAR
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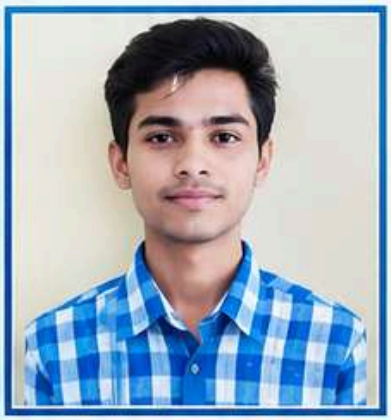
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Our Civil Engineering alumni are making us proud by serving in various Public Sector Undertakings (PSUs) and government organizations across the country. Their dedication, technical expertise, and commitment to public service reflect the strong foundation provided by our department.



"From classrooms to national infrastructure, our alumni continue to build a stronger India."



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"EVERY ACHIEVEMENT REFLECTS THE DEDICATION, INNOVATION, AND SPIRIT OF OUR DEPARTMENT."



FELICITATION CEREMONY OF 'MEDAL HOLDER' STUDENTS BY THE DEPARTMENT

BRONZE MEDAL WINNER

Ms. Suchita



Ms. Suchita (University Roll No. 2000540000053) receiving the **Bronze Medal** in B.Tech Civil Engineering in the esteemed presence of Her Excellency Smt. Anandiben Patel Ji, Hon'ble Governor of Uttar Pradesh.

GOLD MEDAL WINNER

Ms. Pratiksha Maddheshiya



Ms. Pratiksha Maddheshiya (University Roll No. 2000540009005) receiving the **Gold Medal** in B.Tech Civil Engineering in the esteemed presence of Her Excellency Smt. Anandiben Patel Ji, Hon'ble Governor of Uttar Pradesh.

GOLD MEDAL WINNER

Mr. Chandra Bhushan Verma



Mr. Chandra Bhushan Verma (Roll No. 1705400030) receiving the **Gold Medal** in B.Tech Civil Engineering in the esteemed presence of Her Excellency Smt. Anandiben Patel Ji, Hon'ble Governor of Uttar Pradesh.

TECHNICAL SECTION

Case study, final year project

Use of bamboo as a building materials in construction projects.



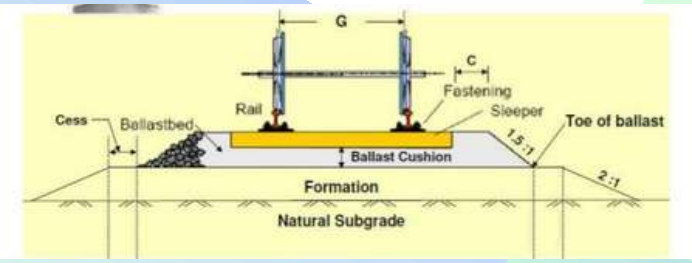
Bamboo can be an effective sustainable building material for houses, temporary structures, roofs, partitions, scaffolding and other lightweight construction. With proper selection, treatment, design and maintenance, bamboo structures can be strong, durable and environmentally friendly.

Design and Estimation of Irrigation Canal and canal outles .

Canal design determines the size, shape, slope and hydraulic capacity of the canal, while estimation determines the quantities and cost of construction. Canal outlets are designed to provide a controlled and equitable supply of irrigation water to the fields.

TECHNICAL SECTION

Case study, final year project



Design and Estimation of Cross-section of railway track

The design of a railway track cross-section involves deciding the gauge, formation width, ballast, sleepers, rail arrangement, slopes and drainage. Estimation involves calculating the quantities of earthwork, ballast, sleepers, rails, fastenings and drainage works and then determining the total construction cost using applicable railway SOR/rates.

Construction of Sidewalk Pavement Using Environmentally Friendly Binder Composition



Environmentally friendly sidewalk construction combines proper pavement design with low-carbon binder technology. Partial replacement of conventional cement with suitable supplementary materials can reduce environmental impact while maintaining the required strength, durability and serviceability

CIVIL ENGINEERING LABS









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