



Ministry of Education  
Government of India



# KALINDI COLLEGE

Department of Computer Science

University of Delhi

<https://www.kalindicollege.in/>

is  
organising

## ONE WEEK INTERDISCIPLINARY ONLINE FACULTY DEVELOPMENT PROGRAMME

On

"Applications of AI-Machine Learning and Soft  
Computing Techniques"

in collaboration with

**MAHATMA HANSRAJ FACULTY DEVELOPMENT CENTRE**  
(A Centre of MoE, Govt. of India under PMMMNMTT Scheme)

## HANSRAJ COLLEGE

(NAAC A+ CGPA 3.62)

University of Delhi

Mahatma Hansraj Marg, Malka Ganj, Delhi-110007

<https://www.hansrajcollege.ac.in>

**29<sup>th</sup> Jan – 3<sup>rd</sup> Feb  
2022**

**LIVE SESSIONS  
1:30 p.m. to 5:00 p.m.**

*Last date to register:  
26<sup>th</sup> Jan, 2022*

Registration link:  
<https://forms.gle/T4WjqiyjWN668QBL8>



<https://www.mhrfdc.in>



[fdp.hrc@gmail.com](mailto:fdp.hrc@gmail.com)



@hrcduofficial

## About PMMMNMTT

The Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching emphasises the need to change the role and working of a teacher from mere disseminator of information and knowledge to the one who advances frontiers of existing knowledge by actively developing and creating new insights into diverse social and physical phenomena.

## About Hansraj College



**Hansraj College** is one of the largest constituent colleges of the University of Delhi and has been ranked as one of the top five colleges for science, arts and commerce several times in the last decade. The faculty and students of the college have contributed immensely to the fields of academics, sports and culture. The college faculty is dedicated towards the growth and development of the institution academically and administratively and constantly thrive for excellence. Hansarians have been placed in diverse professions and services worldwide and are bringing fame and laurels to the institution.

# About Kalindi College



**Kalindi College**, an institute of academic excellence and achievement, was established in 1967 as a constituent college of the University of Delhi with a vision to cater to the need of higher education of young women, especially those belonging to the weaker sections of the society. The College provides a nourishing environment for quenching the thirst of knowledge and fulfils its responsibility in moulding young women into sensitive and responsible citizens of the country. With a team of well qualified, distinguished teaching faculty who are always actively engaged in academic pursuits along with their institutional responsibilities and a efficient and cooperative administrative/ technical/ support staff, the College aims to provide quality education and all-round development to its over 3620 regular students, approximately 1280 Non-collegiate students and about 2000 students enrolled under the School of Open Learning Centre. The college has been accredited with an “A” grade by the National Assessment and Accreditation Council (NAAC).

# About the Programme

Artificial Intelligence is playing a major role in almost every aspect of everyday life driven by rapid evolution in Machine Learning and Soft Computing techniques. These techniques are being widely applied to provide solution to a whole range of complex problems related to diverse computational fields. The area is gaining importance as there is a growing demand for Machine Learning professionals and researchers in academia, businesses, government agencies and scientific community.

'Applications of AI- Machine Learning and Soft Computing Techniques' is a five-day Faculty Development Programme (FDP) which has been designed with a primary focus of bringing together experts, teachers and researchers to train and discuss about Machine Learning Algorithms and Soft Computing Techniques and their applications. The objective of this FDP is to present recent trends and provide the guidelines to explore Machine Learning and Soft Computing techniques for research work in varied field of applications and research.

## Expected Outcomes of FDP:

- *To get acquainted with primary Machine Learning and Soft Computing techniques .*
- *To understand primary application and research areas.*
- *To get acquainted with application methodologies via demonstration during sessions.*
- *To be able to analyse the results of ML and Soft Computing techniques.*
- *To acquaint with primary guidelines to follow for application of Machine Learning techniques.*

# Online FDP on “Applications of AI- Machine Learning and Soft Computing Techniques”

January 29- February 03, 2022

## PROGRAMME SCHEDULE

Time → Date ↓	Session I 1:30 pm -3:00 pm	3:00 pm- 3:30 pm	Session II 3:30 pm- 5:00 pm
29-01-2022  Saturday	<u>Inaugural- 1:00 pm to 1:30 pm</u>  Session : Introduction to Machine learning <b>Dr. Kusum Kumari Bharti</b> IIITDM, Jabalpur	<b>Break</b>	Introduction to Deep Learning and its Application <b>Dr. Mukesh Saraswat</b> JIIT, Noida
31-01-2022  Monday	Simple Linear Regression <b>Dr. Kusum Kumari Bharti</b> IIITDM, Jabalpur		Supervised Learning with Naive Bayes Algorithm <b>Dr. Ashish Tripathi</b> MNIT, Jaipur
01-02-2022  Tuesday	Bag-of-words for Classification <b>Dr. Raju Pal</b> JIIT, Noida		Swarm and Evolutionary Optimization <b>Dr. Mukesh Saraswat</b> JIIT, Noida
02-02-2022  Wednesday	Artificial Bee Colony Optimization <b>Dr. Harish Sharma</b> RTU, Kota		Convolutional Neural Network, Deconvolution and Semantic Segmentation <b>Dr. Himanshu Mittal</b> JIIT, Noida
03-02-2022  Thursday	Computational Intelligence for Social Network Analysis <b>Dr. Avinash Chandra Pandey</b> IIITDM, Jabalpur		Guidelines for Machine Learning Applications  <b>Prof. Naveen Kumar</b> University of Delhi & Valedictory

# Registration Details

Interested participants are requested to follow the steps mentioned below in order to register for the FDP:

- Participants are required to pay the registration fee of **Rs. 500** via **NEFT/IMPS/UPI** to the following account:

Account:	Principal, Hansraj College, FDC
Bank:	Canara Bank, Hansraj College, Delhi
Type of Account:	Savings
Account number:	2848101019873
IFSC:	CNRB0002848

- **NOTE : Fee is Non-Refundable**
- Pre-registration to the programme is through **online** mode only.
- Participants are required to fill the registration form using the following link. (Please ensure that you have payment proof before filling up registration form)  
Registration link: <https://forms.gle/T4WjqiyjWN668QBL8>
- The **last date** for registration is **26<sup>th</sup> January 2022**.
- **Participants** will be informed by **27<sup>th</sup> January, 2022**.
- Attendance norms are strict. Participants are required to clear the assessment component for getting the e-certificates.
- Further details will be communicated to the registered participants.
- **ELIGIBILITY:** The programme is **interdisciplinary** and is open to all interested participants. All faculty members (**Permanent/ Temporary/ Adhoc/ Guest**) and **Research Scholars** from any university/college are eligible to participate.

# Organising Committee

## MHRFDC TEAM

**Prof. (Dr.) Rama**

Principal, Hansraj College & Chairperson, MHRFDC

**Dr. Jyoti Bhola**

Coordinator, MHRFDC

**Mr. Ashutosh Yadav**

Dy. Coordinator, MHRFDC

## KALINDI COLLEGE TEAM

**Chief Patron**

**Prof. (Dr.) Naina Hasija**

Principal, Kalindi College

**FDP Convener**

**Dr. Nidhi Arora**

Department of Computer Science

Kalindi College

**FDP Coordinators**

**Dr. Sapna Varshney**

Department of Computer Science  
Kalindi College

**Ms. Kanishka Bamania**

Department of Computer Science  
Kalindi College