



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)

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**Report of Centre for Continuing Education Programme for conducting various FDP/Refresher course/webinar/seminar etc.**

HBTU Kanpur is a residential Technical University with a great legacy, tradition, and glorious past which propelled it to one of the top-most institutions in northern India. It has a strong alumni base spread across the globe who are carrying forward the legacy, culture, and good work of this great Institution in their respective areas of influence. University has 04 well-established schools i. e. School of Engineering, the School of Chemical Technology, the School of Basic and Applied Science, and the School of Humanities and Social Sciences and 16 departments within these schools. At the Department level, Faculty members are responsible to conduct various co-curricular activities/organizing workshops/conferences/ faculty development courses (FDP) etc. in order to increase the research and maintain the quality of education. As such university does not have any academic staff college, but has **Centre for Continuing Education Programme** for the purpose of providing certificate courses, organizing various FDP/Refresher course/webinar/seminar to strengthen and update quality of education and knowledge incubation. As mentioned the report of few events conducted by various schools under the supervision of **Centre for Continuing Education Programme** is given below

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**Sample report of the Event-1**

**A Report on National Conference on Newer Surfactants for Soaps & Detergents held during April 15-16, 2022 at HBTU, Kanpur**

A National Conference on "Newer Surfactants for Soaps & Detergents" was organized by Department of Oil Technology, HBTU School of Chemical Technology Jointly with Oil Technologist's Association of India, (CZ) during 15-16 April 2022 at Radha krishnan Auditorium H.B.T.U., Kanpur. The conference had six technical sessions in which in depth deliberations on synthesis and applications of newer surfactants was discussed. The conference witnessed participation of experts from renowned industries like Novozymes, Bangalore, Clean

Future Unilever R&D, BIS, New Delhi, ITC, Bangalore, BASF, Mumbai, IHPCA/Technithon Technologies, Mumbai, K Tech (India) Mumbai etc. The Key Note lecture was delivered by Mr. Sanjai Trivedi, Founder Director, IHPCA on Surfactant and Specialties- New Technology and Developments. The successive technical sessions had invited talks on the topics: Green Surfactants, Oleochemicals; New Products in Market and Innovations, Sustainability, New Technologies and Formula Innovations, Creating Zero Wastes Opportunities for Home and Personal Care Consumers, New Builders and Performance Additives and Innovation in Personal Care market. The conference had technical paper presentations in form of Oral and Poster from the young researchers. The conference concluded with panel discussion in which deliberations took place on Innovation & Cost Effectiveness- A way towards “Technology Adoption and Greening the Surfactant Business”.

**100 YEARS**  
1921-2021

**Souvenir**

**OITA 79 YEARS**

**Surfact Green**

**National Conference**  
on  
"Newer Surfactants for Soaps & Detergents"  
Organized by  
Department of Oil Technology, School of Chemical Technology  
Harcourt Butler Technical University, Kanpur  
Jointly with  
Oil Technologists' Association of India- Central Zone  
15-16 April, 2022  
Venue:  
Radhakrishnan Auditorium, (University Auditorium)  
HBTU, Kanpur-208002 India

The Conference had 60 registrations for participation as delegates from various parts of the country besides industries from Kanpur, Lucknow, Agra and Jhansi alongwith 140 student participants including the students of H.B.T.U, Kanpur, A.I.T.H., Kanpur and nearby institutions.

## Sample report of the Event-2

**PATRON**  
Prof. N. B. Singh  
Hon'ble Vice-Chancellor  
HBTU, Kanpur

**CHAIRMAN**  
Prof. Deepak Srivastava  
Dean, School of Chemical Technology  
HBTU, Kanpur

**CO-CHAIRMAN**  
Dr. Karunakar Singh  
Professor, Department of Food Technology  
HBTU, Kanpur  
Prof. Alak Kumar Singh  
Head, Department of Food Technology  
HBTU, Kanpur

**COORDINATOR, TEQIP-III**  
Prof. Raghuraj Singh  
Head, Department of Computer Science & Engineering  
HBTU, Kanpur

**CONVENER**  
Dr. Vivek Kumar  
Assistant Professor, Department of Food Technology  
HBTU, Kanpur

**ORGANIZING SECRETARIES**  
Mr. Anil Kumar, Assistant Professor  
Mr. Ashwani Kumar, Assistant Professor  
Mr. Sayyad Abdul, Assistant Professor  
Mr. Ajit Kumar Singh, Assistant Professor  
Mr. Alchay Kumar Singh, Research Assistant  
Mr. Soumya Rathore, Assistant Professor

**ORGANIZING COMMITTEE MEMBERS**  
Ms. Rishika Tewari, Research Scholar  
Ms. Arunima Singh, Research Scholar

**HBTU Kanpur**  
Harcourt Butler Technical University

**TEQIP III**

**Two Days National Workshop**  
on  
**Rapid Detection of Food Adulteration**

in association with  
TEQIP-III, World Bank Project  
**September 30 - October 1, 2019**

Organized by  
Department of Food Technology  
Harcourt Butler Technical University  
Kanpur

**Venue**  
Seminar Hall  
Department of Food Technology  
Harcourt Butler Technical University  
Kanpur-208002

For Registration, visit on: [https://docs.google.com/forms/d/e/1FAIpQLS7fcNOMDYsYmRWZoTalsO\\_8iD6\\_P4Y051edSRPH11CH7A-cvsnform](https://docs.google.com/forms/d/e/1FAIpQLS7fcNOMDYsYmRWZoTalsO_8iD6_P4Y051edSRPH11CH7A-cvsnform)

### TEQIP - III Sponsored Two Days National Workshop on Rapid Detection of Food Adulteration (September 30 – October 1, 2019) Programme Report

A National Workshop on “Rapid Detection of Food Adulteration” was organized successfully at Department of Food Technology, Harcourt Butler Technical University, Kanpur with participation of different stakeholders. This workshop was a two days programme, during September 30 – October 1, 2019 and sponsored by TEQIP-III under the World Bank. The workshop has different technical sessions with diverse themes of rapid detection of food adulteration along with hands-on training will be delivered by eminent speakers from different food safety authority and regulatory body like FSSAI, FDA and trained experts of practicing food safety management system in the industry to provide real exposure of detection of adulterants in food. The programme was attended by 100 participants from 17 various nationwide institutes, organizations and universities of IIT Delhi, Namaste India, The Akshayapatra Foundation, MRSPTU, Bathinda, CSJM University Kanpur, University of Allahabad, SHUATS Allahabad, Amity University, Jaipur, Dayalbagh Educational Institute, Agra, Pushpanjali Hospitals & Research Centre, Agra, KGMC Lucknow, Bundelkhand University, Jhansi, NIFTEM Haryana, BBAU Amethi, BBAU Lucknow, More Retail Limited, DBS College Kanpur.

Prof. N. B. Singh, Hon'ble Vice Chancellor was the chief guest on occasion along with Guest of Honour and eminent speaker of first technical session, Mr. Amrendra Mahamuni, Technical

Director of Samarth Technologies, Pune, Prof. Karunakar Singh, Pro-Vice Chancellor, Prof. Manoj Kumar Shukla, Registrar, Prof. Raghuraj Singh, Coordinator, TEQIP-III, Dr. Deepak Srivastava, Dean, School of Chemical Technology, Dr. Alak Kumar Singh, Head of Department, Department of Food Technology and Dr. Vivek Kumar, Assistant Professor and Convener of Workshop were present as distinguished guest during the inauguration ceremony.

In the inauguration ceremony of workshop, Hon'ble Vice Chancellor, Prof. N. B. Singh addressed the session and focused on significance of food adulteration and need of food safety measures. Prof. Manoj Shukla, Registrar, HBTU Kanpur addressed the session and discussed the active measures needed to address the adulteration of foods to counter adulterants like melamine and other toxic substances. Prof. Raghuraj Singh, Coordinator, TEQIP-III, addressed the session and expressed his concern that there is a need of hour to focus on such topics to address the food safety and detection techniques to inhibit the malpractice of food adulteration. Mr. Amrendra Mahamuni, Technical Director of Samarth Technologies, Pune and eminent food technologist acknowledged by food authority and regulatory body delivered the lecture on "Food Safety Hazards" and discussed the practices need to be adopted for food safety. He also insisted that there is an urgent need of spreading awareness to consumers and providing the measures to counter the adulteration in food items. , Shri Sanjay Kumar Singh, Chief Food Safety Officer, Kanpur Nagar addressed the participants and delivered the lecture on food adulteration and related policies to counter this problem to enhance food safety in society.

Mr. T. Ashrith Kumar, Head Business Excellence of Impelpro SCM Solutions discussed the significance of new standards with the focus on HARCP being adopted by food processing industries in place of Hazard Analysis Critical Control Points (HACCP). Hands-on training session on rapid detection of food adulteration was conducted to aware the participants for detection of adulterants at domestic level. Dr. A. Madhavan, Director, Center for Quality & Food Safety, New Delhi addressed the participants and delivered a lecture on "Food Safety Regulations on Edible Oils & Fats" to underline the aspects of food safety in current scenario. During the function, participants of oral and poster session were rewarded and appreciated to participate in such event. Further, Chief Guest, Prof. Karunakar Singh, Pro-Vice Chancellor addressed the participants and expressed his experience to participants related to the significance of food adulteration in food industry. Dr. Vivek Kumar, Assistant Professor and Convener of Workshop highlighted the achievements of the workshop and delivered vote of thanks. Considering the success of workshop and overwhelming response of 100 participants from 17 various nationwide institutes, Dr. Kumar expressed his concern to come with such events in future for the welfare of students, faculty and society. The two-days workshop equipped participants with the skills to create a vigorous learning ambience on detection of food adulteration and practicing food safety.

### **Sample report of the Event-3**

#### **About the Program : One Day Seminar on "Design and Analysis of Electronic Systems", 13<sup>th</sup> August, 2021**

The main focus of the program was targeted to

- Compute the **Critical path** with the longest computation time among all paths that contain zero delays

- **Pipelining** to increase the clock speed or sample speed
- **Parallel Processing** to convert a (SISO) system to (MIMO) system
- **Retiming** to change the locations of delay elements i.e. to increase the clock rate of a circuit by reducing the computation time of the critical path.
- **Unfolding** to create a new program describing more than one iteration of the original program.
- **Folding** that is used to reduce the number of hardware functional units (FUs) by a factor of N at the expense of increasing computation time by a factor of N



## Harcourt Butler Technical University, Kanpur

Cordially invites you to the seminar  
on

### “Design and Analysis of Electronic Systems”

13<sup>th</sup> Aug. 2021

Conducted as part of the Centenary Year Celebrations of HBTU Kanpur

Organized by  
Department of Electronics Engineering, HBTU Kanpur,  
IETE Student Forum & IEEE Student Branch



**Patron**  
Prof. Samsher  
Hon'ble Vice chancellor  
H.B.T.U. Kanpur



**Convenor**  
Prof. Krishna Raj  
HoD, Dept. of Electronics Engg.  
H.B.T.U. Kanpur

Link: <https://meet.google.com/tvz-ewdt-byd>

#### Speakers:

Prof. Krishna Raj	Dr. Rajani Bisht	Mr. Dharmendra Kr. Singh	Dr. Trupti Rajan Lenka	Dr. Suman Kr. Mitra
HoD, Dept. of Electronics Engg	Assoc. Prof., ETD, HBTU, Kanpur	Asst. Prof. (NPIU), ETD, HBTU	Asst. Prof., ECE, NIT Silchar	Asst. Prof. (NPIU), ETD, HBTU
<b>Topic:</b> Design & Analysis of DSP algorithms	<b>Topic:</b> Overview of RF Circuits and Design	<b>Topic:</b> Role of Electronics in Robotics & Automation	<b>Topic:</b> HEMT for High Power Electronics and RF Applications	<b>Topic:</b> Design & Analysis process of Semiconductor Devices
<b>Time:</b> 11AM – 12 PM	<b>Time:</b> 12.05PM – 1.05 PM	<b>Time:</b> 1.10PM – 2.10 PM	<b>Time:</b> 3PM – 4 PM	<b>Time:</b> 4PM – 5 PM

**NOTE: There is No Registration Fee**

The coordinator of the program was Dr. Krishna Raj, Professor, Department of Electronics Engineering, Harcourt Butler Technical University Kanpur, Uttar Pradesh, India. The Speakers of the program were

1. Dr. Krishna Raj, (Member-IEEE), Professor Department of Electronics Engineering, Harcourt Butler Technical University Kanpur, Uttar Pradesh, India
2. Dr. TruptiRajanLenka, (Senior Member-IEEE), Assistant Professor (Grade-I) at Department of Electronics & Communication Engineering, NIT Silchar, Assam, India
3. Dr. RajaniBisht, (Member-IEEE) Associate Professor at Department of Electronics Engineering, Harcourt Butler Technical University Kanpur, Uttar Pradesh, India

4. Mr. Dharmendra Kr. Singh, (Member-IEEE), Assistant Professor (NPIU faculty) at Department of Electronics Engineering, Harcourt Butler Technical University Kanpur, Uttar Pradesh, India
5. Dr. Suman Kumar Mitra, (Member-IEEE), Assistant Professor (NPIU faculty) at Department of Electronics Engineering, Harcourt Butler Technical University Kanpur, Uttar Pradesh, India

258 participants (Faculty Participants: 12, Research Scholar Participants: 09, PG Participants: 16, UG Participants: 80) from 16 Universities/Institute (Dr. A. P. J. Abdul Kalam University, MNIT Jaipur, Harcourt Butler Technical University, Kanpur, Madan Mohan Malaviya University of Technology, Gorakhpur, University Institute of Engineering & Technology, C.S.J.M. University, Kanpur, Dayalbagh Educational Institute D.E.I. etc) attended the program

This program was totally free of cost i.e. with zero financial burden.

#### **Sample report of the Event-4**

##### **Report on One Day Webinar Organized on 17<sup>th</sup> Nov., 2021**

Department of Chemistry, HBTU Kanpur organized one day webinar on “Recent Advances in Chemical Sciences” on 17<sup>th</sup> November 2021 on the occasion of the Centenary celebration. Three speakers, **Prof. V. P. Sharma** Chief Scientist, CSIR-Institute of Toxicology Research, Lucknow, **Dr. Karuna Shanker** Scientist-C, CSIR-CIMAP, Lucknow and **Dr. Raghavaiah Pallepogu**, Department of Chemistry, School of Chemical Sciences, Central University of Karnataka, Kalaburagi, Karnataka delivered the lectures. Firstly, Prof. V. P. Sharma provided insight on “Sustainability innovations and quality management with special relevance to polymeric products”. After that, Dr. Karuna Shanker discussed the re-emergence of phytomedicine for drug discovery. Later, Dr. Raghavaiah Pallepogu elaborated on chemical crystallography and its applications in investigating novel multi-domain crystalline assemblies. The students, research scholars, academicians and faculty members attended the webinar.

**One Day Webinar  
on  
“Recent Advances in Chemical Sciences”**

**November 17, 2021**

*Organized by*



Chemistry Department  
School of Basic and Applied Sciences  
Harcourt Butler Technical University  
Kanpur-208002



All participants are required to fill the Google form via following link:  
<https://forms.gle/vztYQ85ddeST4HD67>

Venue: Online mode via Google Meet  
<https://meet.google.com/xkv-wxwq-bqh>

**PATRON**

Prof. Samsher  
Hon'ble Vice Chancellor  
HBTU, Kanpur

**CHAIRMAN**

Prof. Ram Autar  
Dean, School of Basic and Applied Sciences  
HBTU, Kanpur

**CONVENER**

Dr. C. L. Gehlot  
Head, Chemistry Department  
HBTU, Kanpur

**COORDINATOR**

Dr. Sadhna Puri

**ORGANIZING COMMITTEE MEMBERS**

Dr. Balendu Singh  
Dr. P. S. Niranjana  
Dr. Minakshi Garg

## Sample report of the Event-5

### Report on Expert Lecture Organized on 13<sup>th</sup> Nov. 2021

Department of Chemistry, HBTU Kanpur, organized an expert lecture on “Synthesis of Biologically Relevant Heterocycles from Basic Chemicals” on 13<sup>th</sup> November 2021 during the Centenary celebration. The lecture was delivered by Dr. China Raju, Senior Principle Scientist, IICT Hyderabad. Students, Research Scholars, Academicians and Faculty members attended the lecture. The lecture covered various methodologies related to the synthesis of biologically relevant heterocyclic compounds. Heterocyclic moieties are found to occur abundantly within the frameworks of bioactive natural and synthetic lead molecules, drug candidates either marketed or under clinical trials, agrochemicals, cosmetics and dyes, and many other application-oriented materials. Our society is highly dependent on synthetic heterocycles as the supply of natural heterocyclic compounds is not sufficient enough. Therefore this lecture provided insight into the various routes for the synthesis of biologically relevant heterocycles.



**Expert Lecture  
on  
“Synthesis of Biologically Relevant  
Heterocycles from Basic Chemicals”**

**13<sup>th</sup> Nov., 2021**

*Organized by*



**Chemistry Department  
School of Basic and Applied Sciences  
Harcourt Butler Technical University  
Kanpur-208002**



**Registration Link:**

<https://forms.gle/gmWrSE6p5xYsqJCu8>

**Venue: Online mode via Google Meet Link**

<https://meet.google.com/xkv-wxwq-bqh>

**Time: 11:00 AM**

**TARGET AUDIENCE:**

Students, Research Scholars, Academicians, Faculty members / Teachers of Engineering Colleges, Degree Colleges and Poly-techniques.

**RESOURCE PERSON**

**Dr. B. China Raju**  
Senior Principal Scientist, IICT, Hyderabad

**For Further Information, Please Contact**

**Dr. C. L. Gehlot (HOD)**  
E-mail: [hodche@hbtu.ac.in](mailto:hodche@hbtu.ac.in)  
Phone: +917392898257, 8318999673

**ABOUT HBTU**

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 with Dr. E. R. Watson as its first Principal. 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 3.5 kilometers apart. The University provides a congenial environment for the holistic growth and all-round development of the students such that they become globally acceptable personalities with excellent communication skills, proper attitudes, aptitudes, problem solving capabilities and to work as a team.

**ABOUT THE DEPARTMENT**

Department of Chemistry is one of the oldest Department of this University which is running since inception. The department has formulated a dynamic and relevant curriculum for UG program being run in the University and possesses an excellent infrastructure. The basic aim of this Department is to introduce new combination of theoretical studies, technologies in industrial applications and research oriented activities. To carry out research in cutting edge areas both basic and applied nature at par with international standards. The Ph.D. students are educated and trained to become world class scientists. The department is globally known and recognized for its outstanding research in polymer science, solar energy conversion and storage, chemical kinetics, organic synthesis, water treatment, environmental chemistry and spectroscopy.

The department imparts education in physical, organic, inorganic, analytical and industrial Chemistry at UG and Ph.D. level. The department has completed several research programs/schemes sponsored by the national funding agencies like UGC, CSIR, DST, ICAR, UPST, AICTE and INSA etc. The qualified and dedicated faculty of this department have written several books on the various fields of Chemistry and published good number of research papers in National and International (around 400) journals of repute.

## Sample report of the Event-6

### Report of the event

Department of Paint Technology, HBTU Kanpur, organized an expert lecture on “**Theoretical aspects of Powder Coatings**” on 18<sup>th</sup> September 2021. Lectures delivered by Dr. Pramod Kumar, Visiting Professor in Dept. of Paint Technology, HBTU, Kanpur. It was focussed on need of using solvent less coating, composition of powder coatings, raw materials used, techniques of application of powder coatings and film performance of powder coatings. Prof. also talked about the advantages of using powder coatings as well as limitations of powder

coatings. Also, Prof. discussed about various types of Thermoplastic and Thermosetting Powder coatings and their applications as well as various parameters to control properties of powder coatings and second talk was on **Practical aspects of Powder Coatings** delivered by Mr. Kuldeep Verma, Director, Sai Consultancy, Faridabad. His Presentation was about various aspects of production and application of powder coating. He also discussed about the formulation of various types of powder coatings, defects associated with powder coatings, as well as about testing of powder coatings. Field of Powder Coating is contemporary and very relevant in present times. Demand of Powder Coatings is increasing due to ease in application as well economy in cost of application, energy consumption and absence of emission of solvent vapours, harmful to environment. Use of Powder Coatings is going to increase due to emphasis on clean and green environment in near future. We had very good response to this webinar.

The poster features a central white circle with a colorful brushstroke background. At the top left is the HBTU Kanpur logo, and at the top right is the PACT logo. The text is centered within the white circle. A QR code is located below the registration link. The 'SPEAKERS' section is enclosed in a speech bubble shape. The date and time are shown with a calendar icon. Social media icons and the website URL are at the bottom.

**100 YEARS**  
1921-2021

**ONE DAY NATIONAL WEBINAR  
ON  
THEORETICAL AND  
PRACTICAL ASPECTS OF  
POWDER COATINGS**

ORGANIZED BY  
**DEPARTMENT OF PAINT TECHNOLOGY, HBTU KANPUR**

IN ASSOCIATION WITH  
**PAINT AND COATING TECHNOLOGISTS' ASSOCIATION**  
(As a part of Centenary Year Celebration)

*Environmental pressure to reduce, or to eliminate, the use of solvents in Paints has assisted in development of several alternative technologies. Powder Coatings represents one of the fast growing alternative for the industrial stoving paint market. This Webinar is designed to provide an overview of the theoretical & practical aspects of Powder Coatings.*

Scan this QR code or click on the following link for FREE registration  
<https://forms.gle/2FcsGuphJWYVB9cQA>

**SPEAKERS**

- **Dr. Pramod Kumar**  
Visiting Professor, Dept. Of Paint Technology,  
HBTU Kanpur
- **Er. Kuldeep Verma**  
B.Tech (Paint Technology), PGDBM  
Sai Consultancy, Faridabad

**Target Audience:**  
Students, Research Scholars,  
Faculty Members, Industry  
personnels related to Paint,  
Polymer & Chemical  
Technology.

**18th September 2021** | **11.00 A.M onwards**

Through Google Meet Platform

/pacthbtu  
[www.pactind.org](http://www.pactind.org)