



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय

नवाबगंज, कानपुर - 208002, उ.प्र., भारत

HARCOURT BUTLER TECHNICAL UNIVERSITY

NAWABGANJ, KANPUR - 208002, U.P., INDIA

(Formerly Harcourt Butler Technological Institute, Kanpur)

Phone : +91-0512-2534001-5, 2533812, website : <http://www.hbtu.ac.in>, Email : vc@hbtu.ac.in

100+ YEARS
1921 - 2021

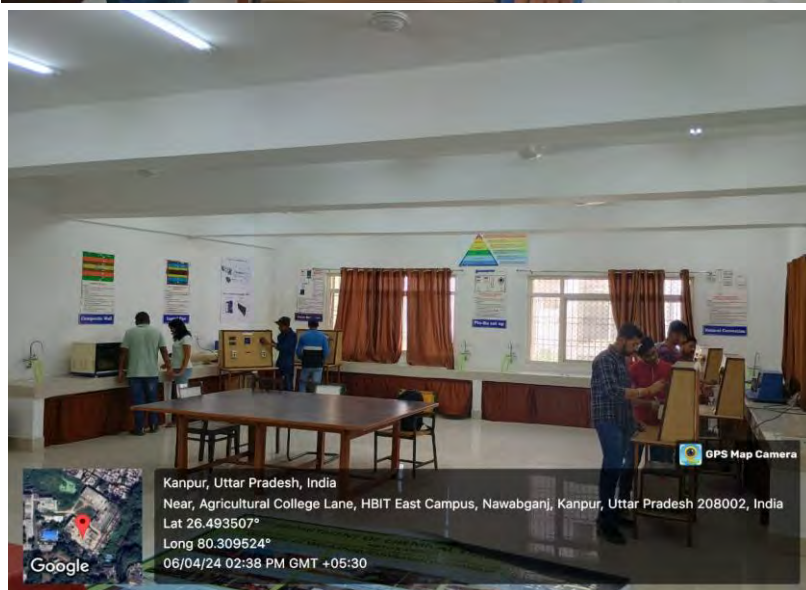


2.3.1 Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

(A) Experiential learning

1. Activity based learning

Department of Chemical Engineering PROCESS HEAT TRANSFER LAB



MASS TRANSFER OPERATIONS I & II LAB



CHEMICAL REACTION ENGINEERING LAB



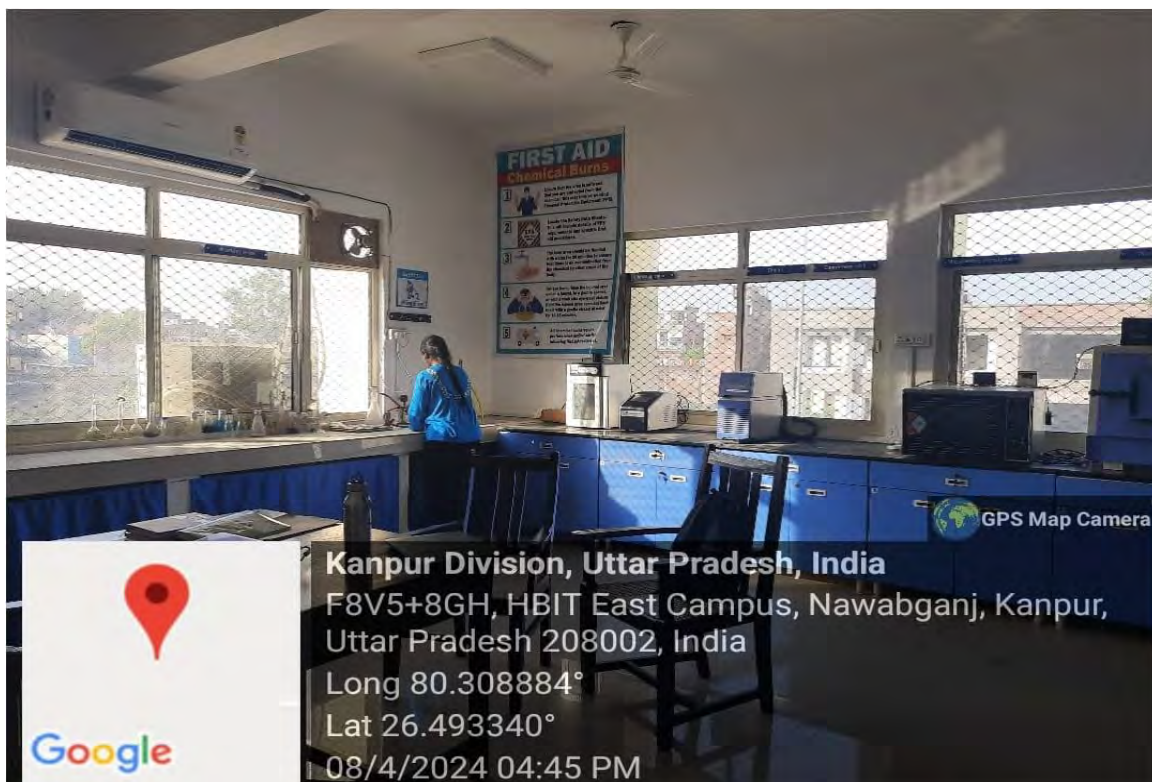
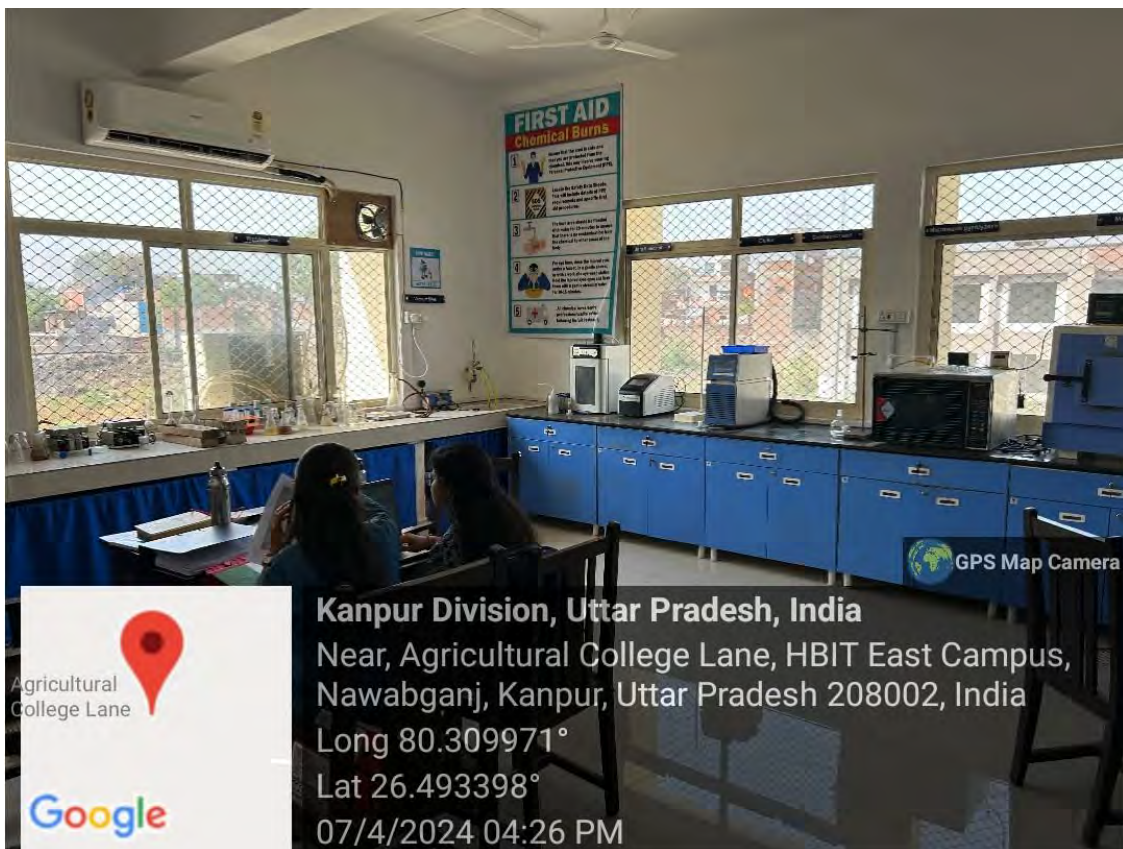
MECHANICAL OPERATIONS LAB



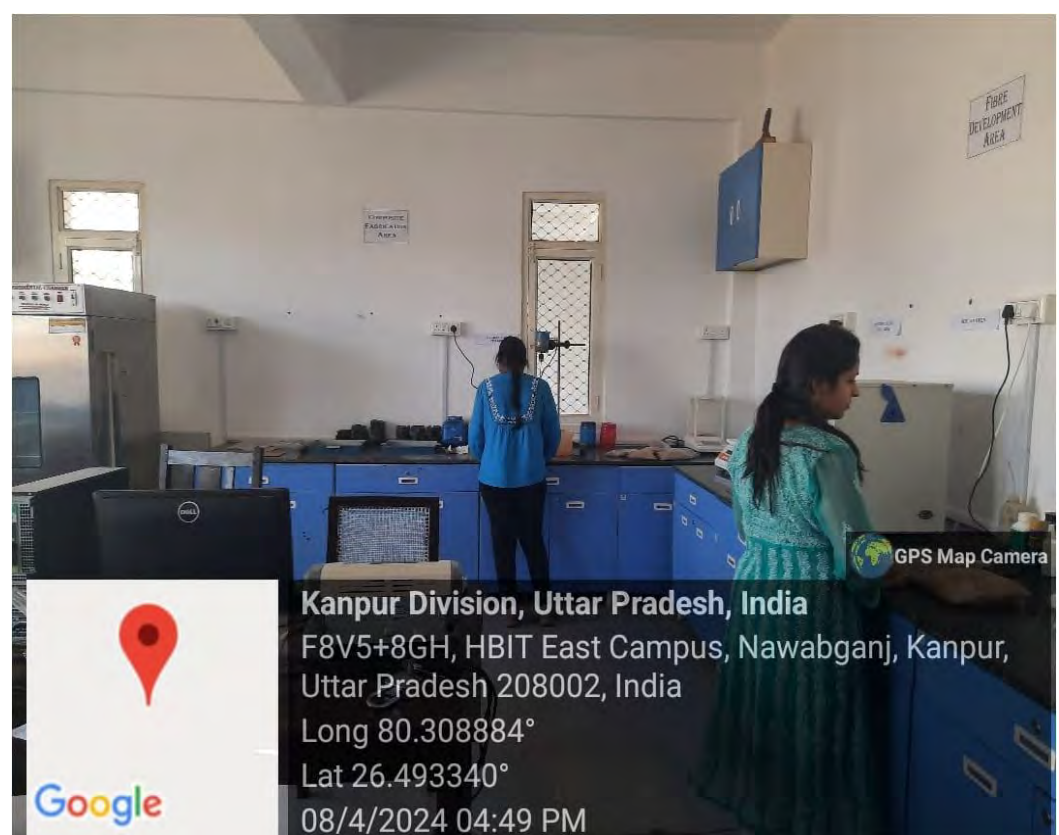
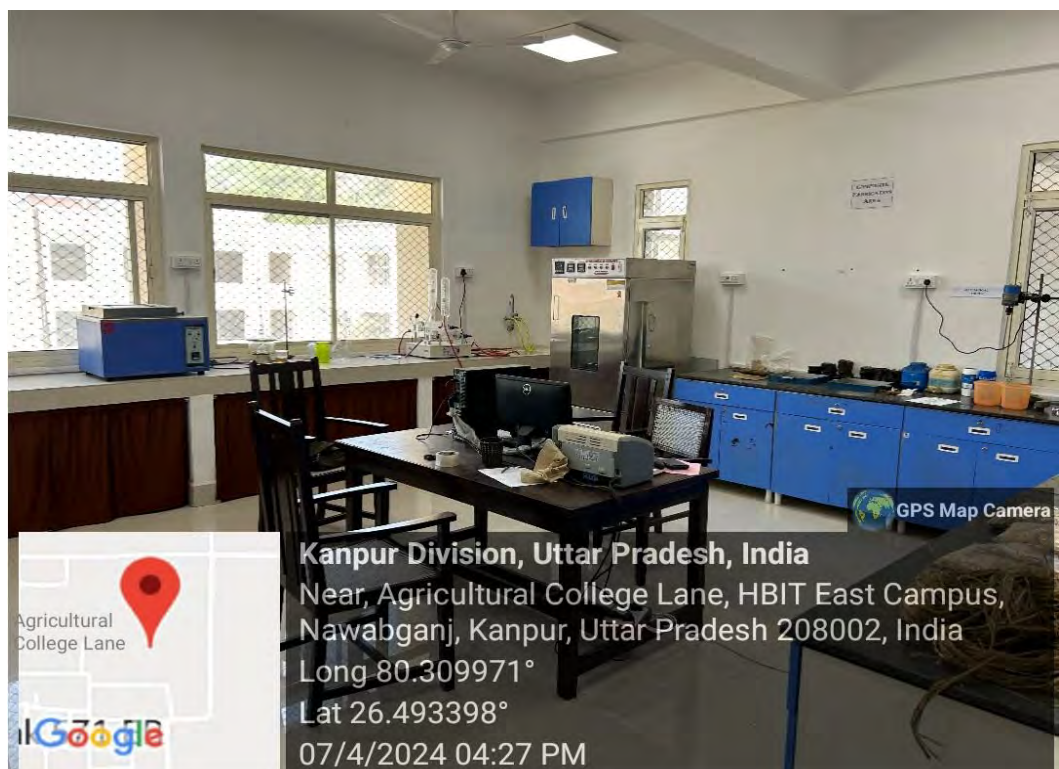
CHEMICAL ENGINEERING FLUID MECHANICS LAB



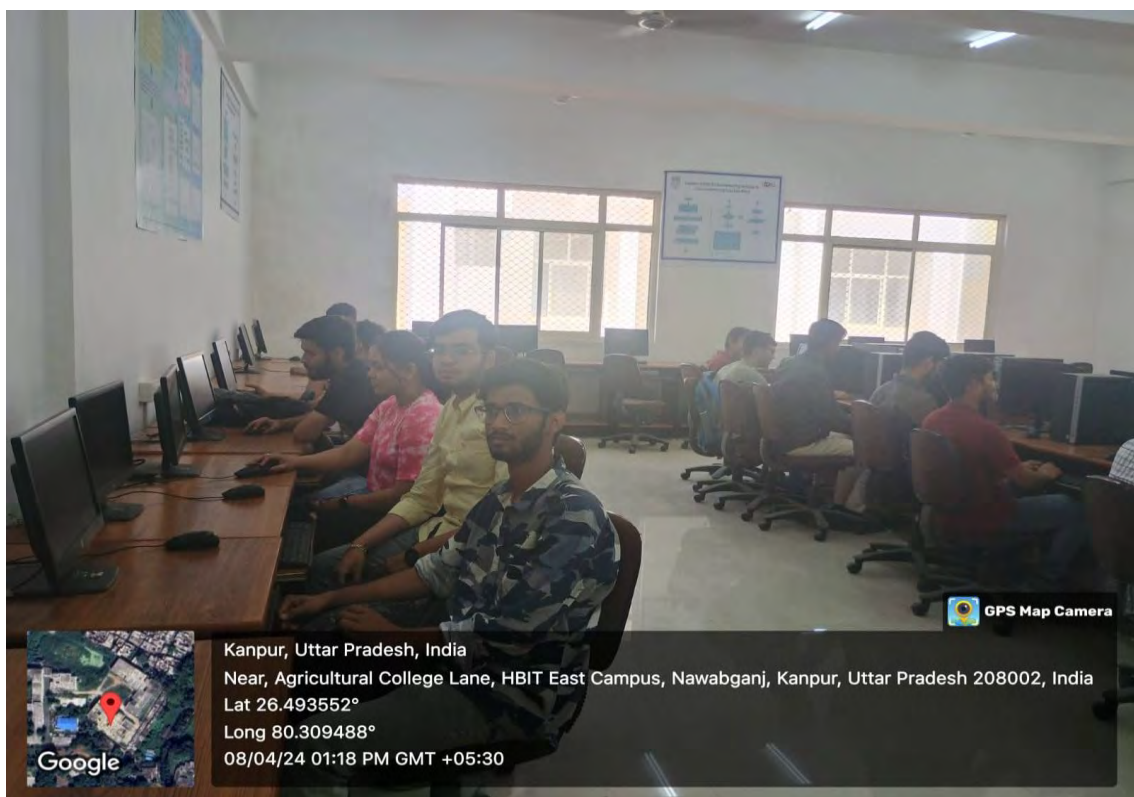
WASTE TO WEALTH LAB



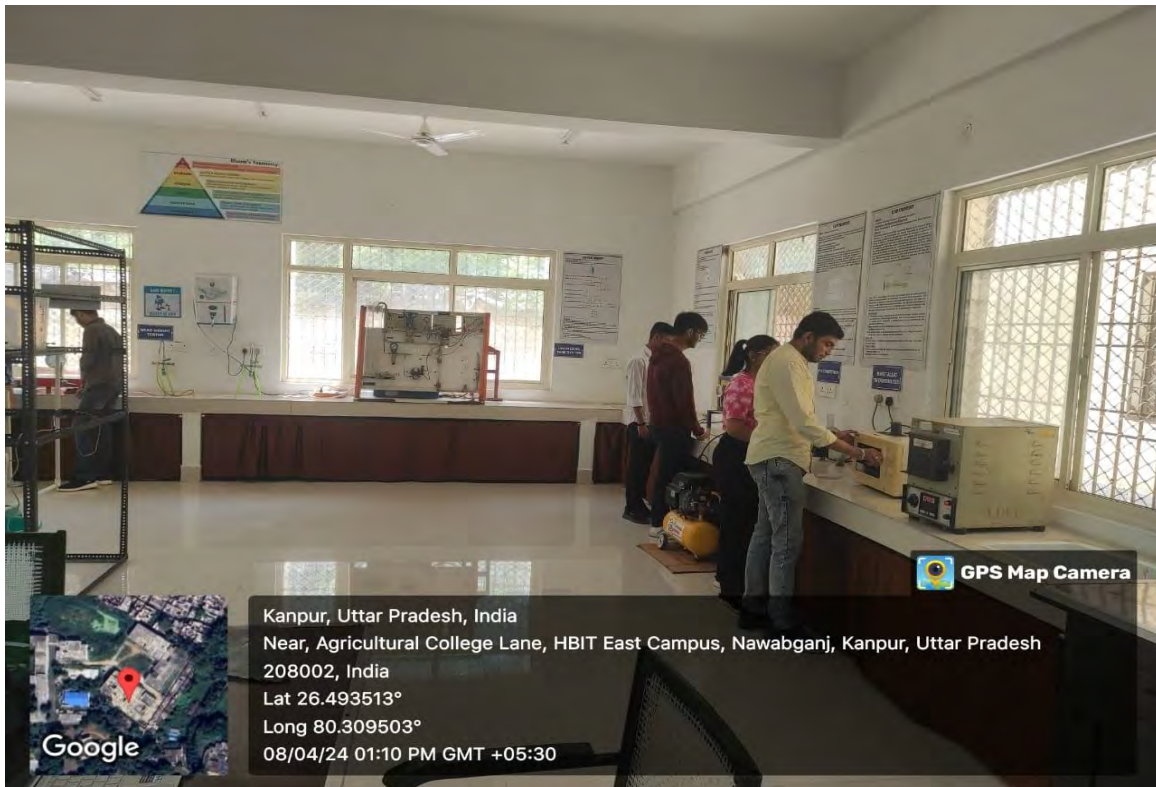
COMPOSITE LAB

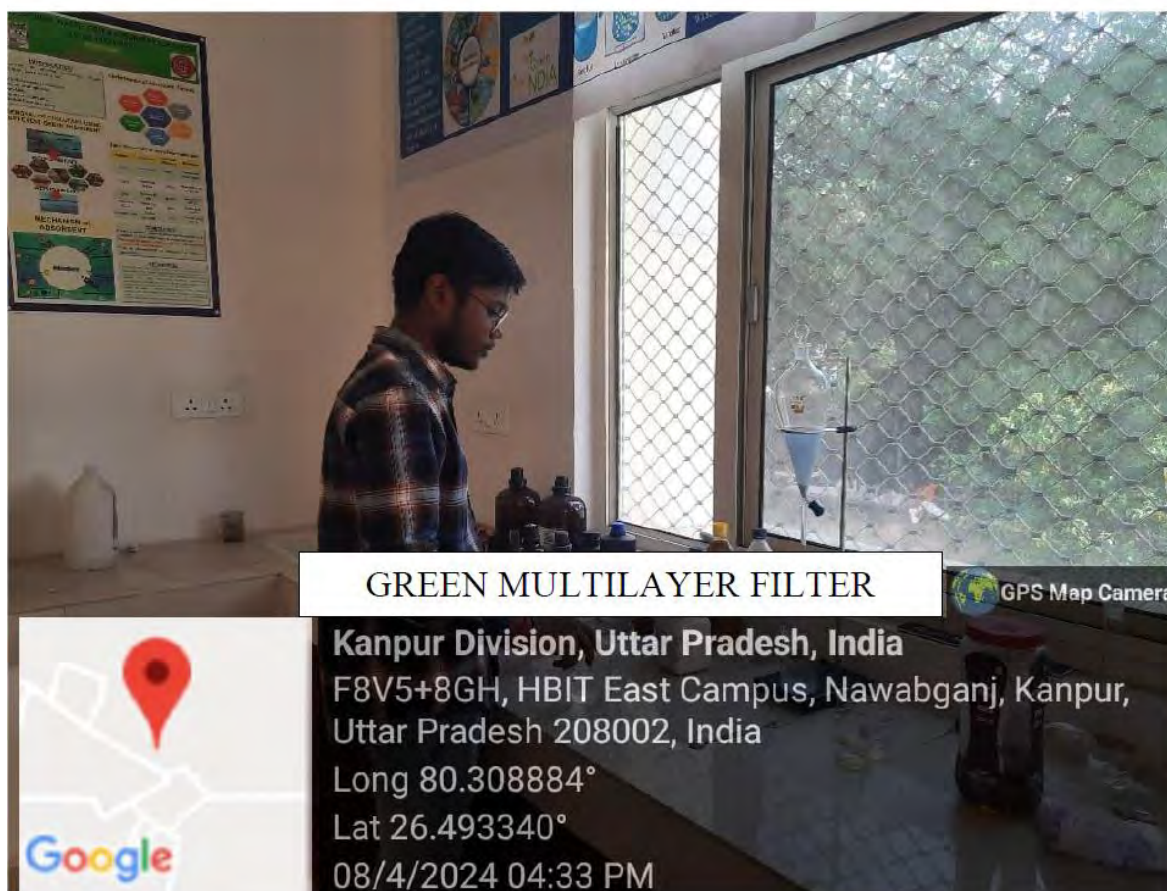


COMPUTER AIDED EQUIPMENT DESIGN LAB

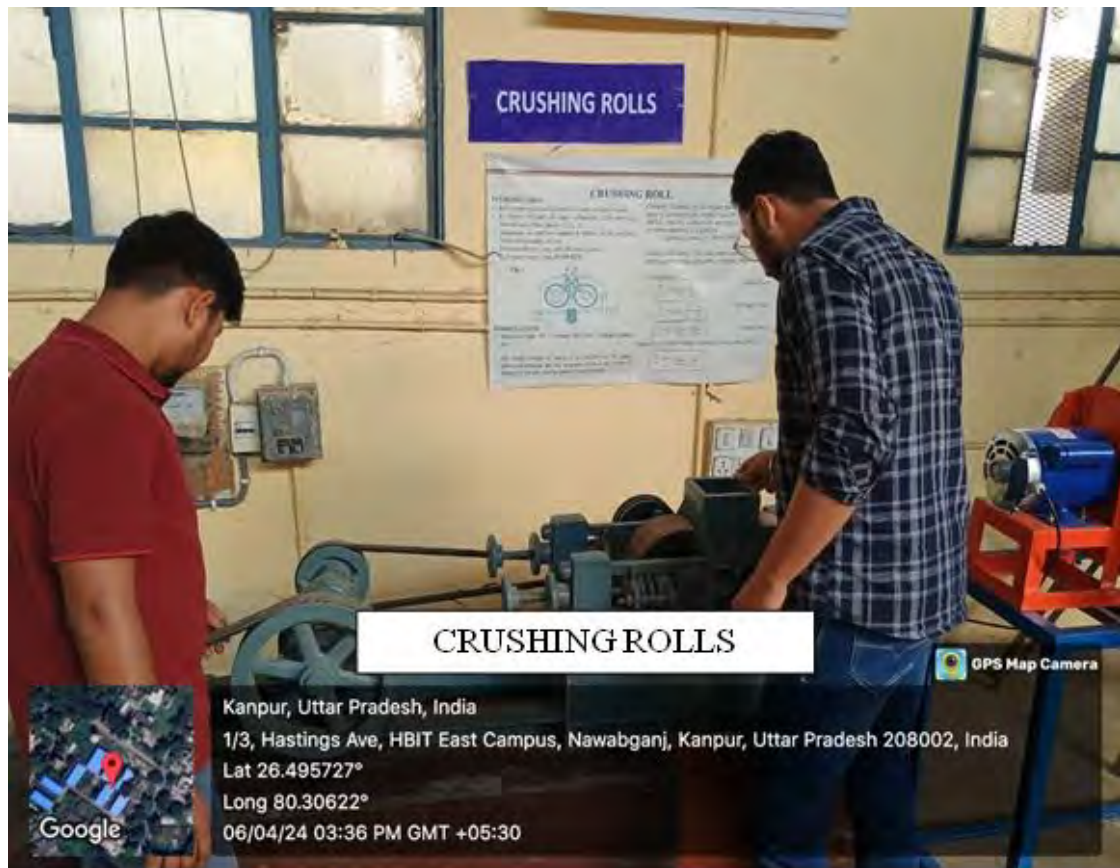


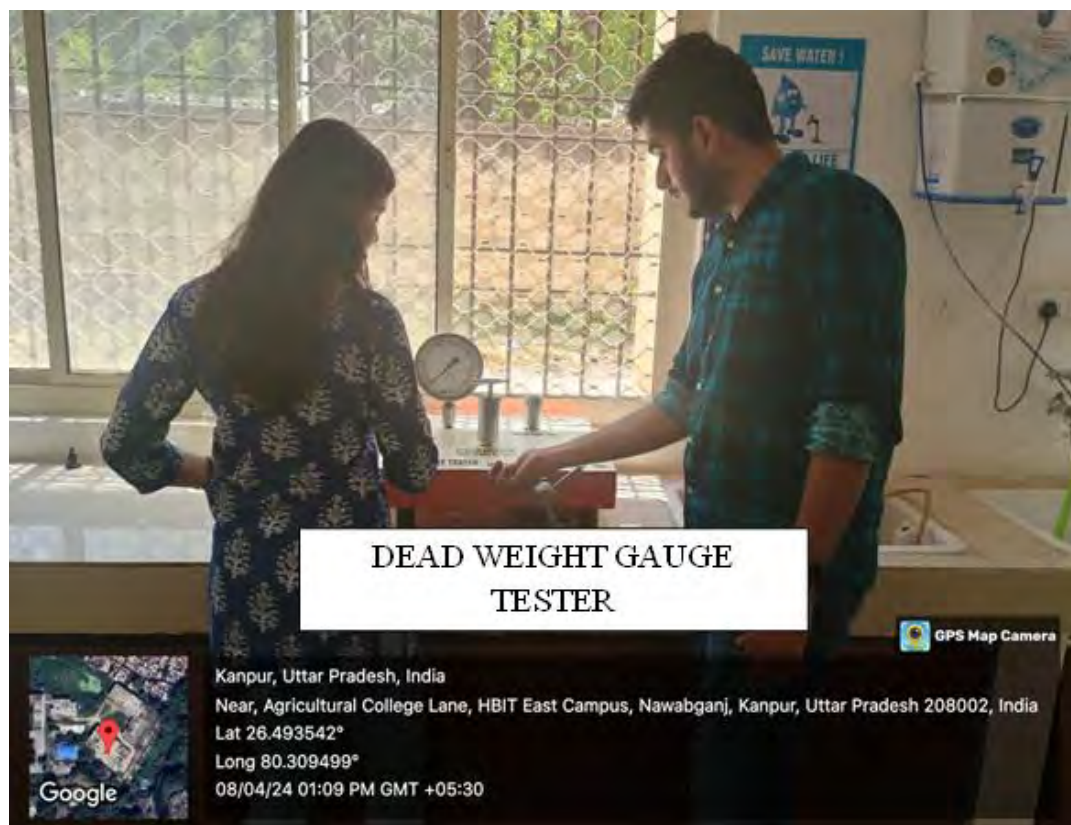
PROCESS CONTROL & INSTRUMENTATION LAB



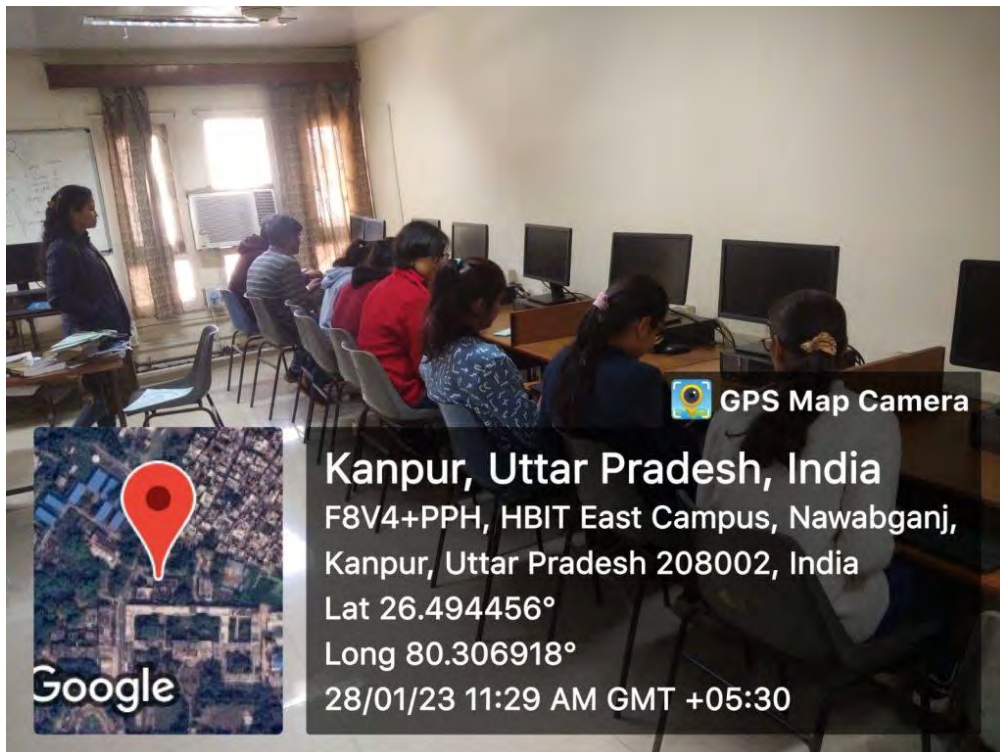




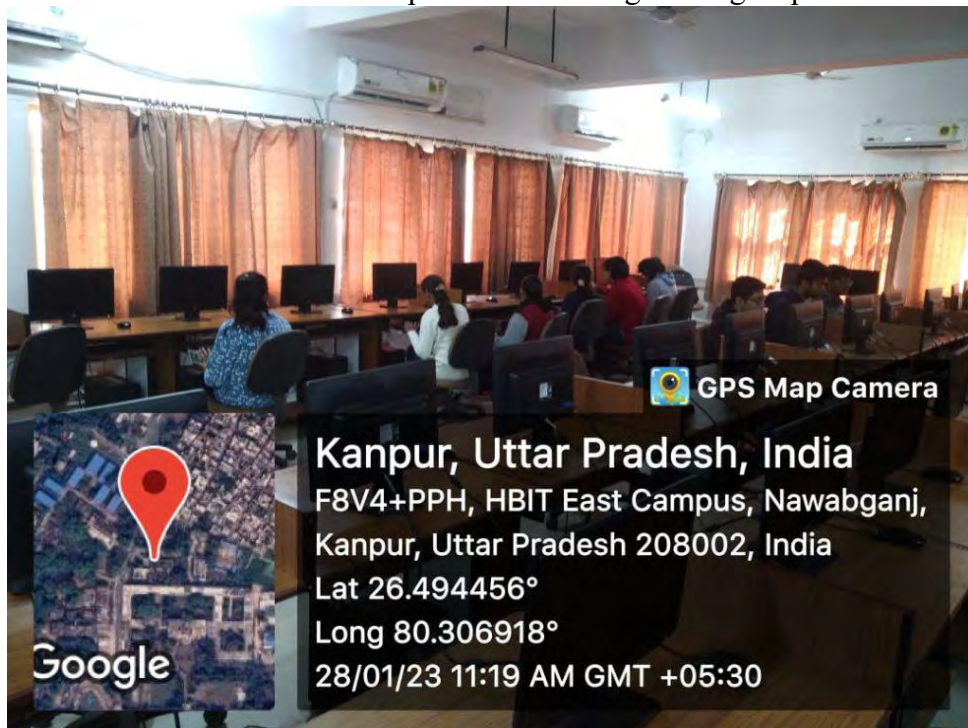








Windows Lab in the Computer Science Engineering Department



Internet Lab in the Computer Science Engineering Department

2. Video/E-content/Virtual Lab/Online classroom

<http://www.decoder.co.in> : A common platform to the students of University to learn new programming languages, discuss queries, coding competitions, develop projects and boost their placement prospects.

<https://hbtu.ac.in/moocs-recording-studio/>



Virtual Class Room/ Project Lab in the Computer Science Engineering Department

3. Simulation

PROCESS MODELLING & SIMULATION LAB



Kanpur, Uttar Pradesh, India
Near, Agricultural College Lane, HBIT East Campus, Nawabganj, Kanpur, Uttar Pradesh 208002, India
Lat 26.493552°
Long 80.309488°
08/04/24 01:18 PM GMT +05:30



In this laboratory, the students are exposed with programming and simulation side of Electronics Engineering. Here, several advanced and updated software including Lab View, MATLAB, Proteus, OptiSim and others are available for helping students in better understanding of concepts of Electronics and Communication Engineering. In this lab, the real time interfacing of equipped with computer may also be made with the help of DAQ Cards. The laboratory is also equipped with several personal computers connected with LAN along with Printing facility. Related Courses: Analog Communication, Digital Communication, VLSI Design, Optical Fiber Communication

4. Outreach activity:



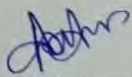
The seminar was presided over by the HOD, Dr. Lalit Kumar Singh of this event. He briefed about the importance of this day and tells us what steps we should take immediately so that we can make our environment healthy. He addressed the audience and honored to “**Environment Friend**” Shri Rajendra Prasad employee of the university and hoped that the same level of enthusiasm and sincerity will be maintained by others towards the a healthy environment in the years to come. DSoCT Prof. Reena Singhal mentioned that the theme of World Environment Day 2023 is to “**solution to plastic pollution**” and she delivered a lecture on “Say no to single-use plastic”. Shri Brajesh Singh gave a speech about how the condition of our environment today is and why we need to be aware, educate and protect. He lauded the efforts of staff to be environmentally friendly. Sri Jitendra Kumar enlightened and motivated to the students that how we can minimize, reuse and recycle of plastic in our daily life.

After this, Students and faculty members were asked to plant a sapling in HBTU campus to create a green corner. Pro Vice-Chancellor Prof Diptee Parmar with Faculty members and Students are planted tree saplings & encourage others to plant trees. On this occasion, Pro Vice-Chancellor added that we all should devote some time from our daily schedule towards nature, and put efforts to preserve our Bio-diversity reserves.

A lot of enthusiasm was seen in the students. The event was conducted successfully with whole hearted participation and awareness about our ancestors the plants.

5. Internship

Sample Certificates of Students who have Undergone Summer Internships Session: 2023-24
from Department of Chemistry

Dr. Ashok Arya Head, Glass & Advanced Materials Division		Tel: +91-22-25595191 E-Mail: aarya@barc.gov.in Fax : +91-22-25505151 Trombay Mumbai 400 085
Government of India Bhabha Atomic Research Centre Glass & Advanced Materials Division		
Ref: BARC/GAMD/Trg.Cert./2024/ <u>P-145866</u>		Aug 01, 2024
<u>CERTIFICATE</u>		
This is to certify that Ms. Arpita Yadav, Master student of Harcourt Butler Technological Institute, Kanpur has undergone practical training at Glass & Advanced Materials Division, Bhabha Atomic Research Centre under the supervision of Dr. Jyoti Prakash for the period from 24.06.2024 to 01.08.2024.		
During the above period, Ms. Arpita Yadav has worked on the project titled "Study of oxygen defects in carbon nanotube for Supercapacitor Application". She has worked on simple ozonolysis/plasma process to introduce oxygen defects/functional groups in CNTs. The functionalize CNT was used as composite electrode for supercapacitor.		
Project Details: This project aimed to investigate the effect of oxygen defects and functional groups on CNTs for supercapacitor electrode applications. Ozonolysis and plasma treatment methods were used to introduce these defects and functional groups. The treatment times were optimized to achieve the highest capacitance in CNT-based supercapacitor electrodes. The project utilized Raman spectroscopy, an electrochemical workstation, heat treatment furnaces, and plasma chemical vapor deposition systems. Additionally, the analysis and plotting of scientific data were performed using Origin software.		
During the period of her training Ms. Arpita Yadav was very sincere, hardworking and inquisitive. Her grasping skills, methodical approach, silent nature of working and devotion for work indicates her potential for pursuing a career in Research and Development.		
Our best wishes to Ms. Arpita Yadav for her future endeavors.		
 (Ashok Arya)		
डॉ. ए के आर्य / Dr. A K Arya अध्यक्ष, काच एवं प्रगत पदार्थ विभाग Head, Glass and Advanced Materials Division भारत सरकार / Government of India भाभा परमाणु अनुसंधान केंद्र Bhabha Atomic Research Centre ट्रॉम्बे, मुंबई / Trombay, Mumbai - 400 085.		



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1921 - 2021



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(B) Participative learning

1. Organization & Participation in conferences/Seminar/Webinar/Expert lectures

Expert Lecture & Interactive session by Mr Shushil Garg on 10 August 2023 On Overview of Oil and Gas



PATRONS

Prof. Samsher,
Hon'ble Vice Chancellor, HBTU, Kanpur
Sri. K. Ram,
Director, IRDT, Kanpur, Uttar Pradesh

TARGET PARTICIPANTS

Faculty of Chemical Engineering and
Chemical Technology Branches

REGISTRATION

CHAIRPERSONS

Prof. Reena Singhal, Dean, SOCT, HBTU, Kanpur
Prof. Ashish Kapoor, HoD, Chemical Engg.

Faculty: Rs. 3,000 /- per head
*TA/DA will not be provided.

ADVISORY COMMITTEE

Prof. Arun Maithani, HoD Paint Technology
Prof. Indira Nigam, HoD Plastic Technology
Prof. Alak Kumar Singh, HoD Food Technology
Dr. Praveen Kumar Yadav, HoD Oil Technology
Dr. Lalit Kumar Singh, HoD Biochemical Engg.
Mr. Sumant Chatterjee, HoD Leather Technology

Last date of Registration: 16th August, 2023

All the registered participants will get the certificates.

COORDINATORS

Dr. S.V.A.R. Sastry, Associate Professor &
Associate Dean, Research & Development, HBTU
Dr. Shravan Kumar, Assistant Professor, HBTU

ADDRESS FOR CORRESPONDENCE

Dr. S.V.A.R. Sastry, Associate Professor
Dr. Shravan Kumar, Assistant Professor
School of Chemical Technology,
HBTU, Kanpur, U.P. Pin-208002
Phone: 7093423964, 7577082588
E-mail: svrasastry@hbtu.ac.in, shravan.k@hbtu.ac.in

ORGANISING COMMITTEE

Prof. S.K. Gupta, HBTU, Kanpur
Prof. Ashvini Sood, HBTU, Kanpur
Prof. Rajesh Katiyar, HBTU, Kanpur
Dr. G.L. Devnani, HBTU, Kanpur
Dr. A.K. Rathore, HBTU, Kanpur
Mr. Jitendra Kumar, HBTU, Kanpur
Dr. Adarsh K. Arya, HBTU, Kanpur
Dr. Dan Bahadur Pal, HBTU, Kanpur
Dr. Pranava Chaudhari, HBTU, Kanpur
Dr. Anjali Awasthi, HBTU, Kanpur
Dr. Bineeta Singh, HBTU, Kanpur
Dr. Zeenat Arif, HBTU, Kanpur



A FIVE DAY FDP

On

"Sustainable Green Chemical Technologies"

21st —25th August, 2023

In Association with

IRDT, Kanpur

&

Dept. of Technical Education,
Govt. of Uttar Pradesh

Organized by:

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

Interactive Session by Mr Gaurav Khattar on 16 September 2023



Session Talk by Mr Hemant, Assistant Manager (R&D) from HPCL on 27 October 2023



 **Indian Institute of Chemical Engineering**
STUDENT CHAPTER
in Association with
Chemical Engineering Association (ChEA)



SESSION TALK 
NEW GENERATION IDEATION CONTEST'23
BY HINDUSTAN PETROLEUM

27 OCTOBER 2023
2:00 PM
EC-1

LIVE SESSION

MORE INFORMATION
Faculty Co-Ordinator
Dr. Pranava Chaudhari
+91 76074 89600


Mr. Hemant Mishra
(Assistant Manager)
(R&D)

“IICHE” organized a captivating sessional talk event on 3rd Nov. 2023 in collaboration with ChEA.

This session talk was coordinated by Pranav Chaudhary sir. The session talk started at 1:30 pm with the warm welcome of event’s guest speaker Dr. Dhananjay Singh sir, HOD Chemical engineering IET Lucknow by Prof G.L. Devnani sir. Dr. Dhananjay Singh sir is a HBTU Alumni of batch 2000. He completed his b.tech from IIT Roorkee and P.hd from IIT Guwahati.

Dr. Dhananjay Singh sir gave presentation on the topic “**Energy and Environmental issues for Sustainable Growth**”. He emphasised on sustainable technology in industries so that it can meet up future demands. The event gathered enthusiastic attendees passionate about sustainable growth. Engaged students, filled with enthusiasm, were attentive throughout the event, absorbing the wisdom shared by our esteemed guest speaker, **Mr. Dhananjay Singh**. Their active participation, marked by valuable questions, added depth to the discussion on Energy and Environmental issues for Sustainable Growth.



Chief Patron

Prof. Samsher, Hon'ble Vice Chancellor, HBTU, Kanpur
Prof. V.K.Srivastav, President, Indian Desalination Association (InDA)

Patron

Dr. Rachna Asthana, Director, AIITH, Kanpur
Dr. Brishiti Mitra, Director, UIET, Kanpur

Chairperson

Dr. G.L. Devnani, Dean, SoCT, HBTU, Kanpur
Dr. Ashish Kapoor, HoD, Chemical Engg., HBTU, Kanpur
Dr. Lalit K. Singh, HoD, Biochemical Engg., HBTU, Kanpur

Organizing Secretary

Dr. S.V.A.R.Sastry, Assoc. Professor, HBTU, Kanpur
Dr. Madhu Agarwal, Hon. Secretary, InDA & Assoc. Professor, MNIT Jaipur

Conveners

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Dr. Anjali Awasthi, Asst. Professor, HBTU, Kanpur

Co-Conveners

Dr. Vinay K Sachan, Assoc. Professor, UIET, Kanpur
Dr. Ashutosh Mishra, HoD, Chemical Engg., AIITH, Kanpur

Advisory Committee

Prof. K. K. Pant, Vice-President, InDA & Director, IIT Roorkee
Prof. J.P. Pandey, VC, AKTU Lucknow
Shri A.K. Adak, Vice-President, InDA
Dr. Madhu Agarwal, Hon. Secretary, InDA
Dr. R.K. Dohare, Joint Secretary, InDA
Dr. Dipaloy Datta, Treasurer, InDA
Dr. Manish Sharma, Jt. Treasurer, InDA
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Mr. N.P. Sukumar, MD, AIPL, Tamil Nadu
Prof. Deepak Srivastava, HBTU Kanpur
Prof. Ajay K. Dalai, University of Saskatchewan, Canada
Prof. Ranil Wickramasinghe, University of Arkansas, USA
Prof. Ramin Farnood, University of Toronto, Canada
Prof. A. B. Pandit, VC, ICT, Mumbai
Dr. Sushant Upadhyaya, Chairperson, InDA North Zone
Dr. V.K. Sangal, Secretary, InDA North Zone
Prof. Vimal Chand Srivastava, IIT Roorkee
Prof. Mihir Kumar Purkait, IIT Guwahati
Mr. Sriram Kulkarni, Director, Techno-chem Group, Mumbai & EC Member, InDA
Mr. Hemish Kapadia, CEO, Neo Nir, Surat & EC Member, InDA
Dr. S. Sridhar, Principal Scientist, IICT, Hyderabad
Prof. Dhananjay Singh, IET, Lucknow
Prof. P.K. Bajpai, Ex. Prof. & Dean (R&D), TIET, Patiala

Organizing Committee

Dr. S.K. Gupta, HBTU, Kanpur	Dr. Ashwini Sood, HBTU, Kanpur
Dr. Rajesh Katiyar, HBTU, Kanpur	Dr. A.K. Rathore, HBTU, Kanpur
Mr. Brajesh Singh, HBTU Kanpur	Mr. Jitendra Kumar, HBTU, Kanpur
Dr. A.K. Arya, HBTU, Kanpur	Dr. Shina Gautam, HBTU, Kanpur
Dr. A.K. Rathore, HBTU, Kanpur	Dr. Arun K Gupta, UIET, Kanpur
Dr. D.B. Pal, HBTU, Kanpur	Dr. Pranava Chaudhari, HBTU, Kanpur
Dr. Bineeta Singh, HBTU, Kanpur	Dr. Zeenat Arif, HBTU, Kanpur
Dr. Rajkamal Kushwaha, HBTU, Kanpur	Ms. R. Agrahari, HBTU, Kanpur
Dr. Priya Pal, IET, Lucknow	Dr. Shashi Bala G, Gov. Polytec., Kanpur

Address for Communication

Dr. S.V.A.R.Sastry,
Associate Professor,
Department of Chemical Engineering,
HBTU, Kanpur
Mob: 7093423964
Email: svrsastry@hbtu.ac.in

Workshop

On

RECENT ADVANCES IN WATER PURIFICATION & WASTE WATER TREATMENT

29th - 30th November, 2023
(Hybrid mode)

Jointly Organized by



Department of Chemical Engineering
Department of Biochemical Engineering
Harcourt Butler Technical University
Kanpur, Uttar Pradesh-208002

&



Indian Desalination Association (InDA)

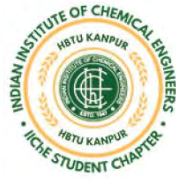
In Association with



UIET Kanpur



AIITH Kanpur



2nd
ANNOUNCEMENT

INTERNATIONAL CONFERENCE

CHEM-TECHNOVA 2024

**“Sustainable Green Chemical Technologies:
Challenges & Opportunities”**

21st - 23rd March, 2024

ORGANIZED BY:

IIChE Student Chapter &
Department of Chemical Engineering,
Department of Biochemical Engineering;
School of Chemical Technology,
Harcourt Butler Technical University Kanpur
Uttar Pradesh-208002



Website: www.hbtu.ac.in





Department of Plastic Technology
School of Chemical Technology

HBTU, Kanpur

100 YEARS
1921 - 2021

invites you to attend an

EXPERT LECTURE
“cum”
ALUMNUS INTERACTION

Topic: “LiFE (Lifestyle for Environment):
Innovation & Traditions for a Sustainable World”.



Advisor, Water & Land
Resources, Drinking Water and
Communication & Mission
Director LiFE, NITI Aayog

1992 Batch of Plastic Technology
Alumnus HBTU, Kanpur

SPEAKER

MR. YUGAL KISHORE JOSHI



20th October, 2023



11:30 am



Radhakrishnan Auditorium, HBTU

Organized by:

Prof. Deepak Srivastava

Prof. Indira Nigam

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

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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 HBTU Kanpur
Prof. K.K. Pant, Director, IIT Roorkee
Prof. A.K. Nagpal, Ex-Director HBTU Kanpur
Prof. Shishir Sinha, Director General, CIPET
Prof. Vimal Katlyar, 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

One Day Workshop

(Hybrid Mode)

on

Basic Concepts and Scientific Writing in LaTeX

11th June 2024

organised by



Department of Mathematics
School of Basic and Applied Sciences
Harcourt Butler Technical University
Kanpur

at

East Campus, Nawabganj,
HBTU Kanpur
208 002

Speaker

Dr. Vishakha Jadaun
PDEU, Gandhinagar

Convenors

Prof. Rekha Bali
Dr. Abhinava Srivastav



HARCOURT BUTLER TECHNICAL UNIVERSITY KANPUR
TRAINING & PLACEMENT CELL

presents



One week
SUMMER TRAINING PROGRAM
on
**SKILL
DEVELOPMENT**
(TECHNICAL & SOFT SKILLS)
FOR STUDENTS

July 26-31, 2024



CHAIRMAN
Prof. Dipteeek Parmar
Pro Vice Chancellor &
Dean PRG, HBTU Kanpur



CONVENOR
Prof. S.K.S. Yadav
Incharge Training & Internship



PATRON
Prof. Samsher
Hon'ble Vice Chancellor
HBTU Kanpur



CONVENOR
Prof. Anita Yadav
Associate Dean PRG



CO-CONVENOR
Prof. Naveen Kumar Gupta
Training & Placement

Experts from:

- ISRO
- HAL Kanpur
- IIT Kanpur
- IIT Bombay

and many more.....

2. Quiz

Quiz as being part of Teacher's assessment conducted for all the students of I-B.Tech. of Engineering and Technology branches.

3. Tutorial

Tutorial is a participative learning approach where a small group of B.Tech and Master students engage in discussions and problem-solving under the guidance of faculties.

(C) Problem-Solving Methodologies:

1. Research/Project Based Learning

Research problem is a research driven open to B.Tech., PG and Ph. D. students. This study will enable students to develop and implement a work by formulating a research problem under faculty guidance. In this course, students are given a research problem on which they work for one semester and possibly results into patents or publications. The course will enable critical thinking abilities in problem solving. This process may include a literature survey, design approach, analysis and conclusion with results. The students will be required to present the body of work in an objective report and demonstration.

During the course, the student will learn how to:

- ✓ Literature Survey
- ✓ Carry out a literature search and write a critical state-of-art review
- ✓ Select suitable research methods and integrate them within a research methodology
- ✓ Carry out the research processes
- ✓ Analyze research results
- ✓ Write-up the research work as a research manuscript, thesis etc.