



Center of Excellence in Teaching and Learning (CETL)

**Bihar Agricultural University (BAU), Sabour
Bhagalpur, Bihar, India**

Organized in Collaboration with
Department of Agricultural Extension Education, BAU, Sabour

10 Days Faculty Development Program (FDP) on

**“Artificial Intelligence in Agricultural Education and
Research: From Fundamentals to Advanced Applications”
(Virtual Mode)**

5 – 14 October, 2026

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Artificial Intelligence in Agricultural Education and Research: From Fundamentals to Advanced Applications

The 10 Days Faculty Development Program (FDP) on “Artificial Intelligence in Agricultural Education and Research: From Fundamentals to Advanced Applications” is designed to equip faculty members with practical knowledge and skills to effectively integrate Artificial Intelligence and Generative AI into teaching, learning, research, and academic activities.

The FDP will provide a progressive learning experience, beginning with the fundamentals of prompt engineering and AI-powered academic practices and advancing towards specialized applications in agricultural education and research. The sessions will focus on the practical use of AI for teaching and learning, research design, text analytics, data analysis, visualization, scientific reporting, literature review, programming, precision research, and knowledge systems.

The programme will also introduce participants to emerging applications such as AI-powered research gap identification, Python programming with AI assistance, and explainable AI-based deep learning for plant disease detection.

KEY LEARNING AREAS

- **Fundamental Prompt Engineering for Teaching and Education**
- **AI-Powered Teaching, Learning and Academic Research**
- **Advanced Text Analytics in Agricultural Education**
- **Generative AI for Research and Innovation in Agriculture**
- **AI-Assisted Data Analysis, Visualization and Reporting**
- **AI for Smarter Agricultural Teaching and Precision Research**
- **Leveraging AI Technology in Agricultural Teaching and Research**
- **Python Programming Using AI in Agricultural Research**
- **AI-Powered Literature Review and Research Gap Analysis**
- **Explainable AI-Based Deep Learning for Plant Disease Detection**

PROGRAM DETAILS

Duration and Dates: **10 days (5 – 14 October, 2026)**

WHO SHOULD PARTICIPATE?

The FDP is exclusively designed for faculty members of Bihar Agricultural University, Sabour and other universities, colleges, research institutions and academic institutes interested in strengthening their capabilities in AI-enabled agricultural education and research.

TOTAL SEATS

100 Seats (First Come, First Served Basis)

CERTIFICATE

Certificates will be awarded to all registered participants who maintain a minimum of 80% attendance throughout the programme.

OBJECTIVE

To develop practical understanding and advanced skills in the application of Artificial Intelligence for agricultural education, research, academic writing, data analysis, and scientific communication.

REGISTRATION FEE

Faculty Members from BAU, Sabour: ₹500/-

Faculty Members from Other Institutes: ₹1,000/-

BANK DETAILS

A/C Name : **Department of Extension Education**
A/C No. : **462310210000326**
IFSC Code : **BKID0004623**
Bank Name : **Bank of India**
Branch : **Sabour**

Website: <https://www.bausabour.ac.in/CETL.aspx>
Email: bausabourcetl@gmail.com



Programme Schedule

10 days Faculty Development Program (FDP)

on

“Artificial Intelligence in Agricultural Education and Research: From Fundamentals to Advanced Applications”

1		Dr. Achint Nigam Associate Prof. (Marketing), BITS Pilani, Pilani Campus, Rajasthan
2		Dr. Kanaka K.K. Scientist (Animal Genetics and Breeding), ICAR-Indian Institute of Agricultural Biotechnology, Ranchi, Jharkhand
3		Dr. Surjya Kanta Roy Scientist (Agricultural Extension), ICAR-Agricultural Technology Application Research Institute, Kolkata, West Bengal
4		Dr. Soumen Pal Senior Scientist (Agricultural Statistics), ICAR-IASRI, New Delhi
5		Dr. Sendhil R Associate Professor (Ag Econ/ Dev Econ), Pondicherry University, Puducherry
6		Renuka Vallarapu Senior Management Analyst Seattle, WA, USA
7		Dr. Santosh Mahapatra Associate Professor, Department of Humanities and Social Sciences, BITS Pilani- Hyderabad Campus, Telangana
8		Dr. Basudev Koley Associate Professor, (Ag. Statistics), BAU, Sabour, Bihar
9		Dr. Aditya Sinha Associate Professor, (Agril. Extension Education), BAU, Sabour, Bihar
10		Dr. Om Prakash Singh Assistant Professor (CSE), Indian Institute of Information Technology (IIIT), Bhagalpur, Bihar

Sl No.	Title
1.	Fundamental Prompt Engineering for Teaching and Education
2.	AI-powered academia: rethinking learning, teaching and research
3.	Advanced Text Analytics in Agricultural Education
4.	Harnessing Generative AI for Research and Innovation in Agriculture
5.	Use of AI in Research: Data Analysis, Visualisation and Reporting
6.	Harnessing Artificial Intelligence for Smarter Agricultural Teaching, Precision Research, and Scalable Knowledge Systems: Transforming Learning Outcomes for Agriculture Sciences students and productivity for farmers
7.	Leveraging AI Technology in Agricultural Teaching and Research
8.	Python Programming Using AI in Agricultural Research
9.	AI-Powered Literature Review and Research Gap Analysis in Agriculture
10.	Explainable AI-Based Deep Learning Framework for detection of Plant Disease

Organizing Committee

Patron
Dr. D. R. Singh
Vice Chancellor
BAU, Sabour

Chairman
Dr. Ruby Rani
Principal
BAC, Sabour

Convener
Dr. Shweta Shambhavi
DSW
BAU, Sabour

Organizing Secretary
Dr. Aditya Sinha
Assoc. Prof. & O/I, (CETL)
BAU, Sabour

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