

CHIEF PATRON

Prof. Samsher

Hon'ble Vice Chancellor, HBTU, Kanpur

PATRON

Prof. Dipteek Parmar

Pro-Vice Chancellor, HBTU, Kanpur

CHAIRPERSONS

Prof. G.L. Devnani, Dean, SOCT, HBTU, Kanpur
Prof. Indira Nigam, HoD, Plastic Technology

ADVISORY COMMITTEE

Prof. Arun Maithani, HoD Paint Technology
Prof. Alak Kumar, HoD Food Technology
Prof. Ashish Kapoor, HoD Chemical Engineering
Prof. Praveen Kumar Yadav, HoD Oil Technology
Prof. Lalit Kumar Singh, HoD Biochemical Engg.
Mr. Sumant Chatterjee, HoD Leather Technology
Prof. J.S.P Rai, Ex-Director HBTI Kanpur
Prof. K.K. Pant, Director, IIT Roorkee
Prof. A.K. Nagpal, Ex-Director HBTI Kanpur
Prof. Shishir Sinha, Director General, CIPET
Prof. Vimal Katiyar, IIT Guwahati
Prof. Kamal K. Kar, IIT Kanpur
Dr. Syed Javed Ahmad Rizvi, AMU Aligarh

ORGANISING COORDINATORS

Prof. Deepak Srivastava, Plastic Technology
Dr. Manish Kumar, Plastic Technology

ORGANISING SECRETARY

Mohd. Rashid Khan, Plastic Technology

TARGET PARTICIPANTS

The faculty members of the AICTE/UGC approved institutions, degree colleges, research scholars, scientists.

REGISTRATION

NO REGISTRATION FEE

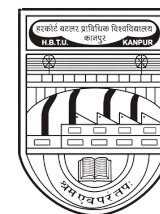
Last date of Registration: **18th May, 2024**

REGISTRATION FORM FORMAT

- 1.Name:.....
(In Block Letters)
- 2.Designation:.....
3. Name & Address of Institute/Organization:
.....
.....
4. Address for Communication:
.....
.....
5. E-Mail Address:.....
6. Mobile No.:.....
7. WhatsApp number:.....

Link for google form :

https://docs.google.com/forms/d/1OvxPQ_KQAOTmFNJqpWTlqqkPBo-4CQF9yyqnhNwXg7Q/edit



Online

One Week FDP

On

**“Advanced Materials
Characterization Techniques”**

20–24th May, 2024



Organized
by:

**Department of Plastic Technology
School of Chemical Technology
Harcourt Butler Technical University
Kanpur, Uttar Pradesh-208002
Website: www.hbtu.ac.in**

ABOUT THE UNIVERSITY

Harcourt Butler Technical University, Kanpur (Formerly HBTI, Kanpur) was established in 1921 and has a glorious history and has always been in the forefront for technological developments and growth of industries in the country since its inception. The Institute had its decent beginning as Government Technological Institute, Uttar Pradesh in 1921. The Institute was renamed as Harcourt Butler Technological Institute in 1926 in the honor of name of Sir Spencer Harcourt Butler, the then Governor of U.P. Degree courses in Oil Technology and Chemical Engineering were started in 1954 and thereafter number of undergraduate and post graduate courses were started. On March 26, 1965, it was upgraded from a Government Department status to an autonomous Institution. It was upgraded as Harcourt Butler Technical University, Kanpur on September 01, 2016 by Govt. of UP. University spreads across two campuses - East Campus (77 acres) and West Campus (271 acres) situated approximately 3 kilometers apart. The University provides a congenial environment for the holistic growth and all-round development of the students. The university has been accredited A+ by NAAC.

ABOUT THE DEPARTMENT

The Department of Plastic Technology was established in 1964. At that time B.Sc. Chemical Technology degree course of 3-year duration was started. In 1991 the course was upgraded to B. Tech. 4-year degree course after completion of 10+ with intake of 30. Besides this, the department also offers Doctoral programme in Plastic Technology and Applied Chemistry. The curriculum of these programs encompasses latest developments in the field as well as present and future needs of the industry. In 2018 and 2019 the curriculum of all subjects were modified as per the guidance of National Board of Accreditation (NBA), New Delhi, for Outcome Based Education (OBE) System and mapped COs of all subjects with Program Outcomes given by NBA and approved by BOS and Academic Council.

From session 2021-22 the M. Tech program with intake of 15 has been restarted and intake of B.Tech program has been increased to 60. The Department has built up a comprehensive research infrastructure with state of the art facilities for carrying cutting-edge teaching and research. The Department has contributed by way of paper publications in National/International journals of repute and by paper presentations in National/International conferences. The department has run various R&D projects sponsored by AICTE, DMSRDE, UPCST, etc. The B.Tech. Programme in Plastic Technology Department has been accredited by National Board of Accreditation since 2003.

ABOUT THE FDP

The main objective of the faculty development program is to give a complete overview on modern characterization techniques related to the interest of faculties of polymer technology, chemical engineering, chemical technology, material science. Experienced faculties from Indian Institutions of Technologies, scientists from research and development organization, industry personnel, etc. will be sharing their experience on the significance of advanced characterization techniques in the material world. Faculties from abroad will also share their research experience in the relevant field.

CERTIFICATION

The certificates shall be issued to those participants who have attended the program with minimum 80% attendance and scored minimum 50% marks in quiz and submitted feedback forms.

E-Certificates will be provided to all participants

COURSE MATERIAL

Soft copies of the study material, Lecture notes and presentations will be made available to participants at the end of FDP

RESOURCE PERSONS

The eminent academicians, scientists, researchers, industrialists from India and abroad will provide insightful information and salient features of advanced materials characterization techniques which will be definitely beneficial to explore these characterization techniques in their future research works.

TOPICS COVERED IN FDP

- Infrared Spectroscopy
- Nuclear Magnetic Resonance Spectroscopy
- Mass Spectroscopy
- Thermo gravimetric Analyzer
- Differential Scanning Calorimeter
- X-ray Diffraction
- Scanning Electron Microscopy
- Transmission Electron Microscopy
- Atomic Force Microscopy
- Electrochemical Characterization
- Analytical Techniques
- Advanced Characterization of Polymer Composites

CONTACT PERSONS

Dr. Manish Kumar, Assistant Professor
Mohd. Rashid Khan, Assistant Professor (Cont.)

Phone: +919458564476, +919125594726

E-mail: manish.kr@hbtu.ac.in

rashidkhancipet@gmail.com