

Prof. R. Baskaran

Director

Circular429/CIR/2025

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CIRCULAR

Immersion Global is offering a 3-month **On-line Web enabled Certification Program in New and Renewable Energy including Hydrogen Energy (CNREH)**. This hybrid program combines web-enabled courses in Renewable Energy and Hydrogen Energy, addressing industry requirements.

- This Program has 90% online & 10% live sessions. Last week at IITM campus.
- Faculties are from IIT Madras, Foreign Universities and Major Oil & Gas experts with several years experience.
- Placement assistance will be provided by Zemblance. Though placement is not guaranteed, first batch of 15 students are placed.

Interested students can register directly through the link provided in the attached brochure.

NOTE : This program is solely conducted by the Immersion Global. Centre for International Relations (CIR) will not take any responsibility regarding its norms, rules and regulations.




26-03-2025
DIRECTOR

To
All Deans of campuses
All Directors and HODs (With a request to display on notice board)



**IMMERSION GLOBAL PARTNERS
WITH
IITM GREEN HYDROGEN & HYDROCARBONS
TECH CONSORTIUM**

IIT MADRAS

TO PROMOTE

Web Enabled
Certification Programme
in New and Renewable Energy
Including Hydrogen Energy
(CNREH)





About Zemblance and the Programme

www.zemblance.com

Zemblance Hydrocarbons Pvt. Ltd. Company located in IIT Madras Research Park offers research solutions to upstream oil and gas companies. Zemblance has introduced an Educational Technology (EdTech) Program to enhance the knowledge of students in the fields of petroleum and renewable energy.

IIT Madras Green Hydrogen and Hydrocarbons Tech Consortium is an energy Consortium formed by IITM with multidisciplinary research labs of esteemed professors focusing on Green Hydrogen and Hydrocarbons.

The Consortium offers Certification Programme in New and Renewable Energy including Hydrogen Energy (CNREH). This hybrid program combines web-enabled courses in Renewable Energy and Hydrogen Energy, addressing industry requirements. With a rigorous academic curriculum and state of the art research facilities, the program prepares students for success in the field.

This comprehensive program is designed to provide students with an adaptive syllabus that not only enhances their employability but also enables them to stay updated with real-time industry advancements. The duration of the course spans 3 months (100 Learning Hours), **the last week will be the Academic and Cultural Immersion Experience on IITM Campus.**

Structured around a quarter system, the program encompasses core courses, elective subjects, and industry-based projects. Throughout the program, students will engage in a well-rounded learning experience, culminating in a final project undertaken during the last two weeks. This ensures that students are equipped with the necessary skills and knowledge to excel in the AI and ML oil & gas, coal, renewable, and Hydrogen industries



PROGRAM DETAILS

This Program has 90% Online learning modules and 10% Live sessions

➤ COURSES

5 Core courses
1 Capstone Project IITM
Immersion experience

➤ ELIGIBILITY

Engineering in any discipline and Bachelors in Sciences

➤ INSTRUCTORS

IIT Madras Faculty, Foreign Universities Faculty,
Major oil and gas Experts with several years of experience
are providing online classes.

➤ DURATION

3 Months
12 sessions/week
5 live sessions/month
100 learning Hour

- Each recorded session will be 25 minutes and uploaded to the server and participants can get access.
- Term projects that improve problem-solving abilities and facilitate adaptation to emerging technologies.
- Daily and weekly assignments/tasks with real-time industry problems and case studies



PROGRAM CURRICULUM

➤ COURSE 1

Strategic Green Finance, and decision making; Machine Learning (ML), Artificial Intelligence (AI) and digital signal processing

➤ COURSE 2

Renewable Energy (Geothermal, Wind, Solar, and Battery, Alternative Fuels, Underground Coal Gasification): Technologies, Applications, and Policies

➤ COURSE 3

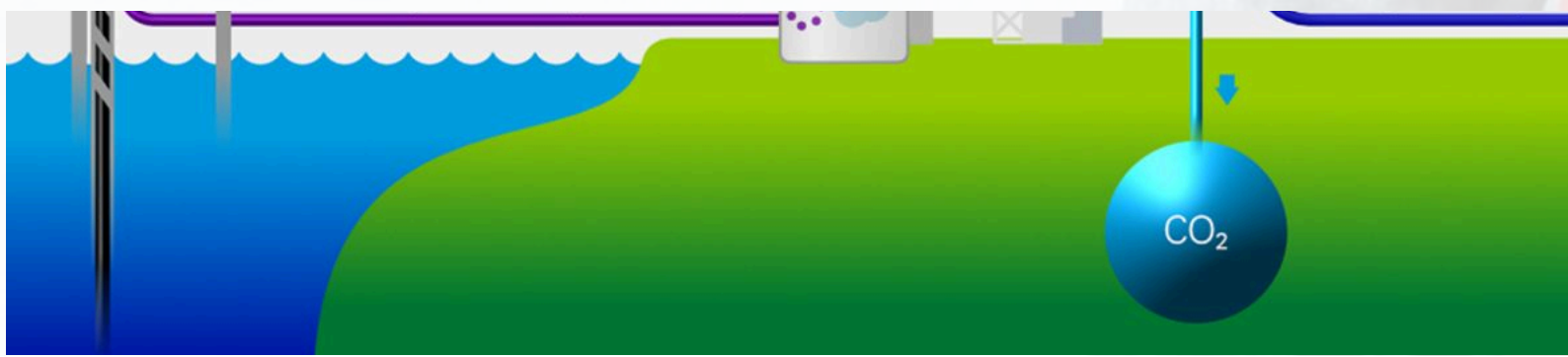
Petrochemicals: Process Design and Optimization, Sustainable Petrochemical Manufacturing

➤ COURSE 4

Hydrogen Production: i. Methane steam reforming
ii. Electrolysis iii. Biomass, Hydrogen Transportation and Storage

➤ COURSE 5

Bio-Fuels (Bio-Ethanol, Compressed Bio Gas, Sustainable Aviation Fuel): Production, Transportation, Storage, and Application.



COURSE DETAILS

- Each course is assisted by 2 teaching assistants, who can help the candidates with doubts clarification, assignments and course material.
- Candidates will be having live sessions with the course instructors 4-5 times a month.
- There will be an examination at the end of the course.

COURSE GRADING

Program follows Grade Point Average (GPA) system. GPA is on a scale of 0 to 10. Letter grades and CGPA are awarded to learners based on the following criteria

GRADE	S	A	B	C	D	E	U
POINTS	10	9	8	7	6	4	0

A minimum D grade should be obtained by the candidate for obtaining this CNREH Programme certificate

Program Duration – 3 months online (last one week immersion at IIT Madras campus)

Starting Time – The program can be started as soon as a cohort of 15 Student registers and do the payment

Immersion Global is a leading player with years of expertise in National/International Education that curates, packages, plans and organises strategic short-term Immersion Learning Programs for students across different overseas campuses through exclusive tie-ups with the top Universities & Institutions across the globe.

Contact

Mr. K. Ravichandran
+91 9677618559
ravi@immersionglobal.com



www.immersionglobal.com



Program Cost is INR 1 Lakh + 18% GST /Student for 3 months

The Program Fee covers

- Tuition fees for 3 months duration
- One Buffet Dinner for the group
- Cultural tour of Chennai and Mahabalipuram
- IITM Campus tour

The Program Fee Does not cover

- Accommodation – Support for accommodation in dormitories on IITM Campus will be provided.
- Flight ticket/ Visa Charges/ Train charges/Food/ and other personal expenses

REGISTER

