

ONE-WEEK ONLINE FACULTY DEVELOPMENT PROGRAMME on "ADVANCED TECHNOLOGIES IN LIFE SCIENCES" (February 6 - 11, 2023)

Online session from 1:30 pm - 5:00 pm (IST)

Organised By

**CENTRE FOR INNOVATION IN INFECTIOUS DISEASE,
RESEARCH, EDUCATION & TRAINING (CIIDRET)**

<https://ciidret.du.ac.in>

&

**INSTITUTE OF EMINENCE(IOE)-DELHI SCHOOL OF
SKILL ENHANCEMENT & ENTREPRENEURSHIP
DEVELOPMENT(DSSEED)**

<https://www.ioe.du.ac.in/delhi-school-of-skill-enhancement-entrepreneurship-development>

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, NIRF Rank #14)

University of Delhi

Malka Ganj, New Delhi - 110007

E.mail- fdp.hrc@gmail.com

For registration, please visit the given link

<https://bit.ly/3kcwKJ4>

Online sessions will be conducted on the Zoom platform. The link for the sessions will be shared with registered participants through the mail.

**Rs 500/-
Registration
Fee
Applicable**

**Registration
Deadline
3rd Feb
2023**

Contact Details

Prof. Amita Gupta
Director CIIDRET
Contact No. - 9811509609
email - amitagupta@south.du.ac.in

Dr Vijay. K. Chaudhary
Hon. Director DSSEED
Contact No. - 9811800434
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About PMMMNTT

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

About Hansraj College, University of Delhi

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 academics, sports and cultural activities. The college faculty is dedicated towards the growth and development of the institution academically and administratively to thrive for excellence constantly. Hansraj graduates have been placed in diverse professions and services worldwide and are bringing fame and laurels to the institution.

About Centre for Innovation in Infectious Disease, Research, Education & Training (CIIDRET)

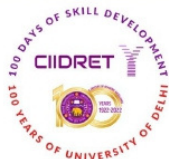
- Centre for Innovation in Infectious Disease Research, Education, and Training (CIIDRET) was established in October 2015 under Ordinance XV-A of the University of Delhi and with due approvals from the Academic Council and the Executive Council of the University.
- Professor Vijay Chaudhary was its founder director till August 2020 followed by Professor Yogendra Singh till March 2022. Professor Amita Gupta is the Current Director.
- As is reflected in its name, besides carrying out Innovative research by its core members, CIIDRET has been imparting training for different skills not only to students, but also the teachers and scientists from DU and outside institutions through hands-on courses in advanced technologies, CIIDRET has also been organising lectures by Innovators, Industry leaders and facilitators of research and innovation. CIIDRET has been providing state-of-the-art Proteomic and Genomic analytical facilities along with expert advice to scientists from academia and Industry and offers consultancy to the Biotech Industry.
- CIIDRET members are carrying out high-quality Innovative research on diagnostics and therapeutics for infectious diseases with a focus on HIV(AIDS), Tuberculosis, Chikungunya and COVID-19.
- CIIDRET has been amply supported by government funding agencies including DBT. Besides high-quality publications, most of the work has Intellectual Property value; hence, appropriate patent applications are regularly filed. The work carried out by CIIDRET core members has been adequately rewarded through National and International Awards.

100 Days Skill Development Festival

The University of Delhi is celebrating its centenary year signifying 100 glorious years of education and empowerment. To join in these celebrations, the Centre for Innovation in Infectious Diseases, Research, Education and Training (CIIDRET) and Delhi School of Skill Enhancement & Entrepreneurship Development (DSSEED), a part of the Institution of Eminence (IoE), have joined hands to organise a 100 days festival of Training and Skill Enhancement. Many University colleges and Biopharma Industries have joined as partners in the festival.

This 100-day festival brings together students, teachers, academicians, industry and facilitators on one platform and provides an ecosystem that promotes learning, collaboration and networking. Hands-on training courses and Public Lectures spanning diverse areas in Biotechnology are being conducted at the festival. The faculty for these courses include experienced teachers and renowned scientists from academia and industry. Customised courses on different topics and learning levels have been created for the skill development of students, research scholars, teachers and scientists.

This 100-day skill festival is in line with Our Hon'ble Prime Minister's vision of "Atmanirbhar Bharat" and a developed nation in 2047.



100 DAYS SKILL DEVELOPMENT & TRAINING FESTIVAL

(Starting from 17th December 2022)



100 Years of Delhi
University

100 Days of Skill
Development

100 DAYS FOR YOU TO -

For Students,
Research Scholars,
Scientists, Teachers
and Industry.

- Become a part of One of the Most Successful National Hands-On Training Eco-System.
- Know the Latest in Science.
- Cultivate Multi-Direction Research Approach.
- Enhance Skills Through "Learning by Doing".
- Interact with the Experts.
- Network with Academicians and Industry Leaders.

TRAINING MODULES -

1. TECHNIQUES FOR MANIPULATION OF NUCLEIC ACIDS FOR APPLICATIONS IN GENOMICS
2. NEXT-GENERATION SEQUENCING AND DATA ANALYSIS
3. ELISA AND ITS APPLICATIONS
4. PCR, REAL-TIME PCR AND ITS APPLICATIONS
5. RECOMBINANT PROTEIN EXPRESSION AND PURIFICATION

6. INFORMATICS TOOLS FOR BIOLOGISTS
 7. METHODS IN PHAGE BIOLOGY
 8. MICROBIOLOGICAL TECHNIQUES
 9. SCIENCE WRITING AND COMMUNICATION
 10. RECOMBINANT ANTIBODY TECHNOLOGY
- and many more.....

Organized by-

CIIDRET

CENTER FOR INNOVATION IN INFECTIOUS
DISEASE RESEARCH, EDUCATION AND TRAINING

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दिल्ली विश्वविद्यालय INSTITUTE OF EMINENCE
University of Delhi प्रतिष्ठित संस्थान

DELHI SCHOOL OF SKILL ENHANCEMENT &
ENTREPRENEURSHIP DEVELOPMENT

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ACADEMIC PARTNERS



INDUSTRY PARTNERS



Prof. Amita Gupta
Director CIIDRET
Contact No. - 9811509609
email - amitagupta@south.du.ac.in

Dr Vijay. K. Chaudhary
NASI-Senior Scientist, Hon. Director DSSEED
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email - vkchaudhary@south.du.ac.in

IoE - Delhi School of Skill Enhancement and Entrepreneurship Development

The University of Delhi, in its commitment to empower the nation and to make India Self-Reliant (Atmanirbhar Bharat), has established a flagship institute, Delhi School of Skill Enhancement and Entrepreneurship Development (DSSEED), under the Institution of Eminence (IoE).

It is headed by renowned innovator and Biochemist, Professor Vijay K. Chaudhary (Honorary Director). The DSSEED is guided by a Governing Body comprising eminent scientists and innovation facilitators under the Chairmanship of Prof. N. K. Ganguly, Former Director-General, of ICMR.

DSSEED envisages empowering young talent from all streams by providing them with opportunities at different levels-

- To enhance their skills in a structured manner through training, and to incubate the ideas leading to develop new processes, products and technologies.
- To develop an entrepreneurial spirit by creating an ecosystem that promotes launching, sustaining and expanding business ventures.

Objective of DSSEED-IoE

- One of the prime objectives of DSSEED is to offer courses (Both Theory and hands-on) for enhancing the Skills of Undergraduates, Graduates and research scholars including young teachers of the University and also from other Institutions in all fields including Biological, Chemical, and Physical, Mathematical Sciences, Social science and Humanities, Commerce and Economics, Finance and Management, Law with special focus on IPR and Technology Transfer etc. to sharpen their research calibre and encourage them for Innovative research and taking up Entrepreneurship as a career option and to address and meet the immediate and ever-evolving future challenges in an integrated fashion and contribute to the national development.
- DSSEED will also provide incubation facilities for Students, and Entrepreneurs and also to research-minded College Teachers for furthering their research interests by providing the necessary infrastructure and the right ecosystem. The need for such an institution is in line with the Government of India's vision to enhance the incubation of new ideas, start-ups and entrepreneurship.
- The DSSEED will employ Innovative mechanisms in an integrated manner to shape young minds to meet global needs and fulfil the dream of "Make in India, Made for World".

About the FDP - Objectives & Content

This FDP aims to educate about the modern tools and techniques employed in Life Science research and Innovation. The speakers from academic institutions and the Industry are authorities in the subject. The knowledge imparted will help in the teaching of the subject matter to students of FYUP and PG, and also in research activities. The FDP will also connect the participants with the experts for guidance in the future.

The topics in the FDP will be covered through online lectures with content encompassing the fundamentals to applications and case studies.

- Flow Cytometry, Fluorescence-activated Cell Sorting (FACS) and its applications.
- Chromatographic techniques for Protein purification.
- Next Generation Sequencing and its applications.
- Genomics-Driven Cancer Diagnostics.
- New Era of Vaccinology - The mRNA Platform
- DNA Fingerprinting and its Applications.
- Metabolomics and its applications.
- CRISPR (clustered regularly interspaced short palindromic repeats) and its applications
- Antibodies for diagnostics and therapeutics.

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

1. Pre-registration for the programme is through online mode only.
2. Participants are required to fill out the registration form using the following link. (Please ensure that you have payment proof before filling up the registration form).
3. Registration link: <https://bit.ly/3kcwKJ4>
4. The last date for registration is 3rd February 2023.
5. Participants will be informed by 5th February 2023.
6. Attendance norms are strict. Participants are required to clear the assessment component for getting the e-certificate.
7. Further details will be communicated to the registered participants.
8. **ELIGIBILITY:** The programme is interdisciplinary and is open to all interested. All faculty members (Permanent/ Temporary/ Adhoc/ Guest) and Research Scholars from any university/college are eligible to participate.

ORGANISING TEAM

MHRFDC Team

Prof. (Dr.) Rama
Principal, Hansraj College
&
Chairperson, MHRFDC

Prof. (Dr.) Jyoti Bhola
Coordinator, MHRFDC

Mr. Ashutosh Yadav
Dy. Coordinator, MHRFDC

CIIDRET & DSSEED Team

Prof. Amita Gupta
Director, CIIDRET
FDP Convenor

Prof. Vijay K. Chaudhary
Director (Hon.) DSSEED
FDP Coordinator