



Udupi District

Bioenergy Research, Information & Demonstration Centre



NMAM Institute of Technology, Nitte-574110

ACTIVITY REPORT 2022-23

Industrial Visit by the M R Poonja ITI-Thokur

Students from M R Poonja Industrial Training Institute -Thokur, ITI along with Principal and staff visited, Udupi District Bioenergy Research, Information & Demonstration Centre & Biotechnology Engineering Department, NMAMIT on 12 May 2022. As per the curriculum this visit was planned for ITI students to get training on various aspects of Bioenergy industry. The Bioenergy centre staff Dr. Santhosh, Mr. Manjunath and Mr. Vinay helped to conduct this training program.






World Biofuel Day-2022

The World Biofuel Day activities were conducted by Udupi District Bioenergy Research, Information and Demonstration Centre (BRIDC), Department of Biotechnology Engineering NMAMIT-Nitte on 10 August 2022 by distributing biofuel saplings to Kalya Government school students and on 13 August 2022 by planting saplings in the NMAMIT campus.

Dr. Niranjana N Chiplunkar, Principal, NMAMIT inaugurated the event by planting the biofuel sapling. The Vice Principals, DCOE of Nitte off campus centre and Resident Engineer of NET campus were present during the occasion. The Teaching and non-teaching staffs of Biotechnology department along with final year Biotech engineering students were actively participated in the event.



DEPARTMENT OF BIOTECHNOLOGY ENGINEERING

An Expert talk on

Drop-in Liquid Sustainable Aviation & Automotive Fuels

By Dr. Anil Kumar Sinha
Principal Scientist, CSIR-IIP, Lucknow

On 10th February 2023
11:00 AM – 12:00 PM
Venue: Shambhavi Seminar Hall



Government of Karnataka Energy Minister and Udupi District DC visit to Bioenergy Centre

Sri. V Sunil Kumar, Minister of Energy and Kannada & Culture, Govt. of Karnataka and Kurma Rao M, IAS, Deputy Commissioner along with other officers visited the Udupi District BRIDC at NMAMIT Campus Nitte on 3 March 2023 and appreciated the Centre's efforts in promoting biofuel awareness.



Hirgana High School Students visit to Bioenergy Centre

As part of Awareness Program, The Fuel and Eco Club students of Government High School Hirgana along with staff visited Udupi District Bioenergy Research, Information and Demonstration Centre-Department of Biotechnology Engineering NMAMIT Nitte on 28 March 2023.





Biofuel Skill Lab

In the academic year 2022-23 the major activity in the BRIDC was the Biofuel Skill Lab programme conducted for the 1st Year Engineering students of NMAMIT-Nitte, throughout the semesters. Dr. Ujwal P, Co-ordinator BRIDC and Dr. Santhosh, Scientific Assistant along with BRIDC staffs Mr. Manjunath Rao and Mr. Vinay Shetty put an earnest effort to conduct these theory and lab classes to more than 1000 students. Few batches of other college students also came for their academic project.

Biofuel Skill Lab Highlights

- ☐ Appreciation of the Karnataka State Government's initiative for biofuel awareness programmes
- ☐ Understanding the importance of biofuels in comparison with fossil fuels
- ☐ Study the basic aspects of biofuel production in lab and pilot scale including raw material processing, quality testing and end product

The contents taught within the syllabus through skill lab

Detailed explanation on biofuel programme of Karnataka State Bioenergy Development Board, biofuels such as biodiesel, bioethanol and biogas as alternative fuels, biofuel production raw materials such as seeds and seed cooking oil, environmental benefits of biofuels demonstration of biodiesel production process for lab and pilot scale (50L capacity), oil quality analysis, biodiesel production (chemicals required reaction, duration etc.) purification and fuel quality analysis, soap preparation using by product glycerine.

