



DEPARTMENT : CHEMISTRY

ACTIVITY : FACULTY EXCHANGE PROGRAMME

YEAR : 2023-2024

DEPARTMENT OF CHEMISTRY

DATES	TIME	VENUE	MODE
11.07.2023, 08.08.2023 to 12.08.2023	10.30 a.m. to 12:30 p.m. (30 Hrs.)	ESR Almelu Ammal Visual Audio Hall, EMGYWC	Hybrid
Theme	Innovating for a Sustainable Future: The Chemistry of Paints and Biofuels		
Nature of the Activity	Value Added Course - 2023		
Title	Paints and Biofuels		
Convener	Dr.S.Manimekalai Head, Assistant Professor of Chemistry E.M.G.Yadava Women's College		
Course Coordinator	Dr.A.Ramya Assistant Professor of Chemistry E.M.G.Yadava Women's College		
Resource Person	Er. G.M.Srinivasan Managing Director Galileovasan Offshore & Research and Development Pvt. Ltd. Nagapattinam		
Collaborating Industry	Academic Collaboration (MoU) Galileovasan Offshore & Research and Development Pvt. Ltd. Nagapattinam		
Meeting Link	https://meet.google.com/frv-mrtq-kri https://meet.google.com/wbj-mdke-onc https://meet.google.com/qfw-hiqc-yvb https://meet.google.com/adf-ekgw-kex https://meet.google.com/zce-royh-hcj		
Participants	Faculty - 5 Students - 30		

VALUE ADDED COURSE- ON “PAINTS AND BIOFUELS”

Objectives:

1. To enhance the knowledge and skills of Chemistry students in two crucial areas of industrial chemistry.
2. To provide an in-depth theoretical and practical understanding of paint formulations and biofuel production, focusing on their applications, environmental impact, and technological advancements.

Programme Outcomes:

1. Students gained a comprehensive understanding of the chemistry, formulation, and application of paints and biofuels.
2. The course provided Practical Skills in the preparation and analysis of various types of paints and biofuels, enhancing laboratory skills.
3. Participants learned about the environmental implications of traditional paints and fossil fuels, and the importance of developing eco-friendly alternatives.
4. The resource person shared real-world insights and case studies from the industry, bridging the gap between academic knowledge and practical applications.
5. The course prepared students for potential careers in the chemical industry, particularly in sectors related to paints and renewable energy.

Course Proceedings:

1. Lecture Series on Paints:

The first phase of the course focused on paints. Key topics covered included:
Composition of Paints: Detailed discussion on pigments, binders, solvents, and additives.

Types of Paints: Water-based, oil-based, and speciality paints.

Manufacturing Processes: Techniques and equipment used in paint production.

Application Techniques: Methods of applying paints to various surfaces.

Eco-Friendly Paints: Development and benefits of low-VOC and non-toxic paints.

2. Practical Sessions on Paints:

Hands-on laboratory sessions allowed students to formulate different types of paints, conduct quality control tests, and analyze their properties. These sessions reinforced the theoretical knowledge gained during the lectures.

3. Lecture Series on Biofuels:

The second phase, from 1st August to 10th August, concentrated on biofuels.

Key topics included:

Types of Biofuels: Bioethanol, biodiesel, biogas, and advanced biofuels.

Production Techniques: Fermentation, transesterification, and anaerobic digestion processes.

Advantages over Fossil Fuels: Environmental and economic benefits.
Challenges and Innovations: Addressing production challenges and exploring future trends in biofuel technology.

4. Practical Sessions on Biofuels:

Students engaged in laboratory experiments to produce bioethanol and biodiesel, analyze their quality and study their combustion properties. These practical sessions provided valuable hands-on experience in biofuel production.

5. Guest Lectures and Industry Insights:

Er. G.M. Srinivasan shared his extensive industry experience through guest lectures, offering insights into current industry practices, research advancements, and potential career opportunities in the field of paints and biofuels.

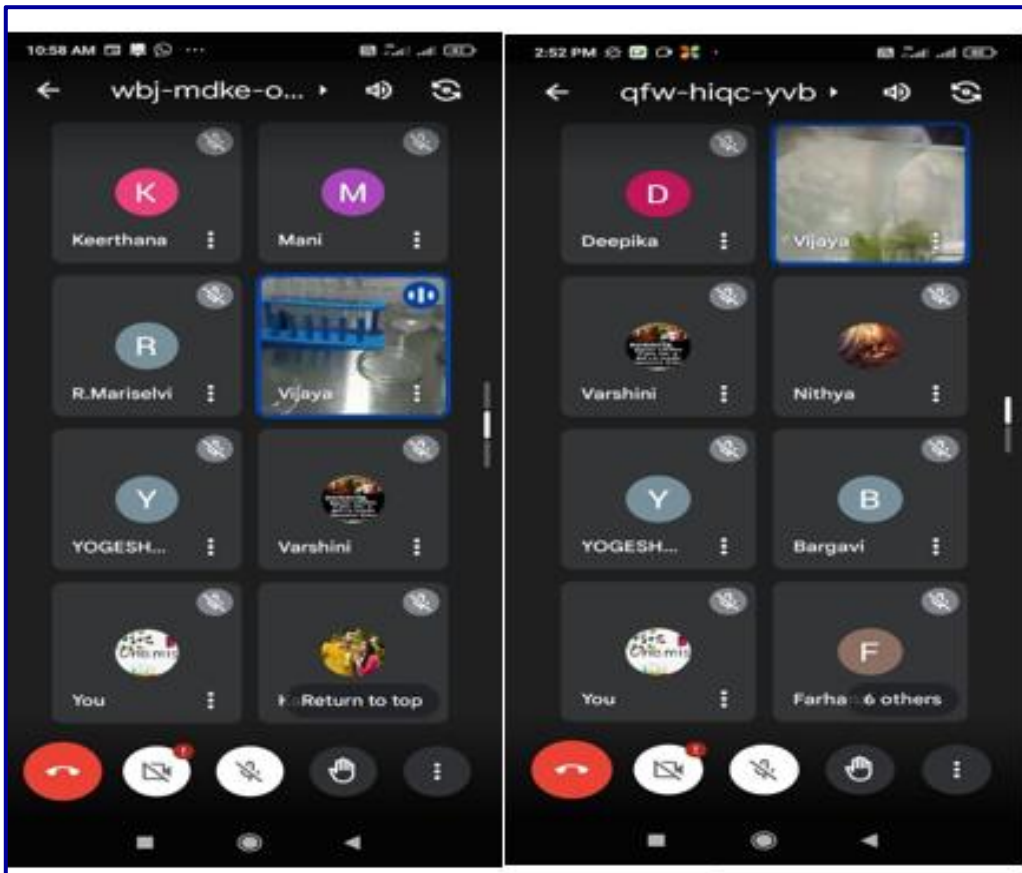
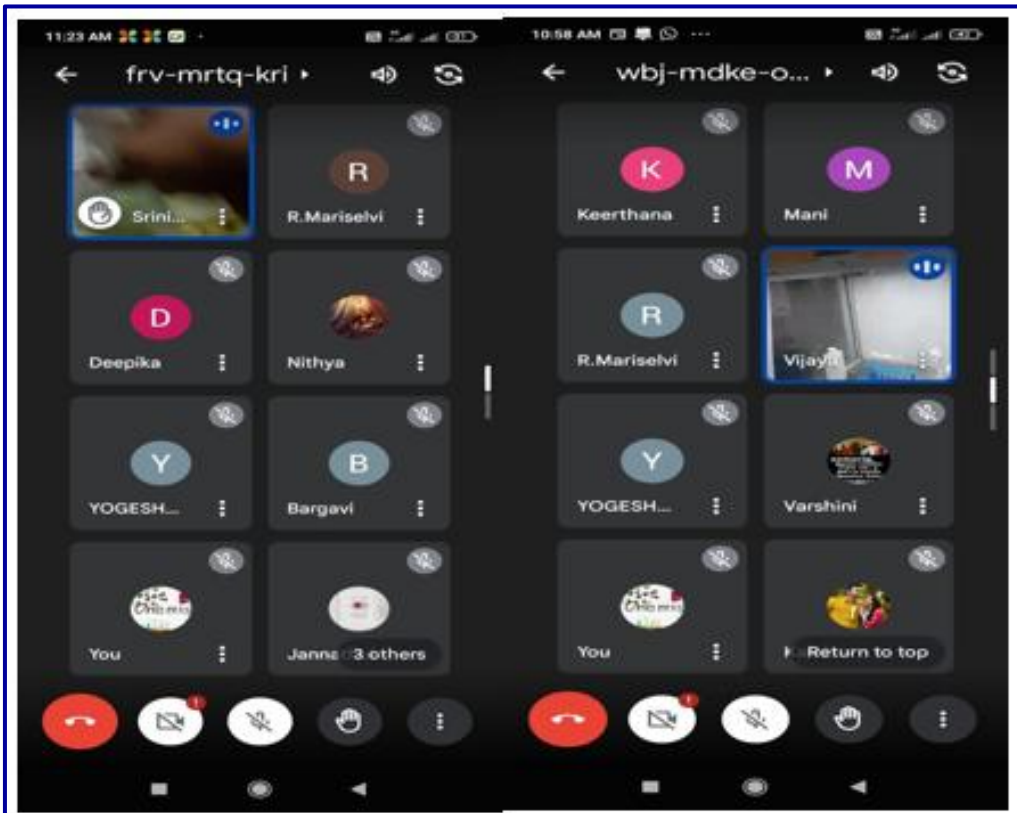
The course concluded on 12th August 2023 with a valedictory function. Certificates of completion were awarded to the participants.

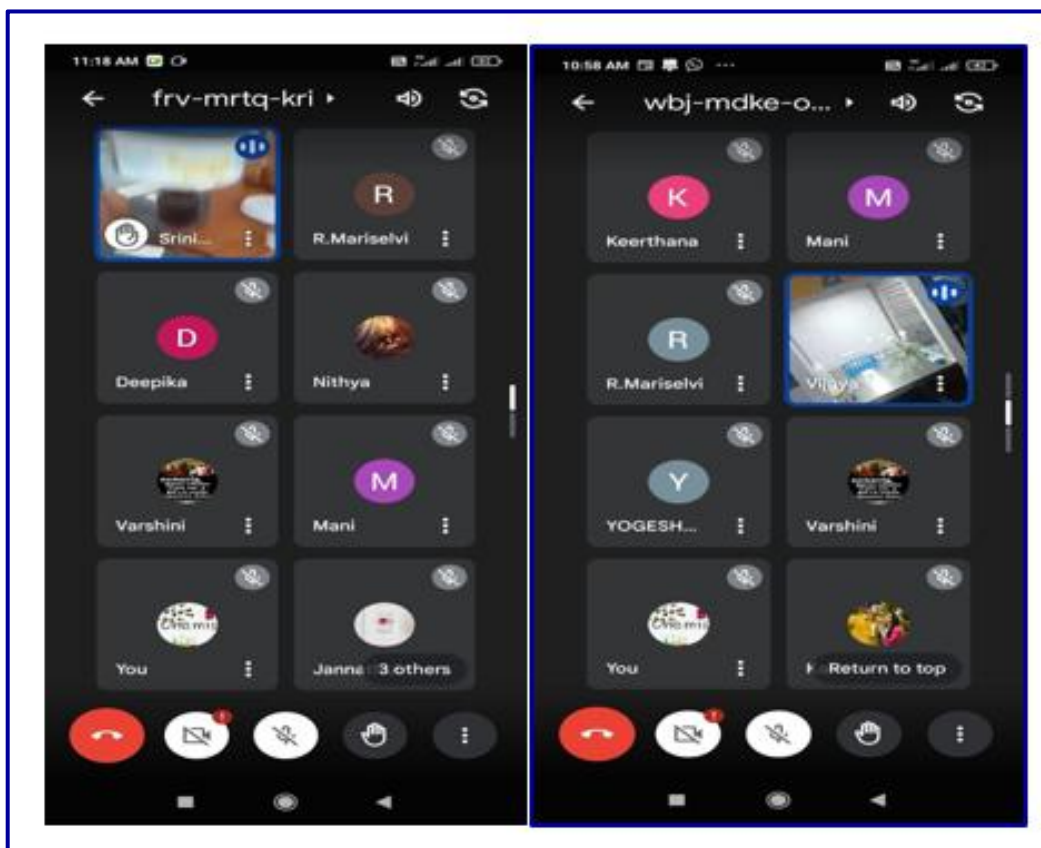
The positive feedback from participants highlighted the effectiveness and impact of the course.

Photograph:



The Department of Chemistry has conducted a Value-Added Course on “Paints and Biofuels” - 11.07.2023, 08.08.2023 to 12.08.2023





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Enclosures:
a. Invitation:

E.M.G YADAVA WOMEN'S COLLEGE
MADURAI - 625014
(AN AUTONOMOUS INSTITUTION - AFFILIATED TO MADURAI KAMARAJ UNIVERSITY
RE- ACCREDITED (3RD CYCLE) WITH GRADE A+ & CGPA 3.51 BY NAAC

DEPARTMENT OF CHEMISTRY
ORGANIZES

MOU signing ceremony & One day industrial training program

RESOURCE PERSON
MANAGING DIRECTOR
Er. GM. Srinivasan, B.Tech.,
Petrochemical Technologist,
GalileoVasan Offshore & Research and Development Private Limited
Nagapattinam, Tamilnadu.

July 11th, 2023

Dr. S.Manimekalai
Head of the Department

Dr. V. Pushpalatha
Principal (i/c)

Organizing Committee
Dr. A. Ramya
Mrs. V. Gohilaa
Dr. P. Bhuvanawari
Ms. K. Punitha

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DEPARTMENT OF CHEMISTRY
ORGANIZES

3 days virtual training on Water based paints and biofuel process (value added course)

RESOURCE PERSON
MANAGING DIRECTOR
Er. GM. Srinivasan, B.Tech.,
Petrochemical Technologist,
GalileoVasan Offshore & Research and Development Private Limited
Nagapattinam, Tamilnadu.

08 Aug 2023 to 10 Aug 2023

Dr. S. Manimekalai
Head of the Department

Dr. V. Pushpalatha
Principal (i/c)

Organizing Committee
Dr. A. Ramya
Mrs. V. Gohilaa
Dr. P. Bhuvanawari
Ms. K. Punitha

b. Certificates

E.M.G. YADAVA WOMEN'S COLLEGE
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IN ASSOCIATION WITH
GALILEOVASAN OFFSHORE & RESEARCH AND DEVELOPMENT PVT LTD

Certificate

This is to certify that Ms. **M. Ananthi** has successfully completed the Value added course entitled "Paints and Biofuels" on 11.07.2023 & 08.08.2023 to 12.08.2023 (30 Hours) conducted by GalileoVasan Offshore & Research and Development Private Limited, Nagapattinam.

For GALILEOVASAN OFFSHORE & RESEARCH AND DEVELOPMENT PVT LTD,
Managing Director
GalileoVasan Offshore & Research and Development Pvt Ltd.

PRINCIPAL (i/c)
E.M.G. YADAVA WOMEN'S COLLEGE
MADURAI-625 014



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IN ASSOCIATION WITH
GALILEOVASAN OFFSHORE & RESEARCH AND DEVELOPMENT PVT LTD

Certificate

This is to certify that Ms. P. ABINAYA has
successfully completed the Value added course entitled "Paints and Biofuels" on
11.07.2023 & 08.08.2023 to 12.08.2023 (30 Hours) conducted by Galileovasan Offshore
& Research and Development Private Limited, Nagapattinam.

For GALILEOVASAN OFFSHORE &
R AND D PVT LTD.,


Managing Director



Managing Director
Galileovasan Offshore & Research
and Development Pvt Ltd.


PRINCIPAL (i/c)
E.M.G. YADAVA WOMEN'S COLLEGE
MADURAI-625 014

c. Nominal Roll of Participants
Student participants of EMGYWC:



E.M.G. YADAVA WOMEN'S COLLEGE, MADURAI – 625 014.

(An Autonomous Institution – Affiliated to Madurai Kamaraj University)

Re-accredited (3rd Cycle) with Grade A⁺ and CGPA 3.51 by NAAC

Value-Added Course on “Paints and Biofuels” - 11.07.2023, 08.08.2023-12.08.2023

S.No.	REGISTER NUMBER	NAME	DEPARTMENT
1.	21CHE01	Aarthi.M	III B.Sc. Chemistry
2	21CHE02	Abinaya.K	III B.Sc. Chemistry
3	21CHE03	Abinaya.P	III B.Sc. Chemistry
4	21CHE04	Amirthavarshini.M	III B.Sc. Chemistry
5	21CHE05	Bargavi.B	III B.Sc. Chemistry
6	21CHE06	Deepika.K	III B.Sc. Chemistry
7	21CHE07	Deepika. P	III B.Sc. Chemistry
8	21CHE08	Deva Dharsini.J	III B.Sc. Chemistry
9	21CHE09	Divyadharshini.B	III B.Sc. Chemistry
10	21CHE10	Farhana Safreen . S	III B.Sc. Chemistry
11	21CHE11	Janani.M	III B.Sc. Chemistry
12	21CHE12	Jannathul Firthous.S	III B.Sc. Chemistry
13	21CHE13	Jeya Reshma.S	III B.Sc. Chemistry
14	21CHE15	Kalainila.C	III B.Sc. Chemistry
15	21CHE16	Kanimalar.S	III B.Sc. Chemistry
16	21CHE17	P.Keerthana	III B.Sc. Chemistry
17	21CHE18	Lakshmi Praba.R	III B.Sc. Chemistry
18	21CHE19	Mano Ranjani.M	III B.Sc. Chemistry
19	21CHE20	Mariselvi.R	III B.Sc. Chemistry
20	21CHE21	Mukila.T	III B.Sc. Chemistry
21	21CHE23	Nithya.G	III B.Sc. Chemistry

22	21CHE24	Nivethitha.R	III B.Sc. Chemistry
23	21CHE25	Premalatha.C	III B.Sc. Chemistry
24	21CHE26	Ragavi.J	III B.Sc. Chemistry
25	21CHE27	Renu Sri .M	III B.Sc. Chemistry
26	21CHE28	Rohini.G	III B.Sc. Chemistry
27	21CHE29	Sandhiya. P	III B.Sc. Chemistry
28	21CHE30	Sathya.D	III B.Sc. Chemistry
29	21CHE31	Umadevi.M	III B.Sc. Chemistry
30	21CHE32	Yogeshwari. S	III B.Sc. Chemistry