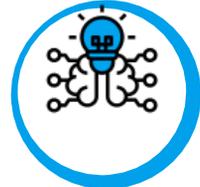




BABU BANARASI DAS
NORTHERN INDIA INSTITUTE OF TECHNOLOGY
(AKTU COLLEGE CODE: 056)
Address : Sector II, Dr. Akhilesh Das Nagar, Faizabad Road, Lucknow (U.P.) - 226028



**Babu Banarasi Das Northern India
Institute of Technology
is Organizing FDP on
AI Evolution**



AI Evolution: "From Foundations to Generative AI"



Program Benefit For participating institutions and faculty members



Access to comprehensive and in-depth knowledge on key technologies through experiential learning



Regular updates and hands-on knowledge on latest technology developments in AI and CC, challenges, opportunities, and current industry trends



Tips to effectively integrate technology into the teaching and learning process



Constant support and mentoring from Microsoft and SAP towards continuing learning journey and completion certificate from Microsoft & SAP



Sustainable ecosystem for faculty to become “Leaders of Change”



Opportunities to leverage open-source technical tools, frameworks, and other packages to integrate in classroom teaching

TechSaksham Ambassadors

- Strengthen technical skills by continuous learning through Microsoft and SAP e- learning platforms and certifications.
- Access to and support of Tech Saksham LMS will be provided to all the faculty members to conduct activities, submit feedback, and obtain details.
- Unlike traditional FDPs, TechSaksham FDPs are aimed at creating strong, continuous and sustained linkages amongst the industry and academia. Opportunity to earn certification from Microsoft, SAP upon successful completion
- Continuous engagement of faculty with experts from Industry during and after FDP to provide technical support and mentorship

Eligibility & Mode of Training

- 70% attendance is mandatory for obtaining the e-certificate for FDP
- Submission of pre-assessment and post-assessment is mandatory for obtaining the e-certificate for FDP
- Any faculty from Govt./Govt aided colleges, universities and private engineering colleges interested in the relevant theme of the training.
- Faculty from Computer Science, Computer applications, Information Technology, Electronics, and related streams would be ideal candidates for the program.
- Faculty must have access to computer/laptop with an internet connection to participate in the Full time and guest faculty from Computer Science, Information Technology, Electronics, and related streams and can participate.
- Faculty must have access to a computer/laptop with an internet connection to actively participate in the program
- Training will be delivered in online mode on MS Teams and the FDP sessions will be 5 hours in duration
- All registered participants will receive confirmation for participation.

Importance and Benefits of TechSaksham LMS

- Students register on TechSaksham LMS, Gets Access to the self-paced courses on IR4.0 Technologies.
- Students from 1st to final year coming from different specializations are eligible to enroll in TechSaksham LMS
- Post completion of TechSaksham Self-paced learning program, students will get course completion TECHSAKSHAM CERTIFICATE.
- Amongst all the students driven on LMS, Final Year Students enroll for self-paced courses also get access to TechSaksham marketplace. All the students completing the course get certificates from Microsoft and SAP.



AI Evolution: From Foundations to Generative AI (05 days- 20-25 Hours)

Days	Topic Description	Duration (Min.)
1.	Welcome Session Ice Breaking Session: Introduction to LMS and Registration Process (30)	30
1.	Introduction to Artificial Intelligence <ul style="list-style-type: none"> • Introductory hands-on on ChatGPT • AI Intro (30) <ul style="list-style-type: none"> ○ Gen – AI ○ Discriminative AI • Demos on MS Lobe tool on Image classification and Object detection (40) • Hands-on and discussion on Exploratory Data Analysis with Packages NumPy, Pandas, Matplotlib (80) <ul style="list-style-type: none"> ○ Understand the Data Structure ○ Preprocessing techniques ○ Explore Numerical Attributes ○ Explore Categorical Attributes ○ Handling outliers ○ Understanding relationships and new insights through plots 	150
2.	Deep dive into ML <ul style="list-style-type: none"> • Discussion on Machine Learning Problems (30) <ul style="list-style-type: none"> ○ Regression problems ○ Classification problems ○ Clustering problems • ML Algorithms discussion and implementation on a variety of raw datasets (110). <ul style="list-style-type: none"> ○ Linear Regression ○ Multiple Linear Regression (Take Home) ○ Logistic Regression ○ Support Vector Machines (Take Home) ○ K-means ○ DBSCAN (Take Home) • Demonstration of Regression and classification problem using ML Studio Classic (40) 	180

3.	<p>Highly progressive Deep Learning algorithms</p> <ul style="list-style-type: none"> • Implementation of Neural Network for classification problems. (30) • Convolutional Neural Networks (CNN) implementation of business / research applications to classify and recognize. (75) • Recurrent Neural Networks (RNN) implementation of business / research applications to classify and recognize. (75) <p>YOLO (You Only Look Once) algorithm for object detection in images and videos (Take Home)</p>	180
4.	<p>Hands-on and discussion of the techniques of NLP (140)</p> <ul style="list-style-type: none"> • Tokenization • Lemmatization and Stemming • Topic Modelling • Keyword Extraction • Bag of Words • Limitations of NLP • Implementation of LSTM & BiLSTM (Take home) <p>Theoretical Discussion on LLM (40)</p> <ul style="list-style-type: none"> • What is LLM • Types of LLM, available today • Usage and examples • Implementation of supplied codes (Take home) 	180
5.	<p>Generative AI (120)</p> <ul style="list-style-type: none"> • Introduction & Generative AI Application Discussion • Tools and Examples of GenAI: codeium, chatGPT and similar • Prompt Engineering (Hands-on Activity) • Bringing GenAI in our daily life (Hands-on Activity): Improving pedagogy with ChatGPT <p>Pedagogy and Design Thinking</p> <ul style="list-style-type: none"> • Innovations in Artificial Intelligence using Design Thinking with the help of real-world use cases. (100) • Microsoft Pedagogical tools for making learning more accessible. (50) • Assessment and reflections (90) 	180

Program Sponsors



About Microsoft

Microsoft (Nasdaq "MSFT" @ microsoft) enables digital transformation for the era of an intelligent cloud and an intelligent edge. Its mission is to empower every person and every organization on the planet to achieve more. Microsoft set up its India operations in 1990. Today, Microsoft entities in India have over 16,000 employees, engaged in sales and marketing, research, development and customer services and support, across 11 Indian cities – Ahmedabad, Bengaluru, Chennai, New Delhi, Gurugram, Hyderabad, Kochi, Kolkata, Mumbai, Noida and Pune. Microsoft offers its global cloud services from local data centers to accelerate digital transformation across Indian startups, businesses, and government organizations.



About SAP

SAP India is the fastest growing subsidiary of SAP SE, the world's leading provider of business software solutions. SAP India began its operations in 1996 with headquarters in Bangalore and offices in Mumbai, New Delhi, Kolkata, and a direct presence in nine cities across India, besides having marketing associates in Sri Lanka and Bangladesh. Declared as the 'Hub of the year in the Asia Pacific and Japan' in 2007, SAP India witnessed an unprecedented growth of over 100% both in terms of license revenue and customer acquisition.

Program Partner



About Edunet Foundation

Edunet Foundation (EF) promotes youth skilling, innovation, and entrepreneurship. It works with top global technology companies and Indian multinationals to further its goals. It has been working across the education spectrum – with government agencies, colleges, and schools around India – to help prepare our future workforce for future careers. Edunet Foundation enjoys "Special Consultative Status" with the Economic and Social Council at the United Nations. Edunet Foundation was recently certified as a "Great Place To Work", by the Great Place To Work Institute, the global entity that evaluates workplaces on key criteria such as credibility, respect, fairness, pride, and camaraderie.

FDP SCHEDULE

Start Date: 5th Feb, 2024

End Date: 9th Feb, 2024

Timings: 10:00 AM to 3:00 PM (Including 1 hour Lunch Break)

Mode of FDP: Online on Microsoft Teams



Please Use the Following Link to Register



<https://forms.gle/KYjHA5FcKw1y5p3E7>



Chief Patrons:

Smt. Alka Das Gupta

Hon'ble Chairperson, BBD Group of Education, Lucknow

Sh. Viraj Sagar Das

Hon'ble President, BBD Group of Education, Lucknow

Ms. Sonakshi Das

Hon'ble Vice President, BBD Group of Education, Lucknow

Patron:

Dr. V. K. Singh

Director (Engg.), BBDNIIT, Lucknow

Convener(s)

Dr. Anurag Srivastava

Dr. Bhawesh Kr. Thakur

Prof. Sanjay Kumar Sharma



Reach out to us for more information



www.techsaksham.org



info@techsaksham.org

Follow us for the latest information!



[/edunetfoundation](https://www.facebook.com/edunetfoundation)



[/edunetfoundation](https://www.linkedin.com/company/edunetfoundation)



[/edunetf](https://twitter.com/edunetf)



[/edunetfoundation](https://www.instagram.com/edunetfoundation)