



SJM Vidyapeetha®
S J M INSTITUTE OF TECHNOLOGY
H-4 Bypass, P.B.No:73, CHITRADURGA -577502, Karnataka.



INSTITUTION'S INNOVATION COUNCIL (IIC)

Overall Report

on the

“one day workshop on Biodiesel production”

The banner features a yellow and green checkered background. At the top left is the SJM Institute of Technology logo. The text reads: 'SJM Vidyapeetha®', 'S J M INSTITUTE OF TECHNOLOGY', '(Affiliated to VTU, Belagavi, approved by AICTE, New Delhi and Accredited by the NAAC with 'B'' Grade')', 'Post box No. 73, NH -13 Bypass, Chitradurga - 577502, Karnataka'. Below this is the 'INSTITUTION'S INNOVATION COUNCIL' logo and 'DEPARTMENT OF MECHANICAL ENGINEERING & IQAC'. Further down is 'Bio Energy Research, Information and Demonstration Center (BRIDC) Jointly Organizing'. On the left is an illustration of a green bio-fuel pump labeled 'BIO'. The main title is 'One Day Workshop on 'Biodiesel Production''.





SJM Vidyapeetha ®

S J M INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi, approved by AICTE, New Delhi and Accredited by the NAAC with "B" Grade)

Post box No. 75, NH - 15 Bypass, Chitradurga - 577502, Karnataka



DEPARTMENT OF MECHANICAL ENGINEERING

&

IQAC

Bio Energy Research, Information and Demonstration Center
(BRIDC)

Jointly Organizing



One Day Workshop on

'Biodiesel Production'

On 31st Aug.2023, At 10.30 am

Principal

Dr. Bharath.P.B

Resource Person

Dr.R. Suresh PhD,FE

Professor, Department of Mechanical Engineering,
Siddaganga Institute of Technology, Tumakuru.

HOD

Dr. Jagannatha.N

Venue:

Sir M V Seminar Hall
Civil Engineering Department

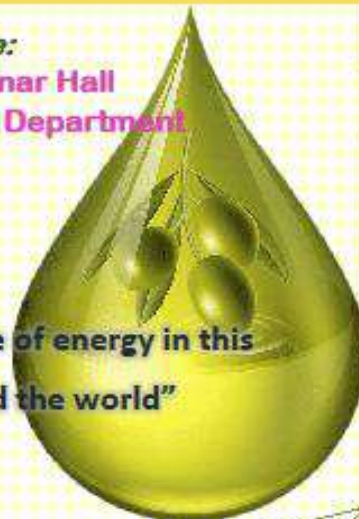
Coordinators

Dr. Rajesh.A.M

Prof. Prabhawamy.G.S

CONSERVE ENERGY

"Biofuels are the future of energy in this
nation and around the world"



Topic: workshop on Biodiesel production

Theme: “Engineering a Sustainable Future with Biodiesel”

Objectives of the Event:

1. Understanding the concept of biodiesel, its properties, and its environmental and economic advantages over traditional fossil fuels.
2. Educate participants about the various feedstock's that can be used to produce biodiesel
3. Provide a comprehensive overview of the biodiesel production process
4. Explore the economic aspects of biodiesel production
5. Highlight the environmental benefits of biodiesel
6. Explore opportunities for biodiesel production and consumption

Speakers: Dr. Suresh R, Professor, Mechanical engineering Department, Siddaganga Institute of Technology, Tumkur, Karnataka.

Brief report of the event:

The one-day workshop on biodiesel production for engineering students was conducted on 31/08/2023 at SJM Institute of Technology, Chitradurga. The event aimed to provide participants with practical insights into the production of biodiesel, its significance in the renewable energy sector, and its potential contributions to sustainability. The event featured a knowledgeable resource person who shared their expertise and insights on biodiesel production. The workshop was organized by department of mechanical engineering with Bio energy Research, information and Demonstration center (BRIDC), and it saw enthusiastic participation from 76 students, faculty and staff.

The event commenced with an inaugural ceremony featuring distinguished guests from academia by watering the Simaruba plant. After the end of the welcome and Guest introduction

session, the workshop coordinator, gave opening remarks about the importance of Bio diesel in the context of renewable energy.

Later, the session was taken over by the eminent resource person of the event Dr. Suresh R, to deliver his speech. The workshop was structured to cover various aspects of biodiesel production and its significance. The agenda included the following sessions;

Session 1: Introduction to Biodiesel and Feedstock selection

- Overview of biodiesel
- Basic chemistry and properties of biodiesel
- Discussion on the environmental benefits of biodiesel
- Detailed explanation of various feedstock options for biodiesel production (e.g., vegetable oil, animal fat, algae)
- Factors influencing feedstock selection, such as regional availability and cost factors.
- Pros and cons of different feedstock choices
- Ethanol is a renewable bio-fuel derived primarily from plant materials

Session 2: Biodiesel Production process

- In-depth exploration of the production process used to produce biodiesel.
- Demonstration of the chemical reactions involved in biodiesel production
- Discussion of the equipment and chemicals required for the production process

Session 3: Laboratory demonstration

- Demonstration of biodiesel production in a controlled laboratory setting.
- Safety precautions and best practices emphasized during the demonstration.

Key areas of the discussions held in this event are:

- Exploration of the current trends in biodiesel research and development.
- Discussion on the potential for reducing greenhouse gas emissions through biodiesel use.

- Presentation of career opportunities in the field of renewable energy and biodiesel production.
- Analysis of the environmental impact of biodiesel compared to traditional fossil fuels.

In the end he also emphasizes the ethanol production as a critical component of the renewable energy landscape, and government cooperation plays a pivotal role in its growth and regulation. Striking a balance between economic development, environmental sustainability, and food security is crucial as governments work to promote ethanol as a cleaner and more sustainable alternative to fossil fuels.

The workshop ended with a questions and answers session with the attendees to clarify doubts and Dr.Rajeesh A.M, ChiefCo-ordinator, BRIDC, concluded the program by delivering a vote of thanks. About 76 students and faculty registered and successfully attended the event.

Conclusion:

The one-day workshop on biodiesel production for engineering students was a resounding success. It provided an excellent platform for participants to learn about biodiesel, its production, and interact with industry experts. The event fostered a deeper understanding of renewable energy sources and their potential impact on sustainability. The organizers are committed to continuing such informative and hands-on workshops to empower engineering students with the skills and knowledge needed to address the global energy and environmental challenges of the future

Overall, the one-day workshop on biodiesel production for engineering students proved to be an enriching and educational experience, equipping students with valuable insights into the world of renewable energy and sustainable fuel production.

SRNO	Names	Dept	Signature
01	Kiran. S	MECHANICAL	Kiran S
02	Balaji T.S	Mechanical	Balaji T.S
03	Pranesh. R	mechanical	Pran
04	Vasun. S	mechanical	Vasun S
05	Poothi masulhi mahite	mechanical	Poothi i
06	Chandan. C.R	mechanical	Chandan. C.R
07	Mangj. S	Mechanical	Mangj. S
08	Deekshith kumar K.Y	Mechanical	Deekshith kumar K.Y
09	Keerthi kumar. B	Mechanical	Keerthi kumar B
10	Lobith. Y	mechanical	Lobith Y
11	Shashank. S	Mechanical	Sh
12	LANKESH M.S	-II- MEC	Lankesh
13	NAGESH kumar. E	-II- MEC	Nageshkumar
14	Hk kishu. S	-II-	Hk kishu
15	Sumanth S.M	-II-	Sumanth
16	Raghavendra. N	Mechanical	Ravi
17	Arneeth. G	Mechanical	Ar
18	Abdul Rehman	mechanical	Abdul Rehman
19	SYED ABDUL RAZAQ	Mechanical	Razaq
20	Pavan kumar. S	Mechanical	Pavan
21	Sruany Nagarjun	mechanical	Sruany
22	Darshan. H	CE	Darshan
23	Waseem akbar. S	C.E	Waseem
24	Shankar babu G.C	C.E	Shankar
25	Sanjay. P.v.	EEE	Sanjay
26	Prasanna. V	EEE	Prasanna
27	Sathish. M	EEE	Sathish. M
28	Pande. S	EEE	Pande
29	Pranav. H	EEE	Pranav
30	Manikanta	EEE	Manikanta
31	Chennu. J.K	EEE	Chennu
32	Wingraj. K	EEE	Wingraj. K

SRNO	NAMES	Deposit	Signature
33	Teju. KP	EE	Teju. KP
34	Anil. B	EEF	Anil. B
35	Pooja. P	EEG	Pooja. P
36	Niveditha. S	EEG	Niveditha. S
37	Nisemitha. HN	EEG	Nisemitha. HN
38	HO Harjain taj. M	EGG	Harjain taj. M
39	Qumath ul aan	BBB	Qumath ul aan
40	Kavya. T	CE	Kavya. T
41	Kavanapriya. R	CE	Salona
42	Bhumiika. S	CE	Bhumiika. S
43	Kumari Jayalokshmi	CG	B Kumari Jayalokshmi
44	Lekha. M. V	CE	Lekha
45	Shifa. H	CE	Shifa
46	Vinoda. B. O	EEG	Vinoda
47	Shubhashree. G	EEG	Shubhashree
48	Suma. K. T	EEG	<u>Suma</u>
49	Meghana C. T	GGG	Meghana
50	Chalthala. V	EEF	Chalthala
51	Krunthika. S	EEG	Krunthika
52	Ajreen Banu Iq	EEG	Ajreen
53	Meghana p. v	EEG	Meghana
54	Venkateshree. B	EEG	Venkateshree
55	Amulya TR	EEG	Amulya
56	Prayanka SN	EEG	Prayanka
57	Shikharajya G. S	EEG	Shikharajya G. S
58	Sangeetha D. J.	EEG	Sangeetha D. J.
59	Hanshika M. K	EEG	Hanshika
60	Prabhavathi K. M	ME	Prabhavathi
61	Md. Samiulla	EEG	<u>Md. Sami</u>
62	R. Raju	EEG	R. Raju
63	Rajesh. E	EEG	Rajesh
64	Dhanjaya. H.	EEG	Dhanjaya
65	Mohita T. O	EEG	<u>Mohita</u>

Slno	Name	Dept	Segn
66	Ajay T	Civil	Ajay
67	Megharaj. B	Civil	Megharaj
68	channakeshava - T	M.E	channakeshava
69	Kavshik. D. Kulkarni	M.E	Kavshik
70)	Venay. H. S.	M.E	Venay
71)	Mohammed Adnan Shaikh	M.E	Mohammed Adnan Shaikh
72)	Abdul Razzaq	M.E	Abdul Razzaq
73)	NARASIMHA.S	M.E	Narasimha.S

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Photographs of the event:

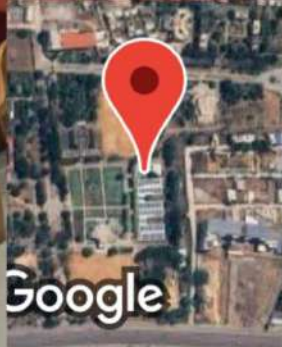




• Introduction
• Bioenergy - Research Information & Communication Centre is supported by Karnataka State Bioenergy Development Board (KSBDB) which comes under the Ministry of Creative, Rural Development & Panchayat Raj (MCRD)
• Ministry of Petroleum and Natural Gas, Govt. of India
• KSBDB has made initial policy on Biofuels 2018 and amended on 15th June 2022.



GPS Map Camera



Chitradurga, Karnataka, India
Civil Department, Hanumantha Nagara, Chitradurga,
Karnataka 577502, India
Lat 14.238601°
Long 76.386539°
31/08/23 10:49 AM GMT +05:30



Key outcome of the World Bio-Fuel day celebration:

1. Participants gained practical knowledge of the biodiesel production process
2. Increased awareness of the environmental benefits and economic viability of biodiesel
3. Exposure to potential career opportunities in the biodiesel industry
4. Participants gain insights into the economic aspects of biodiesel production, including cost analysis and an understanding of the potential for biodiesel projects to be financially viable.
5. Understanding the relevant government policies, incentives, and regulations related to biodiesel production.

These outcomes empower participants with the knowledge, skills, and enthusiasm to contribute to the sustainable and renewable energy sector while aligning with their academic and career goals

Media coverage:

