

Achievements of Department of Oil Technology

(A) Workshop/Conference/FDP/Seminar organized/participated by the Department of Oil Technology

Name of the workshop/ seminar	Date From – To
National Conference on on “Newer Surfactants for Soaps & Detergents”	April 15-16, 2022
Workshop on HPLC and its Applications in Oils & Fats Analysis by Dr. S. K. Raza, Mr. Bhusan Dole, Dr. Balakrishna, Dr. SammaiahArukali, Ms. Rita Singh from M/s Fare Labs Pvt. Ltd.	28-Oct-21
Workshop on Gas Chromatography & its applications Applications in Oils & Fats Analysis by Dr. S. K. Raza, Mr. A.V.S.P. Prasad, Dr. Balakrishna, Dr. SammaiahArukali, Ms. Rita Singh from M/s Fare Labs Pvt. Ltd.	13-Oct-21
Workshop on Tribology basics and their real life applications Dr.Kartik Pondicherry and Mr. MayankVarshney from M/s Anton Par India Pvt. Ltd.	3-Sep-21
Completed MHRD sponsored TEQIP assisted course on " Sustainable Energy Technologies: Synthesis of Alternative Fuels, Characterization and Molecular Simulations" organized by IIT Roorkee	Dec 07- 11, 2020
Attended Online Webinar on MATLAB for AI, Machine Learning and Deep Learning organized by Department of Computer Science and Engineering, HBTU, Kanpur sponsored by TEQIP-III	30-Apr-20
Attended Online National Webinar on Unlocking the Lockdown through E- Examination Organized by I.E.T., RML Awadh University sponsored by TEQIP-III	20-Apr-20
Attended Online National Webinar on Virtual Labs Organized by I.E.T., RML Awadh University sponsored by TEQIP-III	16-Apr-20
Attended Online National Seminar on Significant Role of E Education Through Social Distancing during Lockdown of COVID-19 Pandemic Organized by I.E.T., RML Awadh University sponsored by TEQIP-III	April 8-9, 2020
Faculty Development Program on “Advancements in Material Characterization Techniques” organized by Department of Plastic Technology at HBTU, Kanpur sponsored by TEQIP-III	Dec 16-21, 2019
Workshop on “ Digital Intervention for Accreditation and Enhancement of Knowledge, Skill & Employability” organized at SPIU, Lucknow	18-Oct-19
National Conference on Process Audit in Oilseeds & Oil Processing Industries at H.B.T.U., Kanpur sponsored by TEQIP-III	Sept 28-29, 2019
Twinning workshop : Establish Mechanism for Enabling Peer Learning and Knowledge Sharing organized at SPIU, Lucknow	May 30-31, 2019
International Conference on Value Addition in oilseeds, oils & Derivatives through innovative technologies	Dec 22-23, 2018

Faculty Development Program on “Methods and Techniques for Enhanced Teaching and Learning in Technical Education” organized by Department of Chemical Engineering, HBTU, Kanpur.	Oct 15-20, 2018
Workshop on “ Advanced Analytical Techniques” at HBTU, Kanpur.	Sept 19- 20, 2018
Faculty Development Program on “Recent Advances in Chemical Engineering” organized by Department of Chemical Engineering, HBTU, Kanpur	July 23-27, 2018
Workshop on “ Outcome Based Accreditation for Undergraduate Engineering Programs” at HBTU, Kanpur.	March 22-23, 2018
Training Workshop on "Academic Process for the Implementation of Outcome Based Education (OBE)" at HBTU, Kanpur.	Feb. 19-23, 2018
Three day Training workshop for Faculty Mentors on Induction Programme for New Students as member organizing committee at HBTU. Kanpur under TEQIP-III	Sept. 22-24, 2017

(B) Awards/Recognition received by the Department of Oil Technology

Year of Award	Title of the Award	Name of the Awardee	Name of the Awarding Agency with contact details
2021-22	Dr. HussainZaheer Memorial Award 2021	Dr. P. K. S. yadav	OTAI
2018-19	73 rd Annual Convention & International Conference of OTAI	Ms. Neeta Singh Rana	OTAI

(C) Publications of the Department of Oil Technology

Title of the paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
Biolubricant Synthesis from a Blend od Dehydrated Castor Oil and Waste Cooking Oil	SurabhiRajwani and Praveen K.S. Yadav	P.K.S. Yadav	Journal of Test Engineering & Management	2020	0193-4120
Synthesis of Biolubricant and their Applications: An Overview	SurabhiRajwani and P.K.S. Yadav	P.K.S. Yadav	Journal of Test Engineering & Management	2020	0193-4120
Strategies and Characterization	Neeta Singh, S.K.	P.K.S. Yadav	Rasayan Journal	2020	0976-0083

Methods in the Preparation of Polymeric Surfactants for Various Applications	Gupta, P.K.S. Yadav		of Chemistry		
Comparative study of the methods of chemical modification of dehydrated castor oil for synthesis of biolubricant	SurabhiRajwani and P.K.S. Yadav	P.K.S. Yadav	Asian Journal of Chemistry	2021	9707077
Synthesis of biolubricant via Chemical Modification from Vegetable Oil Blend using Hetrogeneous Catalyst	SurabhiRajwani and P.K.S. Yadav	P.K.S. Yadav	Asian Journal of Chemistry	2021	9707077
Synthesis and Performance Evaluation of Green Anionic Poluymeric Surfactant for Detergent Application	Neeta Singh, S. K. Gupta, P. K. S. Yadav	P.K.S. Yadav	Asian Journal of Chemistry	2021	9707077
RSM-Based optimization approach in production of Anionic methyl ester sulfonate for commercial detergent application	Neeta Singh, S. K. Gupta, P. K. S. Yadav	P.K.S. Yadav	J. Inst. Eng. India Ser. E.	2021	22502483
Clay Catalyzed Dimerization of Linseed Oil: Synthesis of Linseed Oil Domers	Gaurav Singh, SurabhiRajwani , P.K.S. Yadav	P.K.S. Yadav	International Journal of Research in Engineering and Science	2021	2320-9364
Synthesis & Characterization of Biosurfactant using waste from oil processing industry as substrate by Pseudomonasaeruginosa (MTCC 424)	Ashutosh Mishra, &Rakesh Kumar Trivedi	R. K. Trivedi	Rasayan Journal of Chemistry	2019	0976-0083
Coconut Oil Based Low Temperature Hair Oil Formulations	S C Mishra, and R K Trivedi	R. K. Trivedi	TEST Engineering and Management	2020	0193-4120
Coconut oil based low temperature liquid hair oil formulations with ester modification	S C Mishra, and R K Trivedi	R. K. Trivedi	TEST Engineering and Management	2020	0193-4120
Coconut oil based liquid hair oil	S C Mishra, and R K	R. K. Trivedi	TEST	2020	0193-4120

formulations with BUTYL Esters and ETHYL Esters modification	Trivedi		Engineering and Management		
Coconut oil based low temperature liquid hair oil formulation: A Review	S C Mishra, and R K Trivedi	R. K. Trivedi	TEST Engineering and Management	2020	0193-4120
A comparative study of biosurfactant preparation by <i>Pseudomonas aeruginosa</i> , MTCC 424 using ricebran oil & soyabean oil substrate	Ashutosh Mishra, & Rakesh Kumar Trivedi	R. K. Trivedi	Journal of Indian Chemical Society	2020	194522
Optimization of process inputs for the synthesis of waste rice bran oil isolated <i>Pseudomonas aeruginosa</i> MTCC 424 biosurfactant using response surface methodology for oil recovery applications	Ashutosh Mishra, G. M. Saud, ShashiBalaGautam, and Rakesh Kumar Trivedi	R. K. Trivedi	Bioresource Technology	2021	9608524
Biosurfactants: Characterization by <i>Pseudomonas aeruginosa</i> , Analysis techniques and application taking rhamnolipid as an example	Ashutosh Mishra, & Rakesh Kumar Trivedi	R. K. Trivedi	International Journal of Chem. Tech.	2021	2455-9555
Molecular characterization of blue-green algae (<i>Anabaena constricta</i>) and comparative studies of biodiesel production from other species	VinayaTiwari, Alok Das, Shallu Thakur & R K Trivedi	R. K. Trivedi	Indian Journal of Chemical Technology	2021	0975-0991
Selection of Indigenous Algal Species for Potential Biodiesel Production	VinayaTiwari, Alok Das, Shallu Thakur & R K Trivedi	R. K. Trivedi	Journal of Pure Applied Microbiology	2021	9737510
Castor Oil-Based Nanolubricants: An Overview	JyotiSrivastava, Tandra Nandi, Rakesh K. Trivedi	R. K. Trivedi	Asian Journal of Chemistry	2021	9707077
Multi-Component Template Effects”- Preparation of Highly Porous Polyaniline Nano Rods using Crude Lemon Juice and its Application for Selective	VineetaGautam, Vijay Laxmi Yadav	Dr. Vineeta Gautam	ACS Sustainable Chem. Eng.	2018	2168-0485

Detection of Catechol					
Preparation and Characterization of Green-nanocomposite Material based on Polyaniline, Multiwalled Carbon Nano Tubes and Carboxymethyl Cellulose: for Electrochemical Sensor Applications	VineetaGautam, Vijay Laxmi Yadav	Dr. Vineeta Gautam	Carbohydrate Polymer	2018	0144-8617
Polyaniline/ MWCNTs/Starch nanocomposite material and hemoglobin modified carbon paste electrode for hydrogen peroxide and glucose biosensing	VineetaGautam, Vijay Laxmi Yadav	Dr. Vineeta Gautam	International Journal of Biological Macromolecul s	2018	0141-8130

(D) Books and Book Chapters published by the Department of Oil Technology

Sl. No.	Name of the teacher	Title of the paper	Title of the proceedings of the conference	Year of publication	ISBN/ISSN number of the proceeding
1	Gaurav Singh, Dr. P. K. S. Yadav	Hazardous waste management An overview of advanced and cost effective solutions/Hazardous waste characteristic and standard management approaches		2022	978-0-12-824344-2
2	Dr. P. K. S. Yadav	Development Characterization and Performance Evaluation of Biodiesel		2016	978-3-659-95708-6
3	Dr. P. K. S. Yadav	Chemical Modification of Dehydrated Castor oil for synthesis of Biolubricant	Proceedings of International conference on Advances in Chemical engineering, AdChE-2020	2020	International conference on Advances in Chemical engineering, AdChE-2020

(E) Expert Lectures organized by the Department of Oil Technology

Sl. No.	Name of the Expert Lecturer/Agency	Year
1.	Dr. Kartik Pondicherry from M/s Anton Par India Pvt. Ltd.	2021
2.	Dr. S. K. Raza, from M/s Fare Labs Pvt. Ltd.	2021
3.	Dr. S. K. Raza, M/s Fare Labs Pvt. Ltd.	2021
4.	Dinesh Sahara Foundation	2021
5.	Mr. AshutoshPandey from Dinesh Sahara Foundation	2021
6.	Dinesh Sahara Foundation	2021
7.	Mr. RajulMaheshwari, from M/s ADM	2021
8.	Mr. ChetanYadav from Strategic Alliances, ICICI Prudential	2021
9.	Mr. RajulMaheshwari, Processing Engineer, ADM Latur	2020
10.	Mr. Ajay Kumar, Project executive Marico Industries	2020
11.	Mr. Ajay Kumar, Project executive Marico Industries	2020
12.	Dr. R. P. Singh, Ex Director, HBTI	2020
13.	Dr. R. P. Singh, Ex Director, HBTI	2020
14.	Dinesh Shakra Management Annual Lecture	2019
15.	Mr. K. C. Rajpoot, President Operations, EmamiAgrotech Ltd.	2019
16.	Oil Technologists Association of India, Kanpur	2019
17.	Department of Chemical Engineering, IIT BHU	2018
18.	Agilent Technologies & OTAI	2018
19.	OTAI	2018

20.	M/S Ruchi Soya	2017
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