

OFFICIAL NEWSLETTER OF DEPARTMENT OF CHEMICAL ENGINEERING



PECEMBER 2021 - AUGUST 2022 NEWSLETTER - 04

STUDENT ASSOCIATION OF CHEMICAL ENGINEERING

Student Editors

Mr Surendhar T (III Year) Ms Alka Dinesh (III Year) **Editor**

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Ms Dineshkumar M, AP

Dr Seenuvasan M, HoD



WHAT CHEMICAL ENGINEERS DO?

PRESERVE ENVIRONMENT | ENERGY GENERATION | MATERIAL ADVANCEMENT | BIOMEDICINE ENHANCEMENT | ELECTRONICS IMPROVEMENT | ENHANCE FOOD PRODUCTION

Vision of the Department

To produce dynamic Engineers with excellence in process operations and problem-solving skills to meet the challenges and drive for the growth of the nation.

Mission of the Department

- To foster engineers with quality engineering education to meet the challenging and developing technology in the chemical sectors.
- To prepare students for leadership in diverse careers, create knowledge and provide multidisciplinary solutions to broad societal problems.
- To emphasize on the practical aspects of research, innovation and ensuring the realities of sustainable development.





PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

Graduates of Chemical Engineering will be able to:

- Participate as leaders in their fields of expertise and in activities that support service and economic development nationally and throughout the world.
- Pursue continued life-long learning through professional practice, research and training programs in the field of chemical engineering and science.
- Solve real-life problems in a broad perspective to fulfill ethical, economic, environmental and social responsibilities.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

Graduates of Chemical Engineering will be able to:

- Apply the knowledge of unit processes and operations for the design of Chemical plant.
- Acquire working knowledge of process safety and environment issues in Chemical Processes.
- Innovate and integrate the new ideas of Chemical Engineering processes as a team for the complex problems and development of chemical industries.

CHEMERSATZ TABLE OF CONTENTS

Memorandum of Understand

Expert Lectures

Faculty Achievements

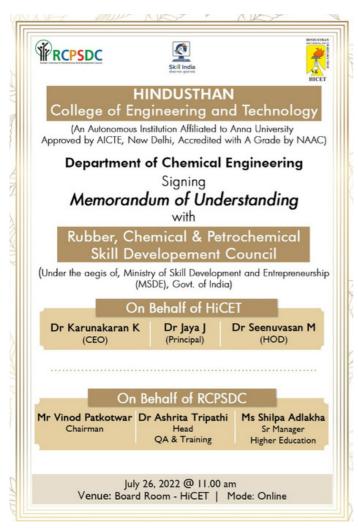
AICTE Funded National Seminar

Continuous Learning

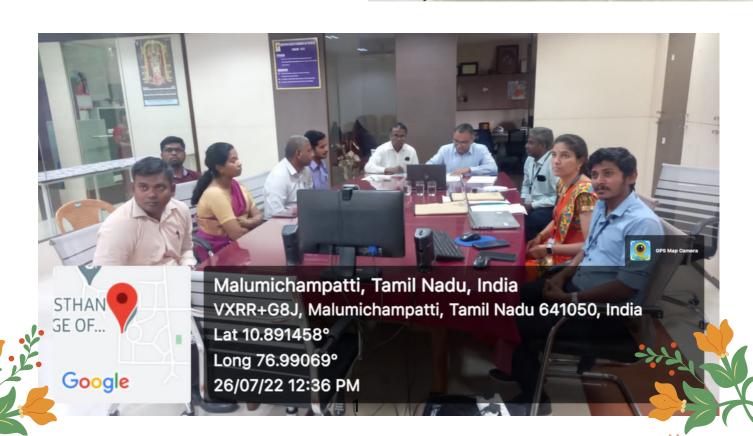
Research

Students Corner

MoU with Rubber, Chemical & Petrochemical Skill Development Council (Under the aegis of Ministry of Skill Development and Entrepreneurship, Under the Govt of India)









International Virtual Conference



Department of Chemical Engineering HINDUSTHAN COLLEGE OF **ENGINEERING AND TECHNOLOGY**



Department of Biotechnology and Microbiology HINDUSTHAN COLLEGE OF ARTS & SCIENCE

Coimbatore, Tamilnadu, India

International Virtual Conference on Microbial Technology for Sustainable Development - 2022

ACBMT'2022

6 MAY, 202 Shri. T S R Khannaiyann

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Professor & Head, Dept. of Biotechnology, HiCAS

Dr. Lali Growther

Professor & Head, Dept. of Microbiology, HiCAS

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Dr. N Hemashenpagam, Professor Dr. R Manju, Assoc. Prof Dept. of Microbiology, HiCAS

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Dr. G Rajalakshmi Professor& Head, Dept. of Biotechnology, HiCAS

Dr. Lali Growther

Professor & Head, Dept. of Microbiology, HiCAS

Co-Ordinators

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Er. A Rajkumar
Assistant Professor, Department of Chemical Engineering, HiCET.

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Dr. R ManjuAssociate Professor, Department of Microbiology, HiCAS. Dr. P Senthilkumar

Associate Professor, Department of Biotechnology, HiCAS. Dr. S G Antony Godson

Assistant Professor, Department of Biotechnology, HiCAS.

ACBMT'2022



Dr. Selvaraju Narayanasamy Associate Professor, Department of Biosciences & Bioengineering, IIT Guwahati, India



Dr. Divya Thiagarajan

Scientist, Pixelgen Technologies, Sweden



Dr. Anil Kumar Madhava

Senior Scientist, Analytical and Environmental Science Division & Centralized Instrument Facility, CSIR, CMCRI, Bhavnagar, India



Dr. Baskar Gurunathan

St.Joseph's College of Engineering, Chennai, India Ranked top 2% Scientist in the World 2020 Issued by Standford University and Elsevier BV-Oct 2021

Dr. Mohammad Feroze Fazaludeen

University of Eastern Finland | UEF - A.I. Virtanen Institute for Molecular Sciences. Early Stage Researcher, Finland

Organized by
Department of Chemical Engineering, HiCET
Department of Biotechnology and Microbiology, HiCAS
Coimbatore, Tamilnadu, India.

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PATENT PUBLISHED & GRANTED



Name	Title	Patent No
Dr Seenuvasan M, Dr. Jeevarathinam G, Dr. Sridar N	Polyester resin loaded nanocomposite material for carbon dioxide sequestration and the method of preparation thereof	Granted - 398788
Dr M Seenuvasan Dr Magudeswaran N Dr Jaya J Mr Dineshkumar M Mr Rajkumar A Ms Induja P Dr Nithyanandam C Dr SenthilMurugan V Mr Sriharish K	Magentite Embedded Biochar as Nano-Sorbent for Effective Adsorption of Textile Dye and the Method Thereof	202241028399
Nabeel Ahmed Kamal Alaskar Chandrakumar Dixit Sushma Jaiswal Dr Seenuvasan M Manish Ranjan Pandey Aravind Kumar Shukla Rajdeep Singh, Ravichandran Sivaramakrishnan M Arpan Kumar Tripathi	Medication Dose Preparation And Transfer System Using Artificial Intelligence Mechanism Scope Of	20 2022 100 927.9
Dr Jeevarathinam G Ms Neethu C S Ms Nivetha T Dr Seenuvasan M Farhana Rasheed Keerthana J M	Production of Biochemcial Solution for Ginger Peel Removal by Citric acid blend From food waste and thereof	202241030415
Mr S Sathish Dr S Sahaya Arokia Selva Dr S Geetha Dr S Vijayalakshmi Dr D Maarimuthu Mr S Prem Dr R Maguteeswaran Mrs P Mathumitha Mrs A Thamarai Muthumari Dr M Rajeshwaran	A New Technique for Solid Removal Dust Removal Using Two Inlet Cyclone Separator	202241045257 A

PATENT PUBLISHED & GRANTED



	Granted	Publishe
Dr Seenuvasan M	02	02
Mr Dineshkumar M	0 N	01
Mr Rajkumar A	0	01
Ms Induja P	0	01
Mr Sathish J	0	01

Bundesrepublik Deutschland -

Urkunde

über die Eintragung des Gebrauchsmusters Nr. 20 2022 100 927

Bezeichnung: System zur Vorbereitung und Übertragung von Medikamentendosen mit künstlicher Intelligenz

G16H 20/10

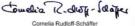
Inhaberlinhaberin:

Ahmad, Nabeel, Kanpur, UP, IN
Alaskar, Kamal, Kolhapur, Maharashtra, IN
Dixit, Chandra Kumar, Lucknow, UP, IN
Jaiswal, Sushma, Indore, Madhya Pradesh, IN
Muthulingam, Seenuvasan, Coimbatore, Tamil Nadu, IN
Pandey, Manish Ranjan, Moradabad, UP, IN
Shukla, Arvind Kumar, Sultanpur, U.P, IN
Singh, Rajidep, Moradabad, UP, IN
Singh, Rajidep, Moradabad, UP, IN
Sivaramakrishnan, Ravichandran, Chennai, Tamil Nadu, IN
Tripathi, Arpan Kumar, Durg, Chhattisgarh, IN

Tag der Anmeldung: 18.02.2022

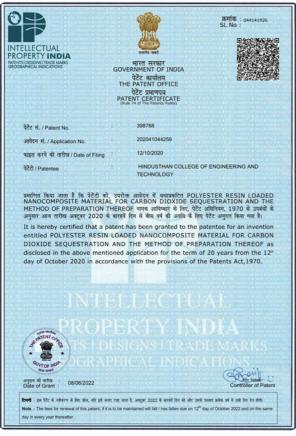
Tag der Eintragung 02.06.2022

Die Präsidentin des Deutschen Patent- und Marker



München, 02.06.2022

setzungen der Schutzfähigkeit werden bei der Eintragung eines Gebrauchsmusters Ien Rechtsstand und Schutzumfang entnehmen Sie bitte dem DPMAregister unter w





The Patent Office Journal No. 24/2022 Dated 17/06/2022



RESEARCH PUBLICATIONS



S.No	Name of the Faculty (with designation)	Name of the Journal	Title of the Paper	Volume/Issue/PP/Ye	DOI	Index	h index
1.	Dr M Seenuvasan (Professor & HoD)	Chemosphere	Kinetics, equilibrium and thermodynamic investigations of methylene blue dye removal using Casuarina equisetifolia pines"	285/ - / 131480 / 2021	https://doi.org/10.10 16/j.chemosphere.20 21.131480	Scopus &Web of Science	8.9
4.	Dr M Seenuvasan (Professor & HoD)	Chemosphere	Modelling of urea hydrolysis kinetics using genetic algorithm coupled artificial neural networks in urease immobilized magnetite nanoparticles	303 / - / 134929 / 2022	https://doi.org/10.10 16/j.chemosphere.20 22.134929	Scopus & Web of Science	8.9

BOOK CHAPTER PUBLICATIONS

S.No	Name of the Faculty (with designation)	Name of the Journal	Title of the Paper	Volume/Issue/PP/ Year	Publisher	DOI
1.	Dr M Seenuvasan (Professor & HoD)	Sustainable Bioprocessing for a Clean and Green Environment	Phycoremediation of Heavy Metals in Wastewater: Strategy and Developments	1/ - / 163-175 / 2021	Taylor and Francis	https://www.taylorfrancis.com/ch apters/edit/10.1201/9781003035398 -9/phycoremediation-heavy- metals-wastewater-velusamy- priya-sivakumar-vivek-carlin- geor-malar
2.	Dr M Seenuvasan (Professor & HoD)	Sustainable Bioprocessing for a Clean and Green Environment	Bio-based Coagulants for the Remediation of Environmental Pollutants	1/-/103-112 / 2021	Taylor and Francis	http://dx.doi.org/10.1201/97810030 35398-6







RESEARCH & BOOK CHAPTER PUBLICATIONS







6 Bio-based Coagulants for the Remediation of Environmental Pollutants

Mansi Kikani and Chanchpara Amit
CSIR-Central Salt & Marine Chemicals Research Institute,
India

Doddabhimappa Ramappa Gangapur and Madhava Anil Kumar

CSIR-Central Salt & Marine Chemicals Research Institute, India; Academy of Scientific and Innovative Research, India Muthulingam Seenuvasan

Hindusthan College of Engineering and Technology, India

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6.1 INTRODUCTION

Water quality, its goodness, and deterioration are governed by several factors such as natural conditions and anthropogenic effects. Water finds its use in domestic and industrial supplies, irrigation, nurturing, breeding and preservation of aquatic life, power generation, transport, and recreational activities. Everyday activities and their associated processes generate pollution at all spheres: atmosphere, lithosphere, biosphere, hydrosphere, and sphere of the environment. Regulatory agencies are concerned with protecting the environment into two categories: (a) point and (b) non-point sources.

9 Phycoremediation of Heavy Metals in Wastewater Strategy and Developments

Velusamy Priya
SNS College of Engineering, India
Sivakumar Vivek and Muthulingam Seenuvasan
Hindusthan College of Engineering and Technology, India
Carlin Geor Malar
Rajalakshmi Engineering College, India

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82 Students have successfully registered and become a member of Indian Institute of Chemical Engineers (IIChE)

LTY PARTICIPATION - FDP/SEMINAR/WORKSHOPS

DR SEENUVASAN M (PROFESSOR & HEAD)

S.No	Name of Staff	Date	Title of the FDP/Seminar/Works hop/STTP/ Training program	Name of Organizing Institute	Place
			Workshops		
1.	Dr Seenuvasan M	13.12.2021 to 17.12.2021	Technologies for Increasing the Shelf-Life of Perishable Foods	NIT	Rourkela
2.	Dr Seenuvasan M	25.01.2022	National Intellectual Property Awareness Mission	Intellectual property of India	New Delhi
			FDPs/STTPs		
1.	Dr Seenuvasan M (Professor)	07.02.2022 to 11.02,2022	Carbon Balance and Environmental Sustainability	BMS College of Engineering, Bengaluru	Karnataka
2.	Dr Seenuvasan M (Professor)	07.03.2022 to 11.03.2022	Recent Trends in Upstream Petroleum Technology	Dibrugarh University	Assam
3.	Dr Seenuvasan M (Professor)	07.02.2022 to 11.02.2022	Online Orientaion Training Programme for Mentors	NITTTR – AICTE, Chennai	Tamilnadu
4.	Dr Seenuvasan M (Professor)	1.03.2022-5.03.2022	Domains of Academis: Research and Teaching -Learngin	Department of Chemical Engineeringm, Marwadi University, Gujarat	Gujarat
5.	Dr Seenuvasan M (Professor)	04.10.2021 to 09.10.2021	Optimization, modelling and simulation for Process Industries	Department of Chemical Engineering, Annamalai University.	Tamilnadu
6.	Dr Seenuvasan M (Professor)	28.06.2021 to 02.07.2021	International Entrepreneurship Development Programme	Dr. S. Gopalaraju Govt First Grade College, Karnataka.	Karnataka
7.	Dr Seenuvasan M (Professor)	27.09.2021 to 02.10.2021	Recent advances in soft computing Techniques for Optimizing Industrial Process	Department of Chemical Engineering, Annamalai University.	Tamilnadu





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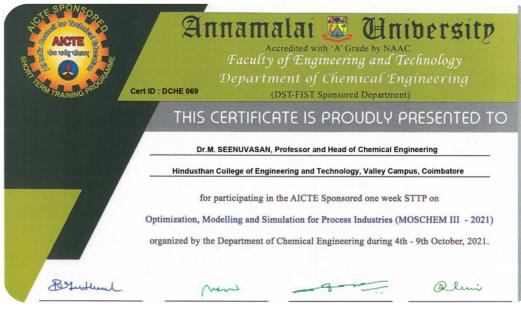


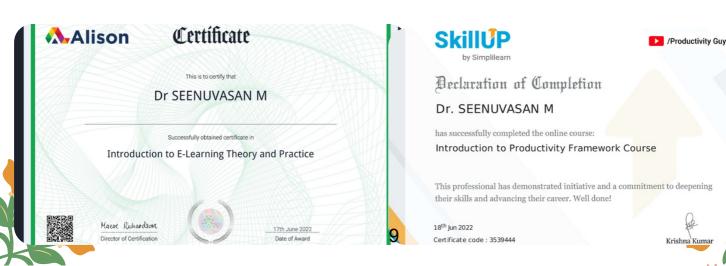
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DR SEENUVASAN M (PROFESSOR & HEAD)









JLTY PARTICIPATION - FDP/SEMINAR/WORKSHOPS/

MS DRISYA G CHANDRAN (ASSISTANT PROFESSOR) MS FETCIA JACKULIN (ASSISTANT PROFESSOR)

S.No	Name of Staff	Date	Title of the FDP/Seminar/Works hop/STTP/ Training program	Name of Organizing Institute	Place
			FDPs/STTPs		
1.	Drisya G Chandran (Assistant Professor)	23.02.2022 to 25.02,2022	Effective Pedogogies in Teaching and Learning	Dhaanish Ahmed College of Engineering	Tamilnadu
2.	Drisya G Chandran (Assistant Professor)	28.02.2022 to 04.03.2022	Control System and Sensor Technology	National Institute of Technical Teachers' Training and Research, Kolkata.	West Bengal
3.	Drisya G Chandran (Assistant Professor)	07.3.2022 to 11.03.2022	Recent Trends in Upstream Petroleum Technology	Dibrugarh University	Assam
4.	Drisya G Chandran (Assistant Professor)	24.01.2022 to 31.01.2022	Unit Operations in Agricultural Processing	SNS College of Technology, Coimbatore	Tamilnadu
5.	Ms Fetcia Jackulin (Assistant Professor)	27.09.2021 to 02.10.2021	Undergone STTP on Recent Advances in Soft Computing Techniques for Optimizing Industrial Process (MOSCHEM- II 2021).	Annamalai University	Tamilnadu





FACILTY PARTICIPATION - FDP/SEMINAR/WORKSHOPS/

MS DRISYA G CHANDRAN (ASSISTANT PROFESSOR) MS FETCIA JACKULIN (ASSISTANT PROFESSOR)









ILTY PARTICIPATION - FDP/SEMINAR/WORKSHOPS

MR DINESHKUMAR M (ASSISTANT PROFESSOR)

S.No	Name of Staff	Date	Title of the FDP/Seminar/Works hop/STTP/ Training program	Name of Organizing Institute	Place			
	Workshops							
1.	Mr Dineshkumar M	27.06.2022 – 28.06.2022	Quality Assessments and Accreditation in HEIs	Sathyabama Institute of Science and Technology	Chennai			
			FDPs/STTPs					
1.	Mr Dineshkumar M (Assistant Professor)	07.02.2022 to 11.02.2022	Intellectual Property Rights in Academia: Creation, Protection, and Commercialization	Andhra University	Andhra Pradesh			
2.	Mr Dineshkumar M (Assistant Professor)	20.12.2021 to 24.12.2021	Waste Technology	Government Engineering College, Bharuch	Gujarat			
3.	Mr Dineshkumar M (Assistant Professor)	21.02.2022 to 25.02.2022	Emerging Trends in Green Energy Technologies	Government Polytechnic Gondia	Maharashtra			
4.	Mr Dineshkumar M (Assistant Professor)	24.01.2022 to 31.01.2022	Unit Operations in Agricultural Processing	SNS College of Technology, Coimbatore	Tamilnadu			
7.	Mr Dineshkumar M (Assistant Professor)	08.08.2022 to 14.08.2022	Emerging Trends in Food Processing	Department of Food Technology, HiCET	Tamilnadu			

MR DINESHKUMAR M (ASSISTANT PROFESSOR)















Dean - IQAC



Vice Chancellor





CERTIFICATE OF COMPLETION

Presented to

Dinesh Kumar

For successfully completing a free online course Marketing: Strategic Framework

Provided by

Great Learning Academy



CERTIFICATE OF COMPLETION

Presented to

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For successfully completing a free online course Business Finance Foundations

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MR RAJKUMAR A (ASSISTANT PROFESSOR)

S.No	Name of Staff	Date	Title of the FDP/Seminar/Works hop/STTP/ Training program	Name of Organizing Institute	Place
			Workshops		
1.	Mr Rajkumar A	01.07.2021	Bloom's Taxonomy - An Insight	Internal Quality Assurance Cell & Curriculum Development Cell, HiCET	Coimbatore
2.	Mr Rajkumar A	17.07.2021 & 18.07.2021	Emerging Trends in Agricultural Science and Technology	Kalasalingam Academy of Research and Education, Krishnankovil	Krishnankovil
			FDPs/STTPs		
1.	Mr. Rajkumar A (Assistant Professor)	07/02/2022 to 11/02/2022	Avenues for Energy Conservation in Thermal Power Plants	Anna University	Tamilnadu
2.	Mr. Rajkumar A (Assistant Professor)	21/02/2022 to 25/02/2022	Green Technology and Sustainability	National Institute of Technology, Durgapur	West Bengal
3.	Mr. Rajkumar A (Assistant Professor)	24.01.2022 to 31.01.2022	Unit Operations in Agricultural Processing	SNS College of Technology, Coimbatore	Tamilnadu





FAULTY PARTICIPATION - FDP/SEMINAR/WORKSHOPS/

MR RAJKUMAR A (ASSISTANT PROFESSOR













LTY PARTICIPATION - FDP/SEMINAR/WORKSHOPS

MR INDUJA P (ASSISTANT PROFESSOR)

Title	Level	Mode	Venue	Sponsored Agency	Date
Green Technology & Sustainability Engineering	National	Online	Bharati Vidyapeeth College of Engineering, Navi Mumbai		23.08.2021 to 27.08.2021
Energy Engineering	National	Online	Defence Institute Of Advanced Technology (Du)	AICTE Training And	21.02.2022 to 25.02.2022
Carbon Balance and Environmental Sustainability	National	Online	B.M.S. College of Engineering	Learning (ATAL) Academy	07.02.2022 to 11.02.2022
A research Oriented Academic Body	National	Online	Dr S Gopalaraju Govt. First Grade College, Karnataka		22.06.2021 to 26.06.2021
International Entrepreneurship Development Programme	National	Online	Dr. S. Gopalaraju Govt First Grade College, Karnataka.	Dr. S. Gopalaraju Govt First Grade College, Karnataka.	28.06.2021 to 02.07.2021
Recent Trends in Upstream Petroleum Technology	National	Online	Dibrugarh University	AICTE Training And Learning (ATAL) Academy	07.03.2022 to 11.03.2022
Unit Operations in Agricultural Processing	National	Online	SNS College of Technology, Coimbatore	Anna University	24.01.2022 to 31.01.2022





FACULTY PARTICIPATION - FDP/SEMINAR/WORKSHOPS/STT

MR INDUJA P (ASSISTANT PROFESSOR)











FACULTY PARTICIPATION - FDP/SEMINAR/WORKSHOPS/STTP) MR INDUJA P (ASSISTANT PROFESSOR)











Events Organized

S.No	Name of the event	National / International	Date	No. of Students Benefited	No. of Faculty Benefited	External Resource Person	
						Academic	Industry
1.	Education Equality Empowerment	Regional	23.12.2021	45	5	1	
2.	IPR Basics and Indian Patenting System	Regional	28.01.2022		5		1
3.	Effective Separation of Emerging Contaminants from water environment using hydrothermally derived activated carbon spheres	Regional	22.12.2021	133	5	1	
4.	Personality Perfection Programme	Regional	5.03.2022	107	5		1
5.	Role of Engineers in Water Conservation	Regional	22.03.2022	96	5	1	
6.	Innovation in Paint Manufacturing Technology	Regional	02.06.2022	57	5	1	











Hindusthan College of Engg & Tech



(An Autonomous Institution)

DEPARTMENT OF CHEMICAL ENGINEERING

IN ASSOCIATION WITH

"CHEMSARTZ"

(STUDENT ASSOCIATION OF CHEMICAL ENGINEERING)
Organizes World Water Day Webinar on

"Role of Engineers in Water Conservation"



Water

22 MARCH



Dr Subhagar S

Associate Professor

Department of Chemical Engineering

Annamalai University

CEO Principal
Dr Karunakaran K Dr Jaya J

Convenor Coordinators

Dr Seenuvasan M, Mr Rajkumar A, AP/Chem Professor & Head Ms Drisya G C, AP/Chem

Day



75%
OF PLANET
EARTH IS
COVERED IN
WATER

2.5% ONLY FRESH WATER

https://meet.google.com/apf-jnvw-wjh

22 - March - 2022 @ 03.00 PM

E- Certificate will be Provided











HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY





DEPARTMENT OF CHEMICAL ENGINEERING

In Association with

Makeover Paints

IIC Self Driven Activity
Organizes One Day Workshop
on







KEY PERSON Dr. S Subhagar

Associate Professor

Department of Chemical Engineering

Annamalai University



KEY PERSON

Ms. P Induja

Assistant Professor
Department of Chemical Engineering
HiCET



Dr. K Karunakaran
CEO
Hindusthan Educational Institutions

Dr. J Jaya Principal HiCET

Conveners
Dr. M Seenuvasan

Professor & Hoad

Professor & Head

Dept. of Chemical Engg

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HINDUSTHAN

COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution)

Valley Campus, Pollachi Highway, Coimbatore - 641032.



Department of Chemical Engineering & Food Technology

Cordially invite you all for

IIC Self Driven Activity

Webinar on

"IPR Basics and Indian Patenting System"



Mrs.Divya Sridharan

Independent Patent Agent
Former Visiting Faculty
(IPR Valuation and Management)
UPES, Dehradun

Date: 28.01.2022 3.00pm

Dr. J.Jaya Principal

Convenor Dr.M. Seenuvasan HoD/Chemical Dr. K. Karunakaran CEO

Coordinators Ms.P.Induja, AP/Chemical Mr.M.Dineshkumar AP/Chemical Mrs.C.S.Neethu , AP/FT

Join us live on Google Meet
https://meet.google.com/uyu-zszn-hon





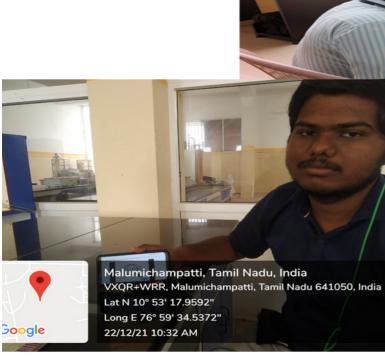




On 22nd December 2021, Dr P Senthilkumar

Head, Centre of Excellence in Water
Research (CEWAR), Professor, SSN
College of Engineering, Chennai had
Provided a Lecture Effective Separation
of Emerging Contaminants from water
environment using hydrothermally had
organized by Ms Fectia Jackulin
Department of Chemical Engineering,
HICET

Malumichampatti Tamil Nadu India















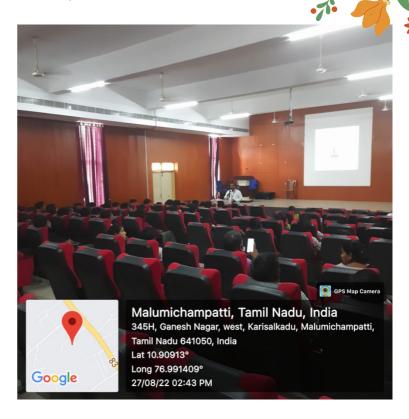


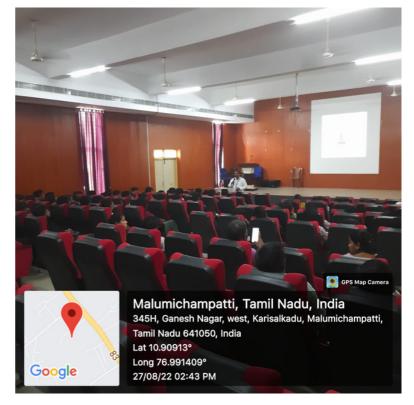






















(An Autonomous Institution)
Valley Campus, Pollachi Highway, Coimbatore

Department of Chemical Engineering

We cordially invite you all for the
Webinar on
"Education Equality Empowerment"

Mrs. Keerthana Sekar

Senior Research Associate IGM Biosciences United States of America

CEO

Dr Karunakaran K

Principal Dr Jaya J

Convenor

Dr Seenuvasan M

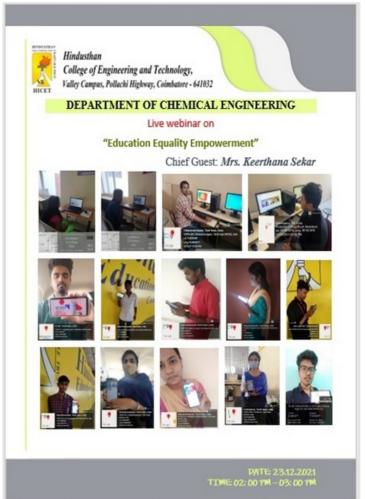
Professor & Head

Co-ordinator's Ms Induja P, AP Ms Drisya G Chandran , AP

DATE: 23.12.2021 Time: 02: 00 PM - 03: 00 PM

JOIN US LIVE ON WEBINAR JAM

https://event.webinarjam.com/channel/HicetChemical

















COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University | Approved by AICTE, New Delhi, Accredited with 'A' Grade by NAAC)

Department of Chemical Engineering

Inviting you all for the

Webinar on

"Importance of Under Graduate Research in Innovation"

IIC self-driven activity





Research Scientist 'C'
Centre for Waste Management
'International Research Centre'
Sathyabama Institute of
Science and Technology

AUGUST 24, 2022 @11.30 AM

https://meet.google.com/fnp-sfsv-vrp

Patrons

Dr Jaya J Principal Dr Karunakaran K CEO

Dr Seenuvasan M HoD/Chem Engg

Convener

Co-ordinators

Er Sathish J AP/Chem Engg Dr Vivek M S ASP/Chem Engg



Event organized - 9



On 26.08.2022 - Department of Chemical Engineering organized Opportunities in Service Commissions & Public Sector Units. The main purpose of the Programme was to create awareness among the students about the scope in the defense sectors and exams related to it.





The main purpose of the Programme was to create awareness among the students about the scope in the defense sectors and exams related to it.







97 of our students had attended and cleared their doubts with the expert



Hindusthan College of Engineering and Technology

An Autonomous Institution Affiliated to Anna University
Approved by AICTE, New Delhi Accredited with 'A' Grade by
NAAC | Accredited by NBA (ECE, MECH, EEE, IT & CSE)

Valley Campus, Pollachi Highway, Coimbatore 641 032.



TOP CHEMICAL PROPERTY OF THE P

Department of Chemical Engineering

Organizes Seminar on
Understanding Diversity & Inclusion in
21st Century Context : Demystifying
Gender

Rohan Jeyakumar

Strategic Planning | System Reform |
Governance | Social Entrepreneurship |
Educator Capacity Building | Organisation
Development
Consultant, Quest Alliance,
Bengaluru, Karnataka, India

Dr K Karunakaran, CEO
Hindusthan Educational Institutions.

Dr J Jaya, Principal

Convener

Patrons

Dr Seenuvasan M, Head

Co-ordinators

Ms Induja P, Assistant Professor Mr Rajkumar A, Assistant Professor 30.08.2022 | 2:30 PM Webinar



SCAN ME

Cordially Invites you all

Cutreach And Extension Activity-1

On June 6, 2022
Lion Pasumai Desam

Er S Rajendhar ,Founder of
PasumaiDesamArakattalai ,
had provided an awareness
about WORLD

ENVIRONMENT DAY-

2022. Our students 30 members had participated in this event. Around 50 and 30 tree saplings were planted inside and outside the campus respectively.



Set of 10 students on 2 batches conducted a road rocco on environmental pollution in the industrial corridor in the talumachampatti, Coimbatore.









Outreach And Extension Activity





On 10.08.2022 Department of
chemical
Engineering
organized
Cleanliness Drive
under Swachh
Bharat Abhiyaan
Programme





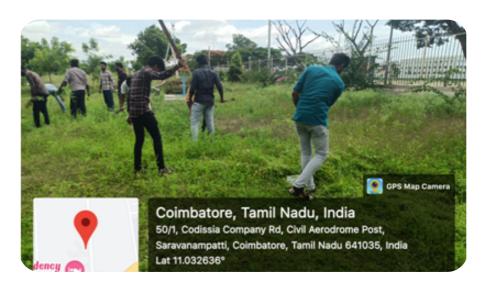
The main purpose of the Programme was to create Awareness among the Students, Shopkeepers and Devotees in Perur Temple regarding cleanliness and its benefits. Our Students members had participated in this programme.

Outreach And Extension Activity



On 11.08.2022 - Department of chemical Engineering organized Cleanliness Drive under Swachh Bharat Abhiyaan Programme

The main purpose of the Programme was to create awareness among the Students in Regional Science Centre and Museum – Coimbatore regarding cleanliness and its benefits.





Our Students 57 members had participated in this programme.

Outreach And Extension Activity



On 11.08.2022 - Department of chemical Engineering organized Cleanliness Drive under Swachh Bharat Abhiyaan Programme

The main purpose of the Programme was to create awareness among the Students in Regional Science Centre and Museum – Coimbatore regarding cleanliness and its benefits.





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Department Cultural Activities - Chess



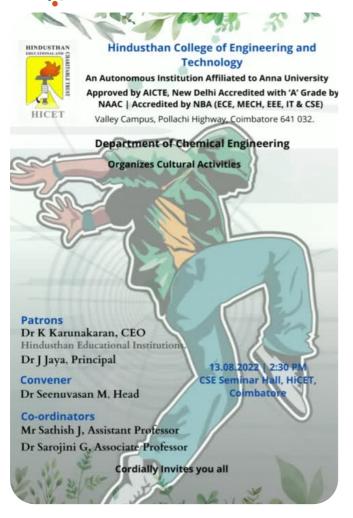








Department Cultural Activities - Dance







PROGRESS CONTINUES TO FALTER, HOW DO THE SUSTAINBLE DEVELOPMENT GOALS GET BACK ON TRACK?

The UN's Sustainable Development Report - updated annually and now in its 7th iteration - details the progress made against the UN's Sustainable Development Goals which aim to achieve decent lives for all on a healthy planet by the year 2030. Digital & Communications Manager, Ben Stallworthy, takes a look at some of the key takeaways from this year's report. The UN's Sustainable Development Report assesses progress in meeting the 17 Sustainable Development Goals (SDGs) that aim to achieve peace and prosperity for people and the planet. First outlined in 2015 and adopted by 193 countries, they are integrated areas of focus ranging from education and health to climate action and biodiversity. Within each of the 17 Goals are a set of specific targets which governments commit to achieving.





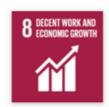
































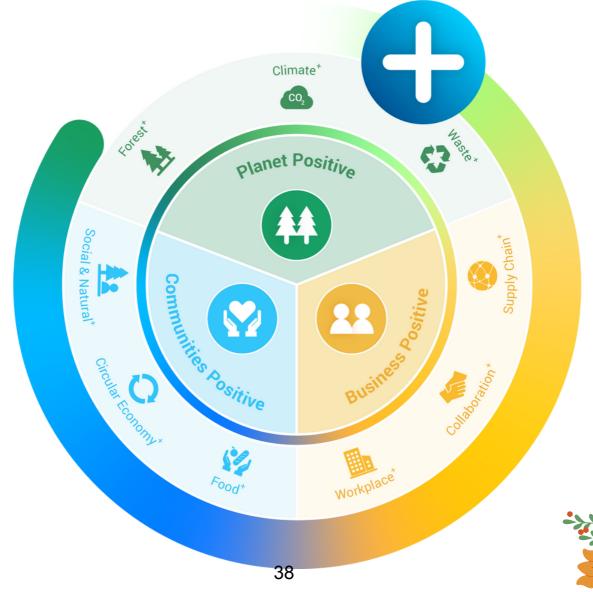
There is one key oversight in the setting of these goals, in that they don't explicitly recognise the relevance of population growth, which can be clearly related to each of the 17. The relationship between the SDGs and population is examined in-depth in our Sustainable Development Goals campaign

T'S NEW IN 2022?

The feadlines this year are not good. For the second consecutive year, progress has slipped back further, as "multiple and overlapping health and security crises have led to a reversal in SDG progress". While progress was slow pre-pandemic - too slow to reach the desired goals by 2030 - it was at least moving forward. The ongoing health situation and military conflicts have all exacerbated poverty, food shortages and access to affordable energy.

"On family planning specifically, the evidence shows that it is growth in levels of consumption driven by unsustainable development that influences carbon emissions and increases climate change, rather than population growth itself. Family planning is therefore not a climate mitigation strategy."

Despite these rocky times, the clear statement is that adherence and buy-in to the SDGs are of paramount importance as they "remain the roadmap for achieving sustainable development by 2030 and beyond."









In High-income Countries (HIC), progress has stagnated and "major challenges" remain to reach the SDG achievement when it comes to climate and biodiversity (Goals 13-15), although the outlook is more positive in relation to poverty (Goal 1), education (Goal 4) and industry (Goal 9). "These countries perform better on goals related to socio-economic outcomes and basic access to infrastructure and services", but "historically these countries are also responsible for the bulk of greenhouse gas emissions and climate change". Not only is this the case, but richer countries also have an adverse impact on the ability of others to reach their SDGs due to what the report calls international "spillover".

International spillovers, both positive and negative, occur when "one country's actions generate benefits or impose costs on another country that are not reflected in market prices and therefore are not 'internalized' by the actions of consumers and producers". Spillover contributes toward the overall SDG index score, but the negative effects tend to come from richer countries, which serves to undermine the efforts of others to achieve success against the 17 goals.

	NO POVERTY	ZERO HUNGER	GOOD HEALTH AND WELL-BEING	QUALITY EDUCATION	GENDER EQUALITY	CLEAN WATER AND SANITATION	AFFORDABLE AND CLEAN ENERGY	DECENT WORK AND ECONOMIC GROWTH	INDUSTRY, INNOVATION AND INFRASTRUCTURE	REDUCED INEQUALITIES	SUSTAINABLE CITIES AND COMMUNITIES	RESPONSIBLE CONSUMPTION AND PRODUCTION	CLIMATE	LIFE BELOW WATER	LIFE ON LAND	PEACE, JUSTICE AND STRONG INSTITUTIONS	PARTNERSHIPS FOR THE GOALS
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East and South Asia	0.7	→	0.7	0.7	• >	● ↑	. 7	0.7	0.7	0 0	$\bullet \rightarrow$	● ↑	0.7	$\bullet \rightarrow$	• -)	0.7	$\bullet \rightarrow$
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Latin America and the Caribbean	• 4		● 7	0.7	. 7	0.7	● ↑	$\bullet \rightarrow$	0.7		0 7	$\bullet \rightarrow$	个	$\bullet \rightarrow$	• -)		$\bullet \rightarrow$
Middle East and North Africa	$\bullet \rightarrow$	$\bullet \rightarrow$	● 7	→	•	• 1	● 7	0.7	0.7			● 个	0.7	$\bullet \rightarrow$			$\bullet \rightarrow$
Oceania	$\bullet \rightarrow$	•+	$\bullet \rightarrow$	$\bullet \rightarrow$	•	●→	$\bullet \rightarrow$		$\bullet \rightarrow$				• 1	7	0-)		$\bullet \rightarrow$
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Small Island Developing States	$\bullet \rightarrow$	$\bullet \rightarrow$		→	0 ->	•→		0 ->		• ->		$\bullet \rightarrow$	0.7	7			0 ->
Sub-Saharan Africa	$\bullet \rightarrow$	•	$\bullet \rightarrow$	$\bullet \rightarrow$	•	•	$\bullet \rightarrow$	0 7	$\bullet \rightarrow$	• •	$\bullet \rightarrow$	• 1	● ↑	$\bullet \rightarrow$	•	• •	$\bullet \rightarrow$
Low-income Countries	$\bullet \rightarrow$	• →	$\bullet \rightarrow$	• •	• ->	• ->	• ->	0.7	$\bullet \rightarrow$	0	• ->	• 1	• 1	•+	• -	• •	$\bullet \rightarrow$
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High-income Countries	• 1	● 7	0.7	• 1	. 7	• 1	. 7	. 7	•		. 7	0.7	$\bullet \rightarrow$	$\bullet \rightarrow$		07	0.7
High-income Countries	• SDe	achiev	ement	• 1	Challer	enges rem	ain	• !	● ↑ Significan Stagnatir	t challe			Majo	● → or challer	nges rer		72





Approximately 40 percent of the European Union's carbon footprint relating to its consumption of good and services takes place in other countries." Significant challenges" also remain on responsible consumption and production in HICs (Goal 12), a key area driving spillover, and indicative of a lack of commitment to significant change where it needs to be shown. It also appears any temporary environmental gains made during restrictions imposed due to the pandemic were quickly reversed once those restrictions were lifted. If we drill down a little further, Finland comes out on top of the SDG index, meaning it is making the most progress, closely followed by three other Nordic countries – Denmark, Sweden and Norway. Perhaps unsurprisingly, Nordic countries are also said to be the happiest countries in the world, according to the latest World Happiness Report. Overall, HICs are closer to achieving their targets, but it's clear that no country is close to meeting all 17 goals.











125,000

Employee Volunteer Hours

in 2017 to community causes, including foodbanks and hunger task forces - Our innovative refrigeration technologies improve energy efficiency and reduce food waste in the cold chain

80% reduction

possible in water consumption using our BlueStream Hybrid Cooling System in power plants, data centers and district cooling systems

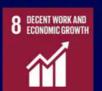


Women in Techno

Our STEM Leadership Program supports K-12 education in science, technology, engineering and mathematics - Our Women in Technology internship program encourages young women to advance their education and careers in

In 2017, we launched the "Next Chapter" program for women in STEM fields who are returning to the workforce after a two- or more-year break in their





\$5.029.250

Donated to United Way in 2017



Partnered with the World Resources Institute as industry co-convener of the Sustainable Energy for All Building Efficiency Accelerator which has educated 1000's of individuals in over 120 countries and supported policy and project development in

Cities

in Philanthropic Contributions in 2017

In the areas of social services, education, arts, environment and health, including giving \$500,000 annually to the Red Cross for disaster relief



increase

in energy

productivity

since 2002 across our global

We are the first U.S. signatory to the EP100 initiative and we achieved our U.S. Department of Energy Better Plants Challenge 25% energy intensity reduction goal across all U.S. industrial facilities three years early in 2016

200

fire safety devices

installed in South Africa to protect more than 30,000 people against slum fires

Our Asia Pacific Headquarters in Shanghai is the first "triple certified" green building in China





As the world's largest recycler of vehicle batteries, we launched the Responsible Battery Coalition in 2017 to promote the responsible lifecycle management of batteries with all chemistries

8,000 **Batteries** Recycled Every Hour

42% Carbon

Intensity Reduction

across our global operations since 2002

We have helped our customers save more than 26.4 million metric tons of CO2e through Energy Savings Performance Contracts since 2000

Global **Partnerships**

We are a Delivery Partner for the Sustainable **Energy for All** Initiative participating in the Building Efficiency, District Energy, Industry

Efficiency Accelerators and the Cooling for All initiative

17 PARTNERSHIPS



We also helped start the Global **Battery Alliance** with the World **Economic Forum**









SHOW ME THE MONEY

The report also points to a need for a global plan to finance the SDGs if they are to be successful. The six areas they suggest focusing spending on are education, health systems, zero-carbon energy, sustainable food, sustainable infrastructure and universal digital services. It is also suggested that while governments have been happy to pay lip service to the SDGs, few have actually committed sufficiently from a policy and budgetary perspective. Only a third of the 61 surveyed governments mention the SGDs in their latest official budget document and only half of those included them in a dedicated section or budget line. Policy buy-in has varied, but among the G20 member states, the United States, Brazil, and the Russian Federation are showing the least support for the SDGs. Conversely, the Nordic countries, Argentina, Germany, Japan and Mexico are all showing high levels of support. Heads of state will convene in New York in September 2023 to discuss the SGDs as we arrive at the halfway point between their 2015 creation and the stated 2030 goal. It's a meeting that only takes place every 4 years, and in advance of that meeting the report highlights the importance of:

"restoring and accelerating SDG progress in all countries, including the poorest and most vulnerable, should be a major priority of recovery plans and reforms to the international development finance system."





STUDENTS CORNER



CURRICULAR ACTIVITES

- Topper Details
- NPTEL Certificates
- Internship Certificates
- Seminars/Webinars Attended Certificates
- Innovation Manufacturing Practices
- International Conferences Attended

EXTRA CURRICULAR ACTIVITIES

- NCC Certificates
- Outreach Activities
- Department Cultural Activities



TOPPER DETAILS



Mr Harishkumar M (20114023) CGPA - 9.77 (upto III Semester)



Mr Pragadeshwar Babu M V (19114040) CGPA - 9.59 (upto V Semester)



Mr Bhuvaneswaran B (72071114014) CGPA - 8.90 (upto I Semester)

Ms Nivetha V

(72071114043)

CGPA - 9.05

(upto I Semester)



Ms Kanagalakshmi R (20114027) CGPA - 9.65 (upto III Semester)



MR Gokul Jothi R (19114011) CGPA - 9.53 (upto V Semester)



Mr Ragulsangeerthian
S
(72071114046)
CGPA - 8.90
(upto I Semester)



Mr Venkatesh T (20114053) CGPA - 9.58 (upto III Semester)



Ms Sugashini K (19114051) CGPA - 9.41 (upto V Semester)



Mr Ihlas Ahamed M J (72071114025) CGPA - 8.80 (upto I Semester)



Mr Muhammad Roshan A K (20114031) CGPA - 9.53 (upto III Semester)



Mr Karthick L (19114021) CGPA - 9.33 (upto V Semester)



Mr Adwaith B R (72071114003) CGPA - 8.65 (upto I Semester)



Ms Abisha J (20114005) CGPA - 9.51 (upto III Semester)



Ms Kirubashini E (19114023) CGPA - 9.28 (upto V Semester)







Students Corner Continuous Learning



₩ NPTE	L Onli	ne Ce		cati	on [
	This certifica	te is awarded to			
	for successfully of	OJA K ompleting the cou	rse		
w	aste to Enei	gy Convers	ion		
w	th a consolidated s	core of 61	%		
Online Assig	gnments 16.67	25 Proctored	Exam	44.39/75	
Total numi	per of candidates co	rtified in this cou	rse: 677		
Em					Priti Maheshwani
Prof. Sanjeev Manhas Coordinator, Continuing Education Centre IIT Roorkee	Jan-Ma (8 week c				Prof. Priti Maheshwari NPTEL Coordinator IIT Roorkee
Indian Institute of Technology Roork	ee				swayam
Roll No:NPTEL22CH05S44050009		9	To validate	and check s	cores: https://nptel.ac.in/noc

Ms POOJA K of II year Chemical Engineering obtained a Elite certificate in NPTEL Online Course by completing Waste to Energy Conversion with 61% Marks



Mr SREEJITH R of II year Chemical Engineering obtained a Elite certificate in NPTEL Online Course by completing Waste to Energy conversion with 45% Marks



IICHE MEMBERSHIP - STUDENTS



Dr H. L. Roy Building Raja SubodhMullick Road

KOLKATA - 700 032 Phone: (033)-2414 6670, 2412 9314



Signature of the Applicant:



Dr H. L. Roy Building Raja SubodhMullick Road KOLKATA - 700 032 Phone: (033)-2414 6670, 2412 9314

	Em	ail: iichehq@gn	nail.com,Websi	te: www.iiche.org	<u>z.in</u>				
IICH	APPL (Only Undergraduate E/AICTE and candidat	es enrolled for As	ering Students of	Institutions recogn					
1. NAME:				MRS SAFN	IA KA				
2. UNDERGRADI	JATE CLASS:			2ND YE	AR				
Chemical Engine	ge of Engineering and ering, , Othakkalmand , Chettipalayam, Coim	lapam,			iniampara(P.O), Peechi Pin Code- 680652				
Landline Office:	0422-424242	4	Mobile: Residence: 8304826691						
Email: Office			Email: Personal: safnasamad2001@gmail.com						
4. Address for Co	ommunication:(Tick) Residence:	Institution:	✓					
5. Date of Birth:	08-11-2001	6.Gender:	Female	7. Nationality:	India				
	of Admission to the Month: Sept Year:	bachelor degree 2020	programme in Ch	emical					
9. Expected com	pletion date of the	UG programme	: Month:	May Year:	2024				
10. Area of Inter	est: Petroleum R	efinery Engine	ering & Petroc	hemicals					
11. Student Chapte	r/Regional Center:		CIT-SC, C	oimbatore / Coi	mbatore				
favour of "INDIA	ETAILS: Compoundir N INSTITUTE OF CH on ID:- 214612865	EMICAL ENGINE	ERS" payable at	t Kolkata	t is to be made in				
	est that the particulars giv e Indian Institute of Chem				ee to abide by the Constitutio of Chemical Engineering				
Date:	Signature of t		-						



INDIAN INSTITUTE OF CHEMICAL ENGINEERS Dr H. L. Roy Building Raja SubodhMullick Road KOLKATA - 700 032

Phone: (033)-2414 6670, 2412 9314

APPLICATION FORM FOR STUDENT MEMBERSHIP
(Only Undergraduate Chemical Engineering Students of Institutions recognised by
IIChE/AICTE and candidates enrolled for Associate Membership Examination conducted by
IIChE/AICTE are eligible)

(Only Undergraduate I IIChE/AICTE and candidate	Chemical Engine es enrolled for A		Institutions recogn				
1. NAME:			MR SRIDH	AR J K			
2. UNDERGRADUATE CLASS:			2ND YE	AR			
 ADDRESS: (a) Institution: Hindusthan College of Engineering and Chemical Engineering, Othakkalmanda Malumichampatti, Chettipalayam, Coimb Nadu, Pin Code- 641032 	(b)(Permanent) Residential: 1/32, AD Street, Thumbalam, Thumbalam (P.O), Musiri, Trichy, Tamil Nadu, Pin Code-621211						
Landline Office: 0422-4242424	Mobile: Residence: 6369453796						
Email: Office	Email: Personal: sridharjayabalan0507@gmail.com						
4. Address for Communication:(Tick)	Residence:	Institution:	~				
5. Date of Birth: 07-11-2003	6.Gender:	Male	7. Nationality:	India			
8.Month and Year of Admission to the b Engineering: Month: Oct Year:	achelor degree 2020	programme in Ch	emical				
9. Expected completion date of the U	JG programme	e: Month:	May Year:	2024			
10. Area of Interest: Petroleum Re	afinery Engine	eering & Petroo	hemicals				
11. Student Chapter/Regional Center:		CIT-SC, C	oimbatore / Coi	mbatore			
 PAYMENT DETAILS: Compounding favour of "INDIAN INSTITUTE OF CHE Transaction ID:- 2145715826 	MICAL ENGIN	EERS" payable at	Kolkata	nt is to be made in			
DECLARATION BY THE APPLICANT: I, the undersigned, attest that the particulars gives and the Bye-laws of the Indian Institute of Chemic Bachelor Degree programme.		agree to inform IIChE	the date of completion				
		J.K.					



INDIAN INSTITUTE OF CHEMICAL ENGINEERS Dr H. L. Roy Building Raja SubodhMullick Ro

Phone: (033)-2414 6670, 2412 9314



	En	naii: iicnenq@gn	nail.com,webs	ite: www.iicne.org	alli			
	only Undergraduat	tes enrolled for As	ering Students o	EMBERSHIP Institutions recogn ship Examination co				
1. NAME:				MR ANJAN	A DAS			
2. UNDERGRADUA	TE CLASS:			2ND YE	AR			
ADDRESS: (a) Institution: Hindusthan institute of engineering and technology , Chemical , Malumichappatti , Othakalmandabam, Colimbatore , Chettipalayam, Colimbatore , Tamil Nadu, Pin Code-641020			(b)(Permanent) Residential: Cheloor, Irijalakuda, Irijalakuda , Thrissur , Kerala, Pin Code-680121					
Landline Office:			Mobile: Residence: 6003794729					
Email: Office			Email: Personal: anjanadas014@gmail.com					
4. Address for Com	munication:(Tick	Residence:	✓ Institution:					
5. Date of Birth:	05-08-2001	6.Gender:	Female	7. Nationality:	India			
8.Month and Year of Engineering: Mo	f Admission to the nth: Nov Year:	bachelor degree 2020	programme in C	hemical				
9. Expected compl	etion date of the	UG programme	: Month:	Oct Year:	2024			
10. Area of Interes	t: Chemistry,C	Chemical Proce	ss principles					
11. Student Chapter/F	legional Center:		Coimbato	re / Coimbatore				
12. PAYMENT DETA favour of "INDIAN Transaction		IEMICAL ENGINE	ERS" payable a	it Kolkata	t is to be made in			
DECLARATION BY TH	HE APPLICANT: that the particulars given dian Institute of Chen	ven above by me are t	rue. If elected to Stu	ident Membership, I agri	ne to abide by the Constitution of Chemical Engineering			



82 Students have successfully registered and become a member of Indian Institute of Chemical Engineers (IIChE)



IICHE MEMBERSHIP - STUDENTS



Proceedings - SRISHTI 2022

Obstacle Sensor for the Disabled

S.Ragulasangeerthian, M.J.lhlas Ahamed, B. Mahalakshmi Hindusthan College of Engineering and Technology, Othakaalmandapam, Coimbatore. kogilavant.eng@hicet.ac.tn

Abstract: The obstacle sensor caters its major contribution towards helping the disabled under every circumstance. The obstacle sensor is situated in neck (as a Neck band — completely sealed and insulated) which proves to be an advantage for the handicapped people (specifically — blind people) to acknowledge their surroundings with the help of the sensor. The obstacle sensor is highly beneficial and reliable to the disabled who travel alone in night, as the indication from the sensor alerts the user about the surroundings. Hence the dependence of the handicapped over other people is substantially reduced.

In this modern era, handicapped people (disabled) face several issues in the society. They are many practical difficulties in their day to day life, as they are not independent and always depend on someone for their survival. This project mainly focuses on people with Visual impairment and it highly benefits them.

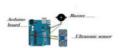
- Lack of independence in their day to activities
 Unable to sense their surroundings

- Safety threats
 They are more prone to accidents because of their inability to perceive their circumstances

Obstacle sensor (Neck band):

An obstacle sensor is a device which is used in detection of objects (obstacles) and alerts the person with a

An obstacle sensor is a device which is used in detection of objects (obstacles) and alerts the person with a buzzer sound. Once the buzzer sound connect buzzer sound. Once the buzzer sound connect buzzer sound. Once the buzzer sound connect so the sensor with the obstacle is avoided. It simply works by sending an ultrasonic pulse out at 40 kHz which travels through the air and if there is an obstacle or object, it will bounce back to the sensor. By calculating the travel time and the speed of sound, the distance can be calculated. Ultrasonic sensors are the best solution for the detection of clear objects, for presence detection, ultrasonic sensors detect objects regardless of the color, surface, or



no board: This micro controller provides necessary commands for the working of individual components in the circuit. Ultrasonic sensor: It is connected to the arduino board and when it senses an obstacle it emits UV ravs that hit

the obstacle and returns back to the sensor and due to which Buzzer emits sound of audible frequency.

Buzzer: This component plays a major role in supporting the individual by alerting him/her with the buzzer



PROCEEDINGS -SRISHTI 2022

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

KOTTAYAM, KERALA | www.saintgits.org







82 Students have successfully registered and become a member of Indian Institute of Chemical Engineers (IIChE)



On 15 to 16 March 2022

Mr.Senthil Vel. V P

has participated in ICSSR

Sponsored seminar on AzadiKa

Amrit Mahotsav:Self-Reliant

India For The Success Of

Independence 2.0 organized by

Department of Electronics And

Communication Engineering

On 15 to 16 March 2022

Mr.Gowtham.B
has participated in ICSSR Sponsored seminar on AzadiKa Amrit
Mahotsav:Self-Reliant India For The Success Of Independence 2.0
Department of Electronics And Communication Engineering







Internship Certificates

https://drive.google.com/folderview?id=1-PSWDVP4YTXzkN jjNLVhd5gONImR7mn





दि फर्टिलाइज़र्स एण्ड केमिकल्स ट्रावनकोर लिमिटेड THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED

FR-FTDC-CFRT-IP/277/2022

09.08.2022

CERTIFICATE

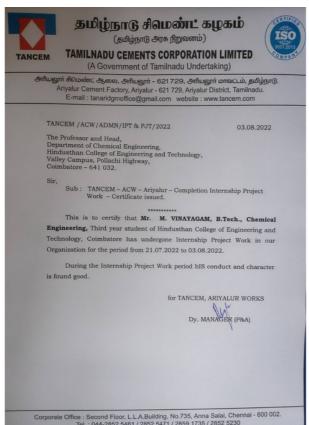
Certified that Mr. AGNAL JOHN, student of B.Tech Chemical, Hindusthan College of Engineering & Tech, Coimbatore has successfully completed his Internship in FACT, Udyogamandal during the period from 27.07.2022 to 09.08.2022

We wish the student all the best in his future endeavors



Kilmeny Antony K D Engineer (Trg&Dev), FTDC, Udyogamandal

Scanned by TapScanner









हिन्दस्तान ऑर्गेनिक केमिकल्स लिमिटेड HINDUSTAN ORGANIC CHEMICALS LIMITED

पास्त सरकार का उद्यम A Govt. of India Enterprise) अम्बलमामाल-682 302, एराणाकुलम जिला, केरल, भारत AMBALAMUGAL -082 302, ERNAVALUM DIST., KERALA, INDIA दूरोगाप Phone: 0484-2720893, योच Web. www.hoclindia.com ई-मेल e-mail : kochi@hoclindia.com CIN No. L 99999MH1960GO1011895

P&A/TRG/CERT-PROJ/2022/52

दिनांक DATE: 05.08.2022

प्रमाणित किया जाता है कि श्री 💈 पी शालूब अहम्मेद, बी टेक (केमिकल इंजीनियरिंग) छात्र, हिंदुस्तान कॉलेज ऑफ इंजीन्यरिंग एंड टेक्नॉलजी, कोयपत्तूर 21.07.2022 से 05.08.2022 तक की अवधि के दौरान हमारे उत्पादन विभाग में इंटर्नशिप प्रशिक्षण किया है।

Certified that Mr. E.P SHALOOB AHAMMED, B.Tech (Chemical Engineering) student of *Hindusthan College of Engineering and Technology, Colmbatore* has done his Internship Training in our Production Department during the period from 21.07.2022 to 05.08.2022.



(एन वी रविदेव N.V RAVIDEV) महा प्रबन्धक (कार्मिक एवं प्रशासन) GENERAL MANAGER (P&A)

निगमित कार्यालय : 4 वाँ तल, वी टाइम्स स्क्वायर , सेक्टर 15 , सीबीडी बेलापुर, नवी मुंबई -400614 Corporate Office: 4th Floor, V Times Square, Sector 15, CBD Belapur, Navi Mumbai - 400 614 Facebook: fb.me/hoclindia; twitter.com/organic. ltd





EXTRACURRICULAR ACTIVITIES - STUDENTS

L/CPL Devanand S (20114020) / TN21SDA845804

Combined Annual Training Camp Cum Republic Day Camp Selection at Hindusthan College of Engineering and Technology, Coimbatore from 26.07.2022 to 04.08.2022.

Combined Annual Training Camp Cum Republic Day Camp Selection - I at RVS Technical Campus, Coimbatore from 13.08.2022 to 20.08.2022.

Combined Annual Training Camp Cum Republic Day Camp Selection - I at Sri Narayana Guru College, Coimbatore from 11.07.2022 to 20.07.2022.









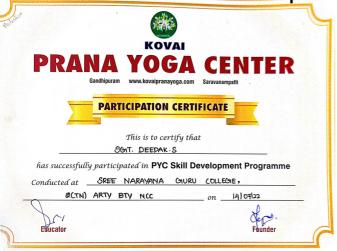


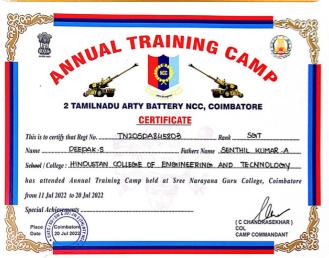


EXTRACURRICULAR ACTIVITIES - STUDENTS



SGT Deepak S (20114019) / TN20SDA845803















EXTRACURRICULAR ACTIVITIES - STUDENTS



Innovations in Manufacturing Practices (IMP) 2022 - Final Round
Jadavpur University, Kolkata & Indian National Academy of Engineering



Mr Harishkumar M (20114023) Mr Sakthi Surya (20114041) Mr Senthilvel V P (20114042)

Out of 1000+ ideas "A PLace to Safeguard Luggage" selected in the top10 to present their idea in the final round.











Humanity Consumes 1.75 Times More Natural Resources than Earth Can Regenerate





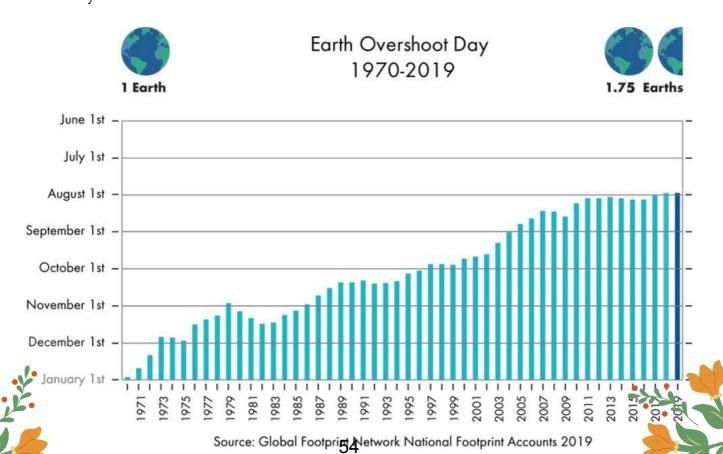
Rabat - A study carried out by the Global Footprint Network shows that humanity has depleted, in just 7 months, all of its share of natural resources such as water, soil, and clean air for the year. This means that the earth's population is currently consuming the resources of future generations. The Earth Overshoot Day fell this year on July 29, which is the earliest date ever, according to a report from the Global Footprint Network. The Overshoot Day marks the date when humanity's level of consumption exceeds the amount of natural resources the earth can regenerate.

The environmental group stated that humans have consumed 1.75 more natural resources in 2019 than the earth can regenerate. "Earth Overshoot Day falling on July 29 means that humanity is currently using nature 1.75 times faster than our planet's ecosystems can regenerate. This is akin to using 1.75 Earths," said Global Footprint Network in a statement. The group's calculations take into account the amount of water, land, fish, and forests we use as well as how much CO2 we're ing into the atmosphere.

The NGO added that this over consumption of natural resources will lead to climate change which could cause extreme weather events such as the heatwave Europe is currently experiencing. "The costs of this global ecological overspending are becoming increasingly evident in the form of deforestation, soil erosion, biodiversity loss, or the buildup of carbon dioxide in the atmosphere. The latter leads to climate change and more frequent extreme weather events," the report added.

Earth Overshoot Day

The first calculated Earth Overshoot Day was in 1986. The date has been falling earlier each year. In 1993, Earth Overshoot Day fell on October 21, in 2003 on September 22, and in 2017 on August 2. "We have only got one Earth this is the ultimately defining context for human existence. We can't use 1.75 (earths) without destructive consequences," said Mathis Wackernagel, founder of Global Footprint Network. The Global Footprint Network also analyses the amount of resources each country is individually using. Morocco impressively almost makes it to the end of the year before having its own overshoot day, estimated to be on December 16. Qatar, in comparison, burns through the replenishable resources for the year by February 11.





How many Earths do we need





	U.S.A.	5.0				
**	Australia	4.1				•
	Russia	3.2			(
	Germany	3.0				
+	Switzerland	2.8				
•	Japan	2.8				
	U.K.	2.7				
	France	2.7				
	Italy	2.7	3			
•	Portugal	2.5				
衡	Spain	2.5		3		
*)	China	2.2		4		
	Brazil	1.7				





India



0.7









Country Overshoot Days 2019

When would Earth Overshoot Day land if the world's population lived like...



The environmental group has launched a campaign, '#MoveTheDate', proposing solutions aimed at moving back the date to limit consumption to one-year of natural resources annually. Among the solutions, cutting CO2 emissions from burning fossil fuels by 50% would help to move back the date by 93 days. Emissions from burning fossil fuels contribute significantly to global warming. "The past does not necessarily determine our future. Our current choices do. Through wise, forward-looking decisions, we can turn around natural resource consumption trends while improving the quality of life for all people," says the group.

"While our planet is finite, human possibilities are not. The transformation to a sustainable, carbon-neutral world will succeed if we apply humanity's greatest strengths: foresight, innovation, and care for each other."

The good news is that this transformation is not only technologically possible, it is also economically beneficial and our best chance for a prosperous future."

The group recommends changes in 5 areas: "cities, energy, food, planet, and population."

Cities must be built to be more compact rather than sprawling, there must be a move towards renewable energy, and awareness must be spread over how we produce, distribute and consume food, says the group.

Finally, efforts must be put into conservation, reforestation, regenerative farming for the sake of the planet, and the population growth must be reduced through the empowerment of women and through family planning.

The NGO has also launched the #MoveTheDate Solutions Map where people are invited to share their solutions for a better sustainable future. Users can propose their solutions in the form of a comment and start a conversation with other conservationists.







Lift-off weight: 414 t Height

Propulsion : Solid, Liquid & Cryogenic Propulsion : Solid, Liquid & Cryo Payload mass : 2200 kg Payload mass : 4000 kg Orbit : Geosynchronous Orbit : Geosynchronous

: Solid & Liquid

Lift-off weight: 320 t

Propulsion : Solid & Liq Payload mass : 1860 kg Orbit : 475 km

Transfer Orbit

: 43.43 m Height

Lift-off weight: 640 t

Transfer Orbit

(1300 kg in Polar Orbit

Sun Synchronous

: 475 km

Geosynchronous **[ransfer Orbit]**





Sonam Wangchuk created the first prototype of 6 metres (20 ft) Ice Stupa by freezing 150,000 l (40,000 US gal) in Leh without any shade from the sun. Water was piped from upstream using gravity. Ladakh region experiences water shortage for the needs of agriculture during spring season which restricts cultivating period further in a subarctic climate area.



HINDUSTHAN

COLLEGE OF ENGINEERING AND TECHNOLGY

Valley Campus, Pollachi Highway, Coimbatore - 641 032, TamilNadu, INDIA.