



Combined Report
On
Activities conducted under AADC@NCU
Sponsored by AIU
(August 2024-March 2025)

Event 1: Staff Development Programme on "Big Data Analytics: Recent Trends, Tools & Technologies" from October 21-25, 2024

Overview

The Big Data Analytics Staff Development Program (SDP) was conducted to equip participants with the skills to apply Data Analytics in addressing the complexities and opportunities presented by Big Data. The primary aim of the program was to certify participants as Big Data practitioners, offering comprehensive hands-on training in the Hadoop ecosystem, focusing on critical components such as HDFS, MapReduce, Hive, and Spark.

Program Structure

This intensive, five-day program was specifically designed for professionals and academicians with backgrounds in Engineering, as well as Business Analysts holding MBA or BBA qualifications. Through the structured sessions, participants delved into the evaluation of trends and the understanding of Big Data processes. The program offered extensive insights into the platforms, processing, management, and analytics associated with Big Data.

Objectives

The SDP's objectives were to:

- Provide an understanding of the Big Data landscape, including tools and platforms within the Hadoop ecosystem.
- Equip participants with the skills to handle large-scale data challenges.
- Enable participants to leverage Big Data Analytics for career growth and potential role changes within their organizations.
- Facilitate exploration of advanced technological frontiers through interactive sessions and real world industry projects.

Participants: 22

❖ Session Details

Day	Sessions	
Day 1 (21 st Oct)	Inauguration Ceremony (1:30 PM – 2:15 PM)	Session 1: Mr. Mohit Arora (IBM Research Lab) (3:00 PM – 5:15 PM)
Day 2 (22 nd Oct)	Session 2: (Internal Expert) Dr. Meghna Sharma (1:00 PM – 2:00 PM)	Mr. Pulkit Narwal (Internal Expert) Session 3: (2:15 – 3:45 PM) Session 4: (4:00 – 5:20 PM)
Day 3 (23 rd Oct)	Session 5: Dr. Amit Sangroya (TCS Research Group) (1:30PM – 3:30 PM)	Session 6: Dr. Meghna Sharma (Internal Expert) (3:45 PM- 5:20 PM)
Day 4 (24 th Oct)	Session 7: Dr. Meghna Sharma (Internal Expert) (1:30PM – 3:30 PM)	Session 8: Mr. Ravikant Tyagi (Xebia Academy) (3:45 PM- 5:20 PM)
Day 5 (25 th Oct)	Session 9: Mr. Ravikant Tyagi (Xebia Academy) (1:30PM – 3:30 PM)	Session 10: Mr. Ravikant Tyagi (Xebia Academy) (3:45 PM- 5:20 PM)

Event 2: FDP cum Capacity Building Programme on "Design Thinking and Innovation" from December 09th -13th, 2024

The Faculty Development Programme (FDP) cum Capacity Building Programme on "Design Thinking and Innovation" was organized from 9th to 13th December 2024 by the Department of Multidisciplinary Engineering, The NorthCap University, Gurugram, Haryana, India under Academic & Administrative Development Centre (AADC) Established by Association of Indian Universities (AIU). The event aimed to foster a human-centric approach to problem-solving among participants, equipping them with tools and techniques to inspire innovation in teaching, research and industry work.

Schedule and Highlights of the FDP

Day 1: Monday, 9th December 2024

Inauguration Session

The Faculty Development Program (FDP) cum Capacity Building Programme on Design Thinking and Innovation began with an engaging and inspiring inaugural session. The session opened with a warm welcome address by Dr. Vandana Khanna, Program Convener, who emphasized the importance of fostering an innovative mindset among educators, students and industry experts. Dr. Vashisth set the tone for the event, highlighting how design thinking can drive creative solutions to real-world problems. An online address by Ms. Ranjana Parihar, Joint Secretary, Association of Indian Universities (AIU), delivered an insightful and encouraging address during the inaugural session of the FDP. She began by discussing the initiative to establish the AIU-Academic and Administrative Development Centre (AADC) at The NorthCap University, a significant step toward fostering academic and administrative excellence in higher education. Dr. Satnam Singh, AADC Coordinator, expressed gratitude to AIU representatives for establishing the AADC at NCU and appreciated their presence during the inaugural session, inspiring participants with their insightful guidance.

The keynote session (Session 1 of FDP) was delivered by Dr. Pavan Soni, Founder and Innovation Evangelist at Inflexion Point Consulting and author of Design Your Thinking. Dr. Soni introduced the EDIPT (Empathize, Define, Ideate, Prototype, Test) Design Thinking Model, providing participants with practical insights and tools to drive innovation in their professional practices and problem-solving approaches. His interactive session provided a strong foundation for the FDP.

Session 2: Opportunities in Disguise - Identifying Problem Areas and Pain Points

Speaker: Prof. Anjali Garg, NCU

Time: 3:00 pm – 5:00 pm

This session emphasized the importance of recognizing opportunities hidden within challenges. Participants reflected on pain points and identified potential areas for innovation.

Day 2: Tuesday, 10th December 2024

Session 3: Empathize - Stepping into the User's Shoes

Speaker: Dr. Aneesha Sharma, Associate Professor, IIT Delhi

Time: 12:30 pm – 2:30 pm

Dr. Aneesha provided an engaging overview of the history of design thinking, emphasizing its evolution. She also delved into the empathy technique, highlighting its role in conducting elective customer surveys.

Session 4: Empathy Mapping - Visualizing User Experiences

Speaker: Dr. Vandana Khanna, NCU

Time: 3:00 pm – 5:00 pm

This session involved deeper understanding of empathy and its importance in design thinking approach. She guided participants in creating empathy maps to visualize and analyse user experiences and emotions, enabling deeper design insights.

Day 3: Wednesday, 11th December 2024

Session 5: Define - Framing the Right Problem (POV)

Speaker: Dr. Lokesh Choudhary, NCU

Time: 12:30 pm – 2:30 pm

Through a customer journey mapping activity, participants learned how to articulate precise problem statements.

Session 6: Ideate - Generating Creative Solutions

Speaker: Mr. Namit Bharija, Design Thinking Corporate Trainer

Time: 3:00 pm – 5:00 pm

This session encouraged various techniques such as Task Unification, Subtraction, Alternate Worlds and Attribute Dependency to generate innovative solutions to framed problems.

Day 4: Friday, 13th December 2024

Session 7: Innovation, Product Design, and Development

Speaker: Dr. Satnam Singh, NCU

Time: 9:00 am – 10:30 am

The session provided insights into various types of Innovation and the structured processes to translate ideas into innovative products. Various case studies were discussed for deeper understanding.

Session 8: Prototyping - Bringing Ideas to Life

Speaker: Dr. Vandana Khanna, NCU

Time: 11:00 am – 12:30 pm

Importance of prototypes in design thinking process was explained and the various ideas of creating prototypes were discussed. Dr. Khanna gave some keywords to participants to come up with mobile app based prototypes. Participants created prototypes to bring their ideas to life, facilitating hands-on experience in design thinking.

Session 9: Testing - Iterative Feedback and Refinement

Speaker: Dr. Lokesh Choudhary, NCU

Time: 1:00 pm – 2:30 pm

This session emphasized the importance of testing prototypes and incorporating feedback for refinement.

Session 10: Scaling and Implementing Design Thinking in Organizations

Speaker: Dr. Lalit S. Kathpalia, Success Coach, IIM Kozhikode

Time: 3:00 pm – 4:30 pm

Dr. Kathpalia inspired the participations for innovation to be applied through design thinking approach. He discussed various case studies where the design thinking approach worked to give the cost effective and best solutions to various real-world problems.

Quiz and Valedictory Session

Speakers: Dr. Vandana Khanna & Dr. Satnam Singh, NCU

Time: 4:30 pm – 5:00 pm

The FDP concluded with a quiz to reinforce key learnings, followed by a valedictory session to acknowledge the contributions of speakers and participants. Feedback was collected; the participants found the program highly effective. Highly positive feedback was received from the participants regarding the overall usefulness of the program, the effectiveness of the content delivery, and the engagement of the speakers with the participants.

Participant: 20

Event 3: "5 Day Faculty Development Programme at The NorthCap University from 6th to 10th Jan 2025 organised by Academic and Administrative Development Centre (AADC), NCU in collaboration with Association of Indian Universities (AIU) and Commonwealth Educational Media Centre for Asia (COLCEMCA)

Day 1: Inaugural Session and Session on Salient features of NEP 2020

Dr. Satnam Singh, AADC Coordinator welcomed all the dignitaries from the AIU Dr. Pankaj Mittal, Secretary General, and Ms. Ranjana Parihar Joint Secretary from Association of Indian Universities, Dr. B. Shadrach, Director, COL-CEMCA, New Delhi, Ms Monica Sharma and Aflaq Ahmad Shah from COL-CEMCA, Prof. Anjali Garg Director CDOE and all faculty members of The NorthCap University.

Day 2: Session on Concept and Scope of TEL and Role of TEL in BL approaches by Dr Santosh Panda, Consultant, COL-CEMCA & Former Director, STRIDE, IGNOU, New Delhi

Dr. Santosh Panda, an expert in online and distance learning provided great insight to the concept of blended learning. Dr. Santosh Panda, Consultant at COL-CEMCA and Former Director of STRIDE at IGNOU, New Delhi, delivered an insightful session on the concept and scope of Technology-Enabled Learning (TEL) and its role in Blended Learning (BL) approaches.

Day 3: Session on "Institutional Blended Learning Policy (IBLP)" by Ms Sheriya Sareen, Former Consultant, COL-CEMCA & Ph.D Scholar IIT Jammu and co-author IBLP Template

The Institutional Blended Learning Policy (IBLP) session conducted by Ms. Sheriya Sareen

focused on creating a structured framework to incorporate blended learning practices effectively within higher education institutions (HEIs). Blended learning, a pedagogical approach that integrates traditional face-to-face instruction with technology-enabled learning, has emerged as a cornerstone of modern education.

Day 4: Session on “Use of OERs, MOOCs, and LMS in Teaching and Learning” by Dr Barnali Roy Choudhury, Consultant, COL-CEMCA & Assistant Professor, DLIS, Netaji Subhas Open University, Kolkata, India

A session on “Use of OERs, MOOCs, and LMS in Teaching and Learning” by Dr. Barnali Roy Choudhury, Consultant at COL-CEMCA and Assistant Professor at Netaji Subhas Open University, highlighted the transformative potential of technology-driven tools in modern education. The session focused on Open Educational Resources (OERs), Massive Open Online Courses (MOOCs), and Learning Management Systems (LMS), emphasizing their role in enhancing accessibility, inclusivity, and quality in teaching and learning.

Day 5: Session on “Skilling and Graduate Employability” by Dr. Ashish Awadhiya, Consultant, COL-CEMCA & Assistant Director, Training and Development, IGNOU, New Delhi

The session on “Skilling and Graduate Employability,” conducted by Dr. Ashish Awadhiya, Consultant at COL-CEMCA and Assistant Director of Training and Development at IGNOU, focused on the critical intersection of skill development and graduate employability in the evolving job market. The session highlighted the importance of aligning academic curricula with industry requirements and emphasized the role of institutions in equipping graduates with the skills needed for a dynamic and competitive global workforce.

Valedictory Session: Prof. Anjali Garg, Director CDOE, NCU thanked AIU, CoL CEMCA and all experts for their valuable contributions to the 5-day FDP program. Ms. Ranjana Parihar Joint Secretary from Association of Indian Universities highlighted the role of AIU in establishing AADC across nation for improving skills of the stakeholders. Dr. B. Shadrach expressed his wish to further collaborate with NCU faculties for further CEMCA programmes and appreciated the participation from faculty members. The program ended with a vote of thanks, from Dr. Satnam Singh, coordinator AADC-NCU to all the stake holders.

Participant: 71

Event 4: AIU-AADC sponsored 5 days E-MDP on "Mastering Sales" from February 3 - 7, 2025

The 5-day E-MDP on Mastering Sales from 3rd - 7th Feb 2025 organized by Department of Management and Commerce, The NorthCap University, Gurugram in association with AADC- AIU (Association of Indian Universities) successfully concluded on 7th Feb 2025. Below are some of the highlights of the program:

On Feb 3rd 2025, the inaugural began with an air of excitement in presence of dignitaries as Prof Prem Vrat (Chairman BOG IIT(ISM) Dhanbad and Pro-Chancellor, The NorthCap University), Prof. Nupur Prakash (Vice-Chancellor, The NorthCap University, Gurugram) and Ms. Ranjana Parihar (Jt. Secretary AIU), who addressed the audience with their wise words highlighting the importance of continuous learning and adapting to the technological changes in the business environment with help of upskilling through programs like this . Dr. Deerga Sharma (Head- Department of Management and Commerce) and Dr. Akshat Aditya Rao (Convener) welcomed the dignitaries and participants for the event. The online program saw participation of **36 participants from 15+ organizations** from diversified industries as manufacturing, banking, distribution, real estate, IT, consulting and retail.

The E-MDP provided audience an understanding of changing sales landscape, use of technology for better sales performance and strategies for sustainable growth. Participants shared their appreciation for the practical approach, industry-driven insights, and the flexibility of online learning. The interactive nature of the sessions, along with expert guidance, made the E-MDP an enriching experience for all. Below are some excerpts from the event:

Day 1, Feb 03, 2025: Mr. Nikhil Chandra's session on evolving sales trends and strategies to adapt to changing market dynamics helped audience in understanding the challenges in front of marketers today and strategies to overcome the same.

Day 2, Feb 04, 2025: Dr. Akshat Aditya Rao acquainted participants to the structured selling process and its importance for a salesperson and the organization. He also emphasized on importance of prospect.

Day 3, Feb 05, 2025: Mr. Rohit Singal explained the objection handling, closing deals and benefits of forging strong customer relationships.

Day 4, Feb 06, 2025: Mr. Pulkit Om Gupta shared insights on utilizing digital tools and technology to enhance sales efficiency.

Day 5, Feb 07, 2025: On the last day of MDP Prof. H.K. Dangi guided participants on time management, overcoming challenges and maintaining momentum in sales roles.

Event 5: FDP on “Semiconductor Technology & Quantum Computing” from March 17th – 21st, 2025

The Department of Applied Science at NCU successfully organized a Faculty Development Program (FDP) on Semiconductor Technology and Quantum Computing from 17th to 21st March 2025 under the AIU-sponsored Academic and Administrative Development Centre (AADC). The program aimed at building capacity among faculty members in emerging semiconductor technology and quantum computing areas. The FDP aimed to provide an in-depth understanding of semiconductor materials, their applications, and advancements in quantum computing. The program focused on both theoretical concepts and practical demonstrations through hands-on sessions.

Program Schedule & Key Highlights

The five-day FDP included expert sessions from eminent academicians and industry professionals.

Date	Time	Topic of Presentation	Speaker
Day 1	17.03.2025		
12:30-2:30	Basics of Semiconductor Materials and Superconductors	Dr. Arjun Singh	Assistant Professor, APS, NCU
2:30-4:30	Basics of Quantum Mechanical Phenomenon for Quantum computing	Dr. Arjun Singh	Assistant Professor, APS, NCU
Day 2	18.03.2025		
12:30-2:30	Introduction to Quantum Computing	Dr. Anupama Rai	IBM India
2:30-4:30	Hands-on Experience: Characterization	Dr. Chetna Tyagi	Assistant Professor, APS, NCU
Day 3	19.03.2025		
12:30-2:30	Semiconductor: Future Scope	Dr. Sharda Vashisth	Professor, MDE, NCU
2:30-4:30	Semiconductor Technology: Application in IoT & Other Areas	Dr. Pooja Sabharwal	Associate Professor, MDE, NCU

Day 4 20.03.2025

12:30-2:30	2D Semiconductor Materials	Dr. Lena Yadgarov	Professor, Ariel University, Israel
2:30-4:30	Phase Change Random Access Memories - Materials and Characterization	Dr. Smriti Sahu	Assistant Professor, Sonoran Desert Institute, Tempe, AZ, USA

Day 5 21.03.2025

12:30-2:30	Hands-on Experience: Device Fabrication	Dr. Chetna Tyagi	Assistant Professor, APS, NCU
2:30-4:30	Realization of SI Unit Meter	Dr. Mukesh Jewariya	Scientist, National Physical Laboratory, New Delhi

A total of 16 participants attended the FDP in hybrid mode, comprising faculty members and research scholars from various institutions. The hybrid mode enabled wider participation, ensuring an interactive and engaging learning environment.

Key Takeaways

- Fundamental concepts and advancements in semiconductor materials and quantum computing.
- Hands-on training on characterization techniques and device fabrication.
- Insights into future applications of semiconductor technology in IoT, AI, and other emerging fields.
- Exposure to international research trends in 2D semiconductor materials and phase change random access memories.

This event significantly contributed to the professional development of the faculty members, ensuring their proficiency in cutting-edge technologies and enhanced research capabilities.