



सत्यमेव जयते
Ministry of Education
Government of India

**ONE WEEK INTERNATIONAL
ONLINE FACULTY DEVELOPMENT PROGRAMME
ON**

**MATERIALS CHARACTERIZATION:
EXPERIMENTAL AND THEORETICAL ASPECTS**

**September 20 – 24, 2021
1400 hrs – 1800 hrs (IST)**

ORGANISED BY

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

**HANSRAJ COLLEGE
(NAAC A+ CGPA 3.62, NIRF Rank #9)**

**UNIVERSITY OF DELHI
MAHATMA HANSRAJ MARG, MALKA GANJ, DELHI-110007
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 www.mhrfdc.in

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ABOUT PMMMNMTT SCHEME

The Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching scheme of the Ministry of Education, Government of India, emphasizes 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 & 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 THE PROGRAMME



The objective of this programme on 'Materials Characterization: Experimental and Theoretical Aspects' is to provide a broad overview of the experimental and theoretical techniques which are generally used for characterizing the material properties in basic sciences, nanotechnology, metallurgy and mechanical engineering.

This five day programme will include introductory lectures, overview of data analysis tools and techniques, working knowledge and application of,

- ✓ X-RAY DIFFRACTION
- ✓ ULTRAVIOLET-VISIBLE SPECTROSCOPY
- ✓ SCANNING ELECTRON MICROSCOPY
- ✓ TRANSMISSION ELECTRON MICROSCOPY
- ✓ RAMAN SPECTROSCOPY
- ✓ INFRARED SPECTROSCOPY
- ✓ DENSITY FUNCTIONAL THEORY

The target audience includes faculty members and research scholars from disciplines of physics, chemistry, nanoscience and engineering (materials, metallurgical etc.). They will get a perfect platform to interact with leading scientists and technologists who are actively involved in material science research and to benefit from their vast experience. It will enhance their understanding of characterization of a wide range of materials and optimization of their performance properties

REGISTRATION DETAILS

REGISTRATION PROCESS - STEP I - FEE SUBMISSION

Participants are required to pay a registration fee via NEFT/IMPS/UPI to the following account

Registration Fee	:	INR 550 (Indian Participant)/ USD 20 (International Participant)
Account	:	Principal, Hansraj College, FDC
Bank	:	Canara Bank, Hansraj College, Delhi
Type of Account	:	Savings
Account number	:	2848101019873
IFSC	:	CNRB0002848
Swift Code	:	CNRBINBBDFM (For the Use of International Participant Only)

REGISTRATION PROCESS - STEP II - FORM SUBMISSION

Fill the Registration Form through the link: <https://bit.ly/2WMhIyi>

- ✓ **NOTE: Fee is NON-REFUNDABLE.** Pre-registration to the programme is through online mode only.
- ✓ Last date for registration is **16th September 2021**
- ✓ FDP details will be shared with confirmed participants by **18th September 2021**
- ✓ Attendance norms are strict. Participants are required to clear the assessment component for getting the e-certificates.
- ✓ **ELIGIBILITY:** All Faculty Members (Permanent/ Temporary/ Adhoc/ Guest) and Research Scholars from any University/ College are eligible to participate.

ORGANISING TEAM



PROF. (DR.) RAMA

Principal, Hansraj College & Chairperson, MHRFDC

DR. JYOTI BHOLA

Coordinator, MHRFDC

MR. ASHUTOSH YADAV

Dy. Coordinator, MHRFDC

PROF. (DR.) NAMRATA SONI

International Programmes Incharge, MHRFDC

DR. CHETANA JAIN

FDP Convener

Department of Physics, Hansraj College

DR. PRADEEP KUMAR

FDP Co-Convener

Department of Physics, Hansraj College

MS. BHAVNA VIDHANI

DR. TANUJ DHAWAN

DR. RAVIKANT PRASAD

Members, Organising Committee

Department of Physics, Hansraj College