

Report of One week Faculty Development Program on **“Research for Sustainable Progress”**

One week Faculty Development Program on "Research for Sustainable Progress" was organized by Department of Chemical Engineering L D College of Engineering, Ahmadabad, during 16th December to 22nd December 2021 in virtual mode. This training program was approved by AICTE and was sponsored by ISTE.

Major objective of this program was to expose the participants in the field of recent technological development. More than 50 faculties from various technical institutions across India have participated in this program.

The inauguration was held on 16th of December 2021 in presence of Shri Ashish Soparkar, Meghamani Organics Ltd as Chief Guest and Dr Sachin Parikh, Joint Director, DTE as Guest of Honor and Patron of the event, Dr Rajul Gajjar. All appreciated the motto of program and emphasized on the need to recent developments in the field of Chemical engineering and allied branches.

The program highlighted the technological developments in the field of chemical engineering and its effective implementation in industry. Recent research trends and innovations in chemical engineering and allied fields with a focus on overall sustainable development were addressed in the program. All the sessions were very useful and informative. Newer or thirst research areas of recent and future time were brought in light.


Experts were from premier academic institutes and R&D organizations and they talked about recent research developments in their fields of expertise. Special sessions on stress management (Art of Living) and NEP – 2020 were also organized in view of present pandemic and academic scenario.


L D College of Engineering, Ahmedabad (CHEMICAL ENGINEERING DEPARTMENT)



AICTE-ISTE sponsored FDP on " Research for Sustainable Progress" during 16/12/21 to 22/12/21



Date	11.00 am to 12.30 pm	2.00 pm to 3.30 pm	4.00 pm to 5.30 pm
	Inauguration (10.30 am to 11 am)		
16/12/21 (Thursday)	Dr Pratik Sheth	Dr. Vimal Kumar	Dr Ramkumar Tittal
	Key note address (Modeling & Simulation of Thermochemical Conversion of Biomass)	The Process Intensification Techniques and their Contribution in Sustainable Development using motionless mixture	Sustainable approach for research processes
17/12/21 (Friday)	Dr Anjali Bishnoi	Dr. Deepak Sau	Dr. Nilesh Mistry
	Sustainable research in Rubber Industry	Treatment of iron ore fines/slimes	Research for Sustainable Industrial competitiveness in Dyes and Intermediate Industry
18/12/21 (Saturday)	Dr. Sachin Parikh	Dr. Nitin Labhsetwar	Dr. Ankush Biradar
	National Education Policy - 2020	Potential energy generation and energy use strategies for sustainable progress	Heterogeneous catalysis: A tool for sustainable development
20/12/21 (Monday)	Dr. Kaushik Nath	Dr. Bharat Modhera	Dr Nitin Padhiyar
	Membrane technology for process intensification and sustainable development	Advanced material synthesis, characterization and their applications	Stress Management
21/12/21 (Tuesday)	Dr. Jagannath Das	Dr. Parag Gogate	Dr. N. M. Patel
	Competitive intelligence, structured innovations and catalyst Process development	Process Intensification of Chemical processing applications using Cavitation Reactors	Multi-objective Optimization: Chemical Engineering Applications
22/12/21 (Wednesday)	Dr. Bhaskar Thallada	Prof. Mohammad Kamil	Dr. R.K.Gajjar
	Sustainable and alternative renewable resources for Fuels, Chemicals and Materials	Petroleum industry and transportation fuels towards sustainable development	Research for sustainable progress for infrastructure development (Valedictory Session)



AICTE-ISTE Sponsored
 one week STTP on
 "Research for Sustainable Progress"








 Sh. Ashish Soparkar



 Dr. Sudhakar Patil



 Dr. Rajar Gajjar



 Dr. Paresh Rana

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AB ANALI BISHNETI	SATYU SINGH
GN Giteshwar Nath (C...	RD Rajender Datta
HP Hitesh Pathar (G...	NP Nandini Patel
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RP RISHIK PATEL	7M 71007 DAKSHINIA
7M 71002 Dhanu Modi	PP PRATIK PATEL
PP PRATIK PATEL	7M 71008 Chandra...
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BS Sankha Bera (Gur...	+40

Microsoft Teams x Presentations - G x MCQ Questions x Link for joining x Downloads x Microsoft Teams x Day 3, 18-12 x Meeting options x

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LIFE CYCLE
YASKAWA's life cycle approach

Stages: Planning and design, Production, Use of product, Recycling and disposal, Elimination of hazardous substances, Energy conservation, Resource conservation, Green logistics, Environmental Management System operation, Logistics and sales, Green procurement, Environmental education for suppliers, LCA and eco-conscious designs, Procurement, Local communities, Suppliers, Education and research institutions, News media, Added eco-value for product, Shareholders and investors, Government, Customers, Employees.

Goals: Added eco-value for product, Recycling and disposal (Collection of discarded products, Repair of parts, Recycling), Energy conservation, Resource conservation, Elimination of hazardous substances, Green logistics (Eco-conscious packaging materials, Disclosure of product's environmental performance), Environmental Management System operation, Logistics and sales, Green procurement, Environmental education for suppliers, LCA and eco-conscious designs, Procurement, Local communities, Suppliers, Education and research institutions, News media, Added eco-value for product, Shareholders and investors, Government, Customers, Employees.

LPG Solar PV

People

Invite someone

Share invite

- KS Khushboo Shah
- KB Khushbu Bhalodiya
- KJ KINTU JAIN
- MT Miral Thakker
- MP Mitul Prajapati
- NG Neerav Gadvi
- NM Nidhi Mehta
- PS Parth Shah On hold
- RB RAJUL BHATT
- RC Ram Chaurasia

More (11)

Others invited (3)

14:16 18-12-2021

2,700 litres of water is required to produce the cotton needed to make a single T-shirt

Over 100 billion garments were produced for the first time in 2014. In fact, the number of garments produced annually has doubled since 2000

60% of all clothing ends up in incinerators or landfills within a year of being made

60% increase was reported in the number of garments bought by an average consumer in 2014 as compared to 2000. Also, consumers kept these clothes for only half as long as they did 15 years ago

Source: Sustainability and Resource Productivity report by McKinsey & Company Times of India 04 Jan 2020

People

- NA NIKITA AMEGAL STUTI SHAR
- SS
- KJ KINTU JAIN HITEESHREE HALL
- HP
- MP Mitul Prajapati Sushree Prajapati
- SP
- KB Khushbu Bhalodiya Divyesh Kumar P...
- DP
- NG Neerav Gadvi Vishakumar Shah
- VS
- DB DIBHAK BHALLA BHAKT PATEL
- BP
- JR Jyoti Rajpuroja Jyoti Rajpuroja
- JP
- NM Nidhi Mehta Ajay Patel
- JP
- RC Ram Chaurasia
- +11

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What is a membrane?

Membrum : Limb (Latin); Membrana (Skin)

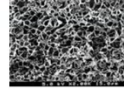
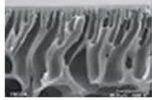
The membrane can be defined essentially as a barrier, which separates two phases and restricts transport of various chemicals in a selective manner.

According to IUPAC, a **membrane** is a "structure, having lateral dimensions much greater than its thickness, through which mass transfer may occur under a variety of driving forces".

A membrane can be homogenous or heterogeneous, symmetric or asymmetric in structure, solid or liquid, can carry a positive or negative charge or be neutral or bipolar.

The membrane thickness may vary from as small as 100 micron to several mms.

Can be made of polymeric as well as inorganic materials



- RP RONAK PATEL
- SD SACHIN SHARMA
- NA NIKITA NARAYAN
- SD SUPRIYA GUPTA
- SS STUTI SHARMA
- DR DR PABEESH BANNA
- MP MITAL PRASADH
- SP SONAM PRASADH
- KB KHUSHI BHARDWAJ
- SB SANGHVI SHARMA
- VS VISHAKH SHARMA
- KJ KANU JAIN
- JR JAYESH JAYASWAL
- NM NIKHIL MEHTA
- PP PRINCEKUMAR P.
- DS DEEPAK SHARMA
- JP JYOTI
- +17 Alpha Point

Sustainable Development?

- Improve the quality of life and to protect the planet. (Sustainable Development Goals, 2019)

THE SUSTAINABLE DEVELOPMENT GOALS



Source: <https://sdgs.un.org/goals>

- VP VIKRANT PATEL
- R RAHUL
- KK KIRAN KUMAR
- GN
- 09:29:37