>>> NEWSLETTER <<<

"CHEMERSATZ"

Department of Chemical Engineering

HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY

>>> ABOUT CHEMERSATZ

A student Association called CHEMERSATZ organizes a variety of technical events, including technical quizzes, workshops, poster presentations, and paper presentations. It brings together a large number of students from different universities to take part in events that "CHEMERSATZ" has prepared.

EDITOR:
Mr Dineshkumar M

STUDENT EDITOR(S)
Mr Ihlas Ahamed M J
Mr Harish Kumar M
Mr Patchamuthu M
Mr Bhuvaneshwaran B

<<< **CONVENOR**
Dr Seenuvasan M
Professor & Head
Chemical Engineering

>>> WHAT CHEMICAL ENGINEERS DO? <<<

DESIGN EQUIPMENT | ENERGY GENERATION | ASSESS PRODUCTION METHODS | ESTABLISH SAFETY PROCEDURES | TROUBLESHOOT PROBLEMS | MONITOR PRODUCTION PROCESSES

Vision of the Department

To nurture skilled and innovative chemical engineers with academic and research excellence for addressing global challenges and contributing to sustainable development with ethical values.

Mission of the Department

- To provide quality education focused on the scientific and technical aspects of chemical engineering.
- To empower students with essential research skills to develop innovative solutions for complex chemical engineering challenges.
- To inculcate social responsibility among the students for developing a sustainable society.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

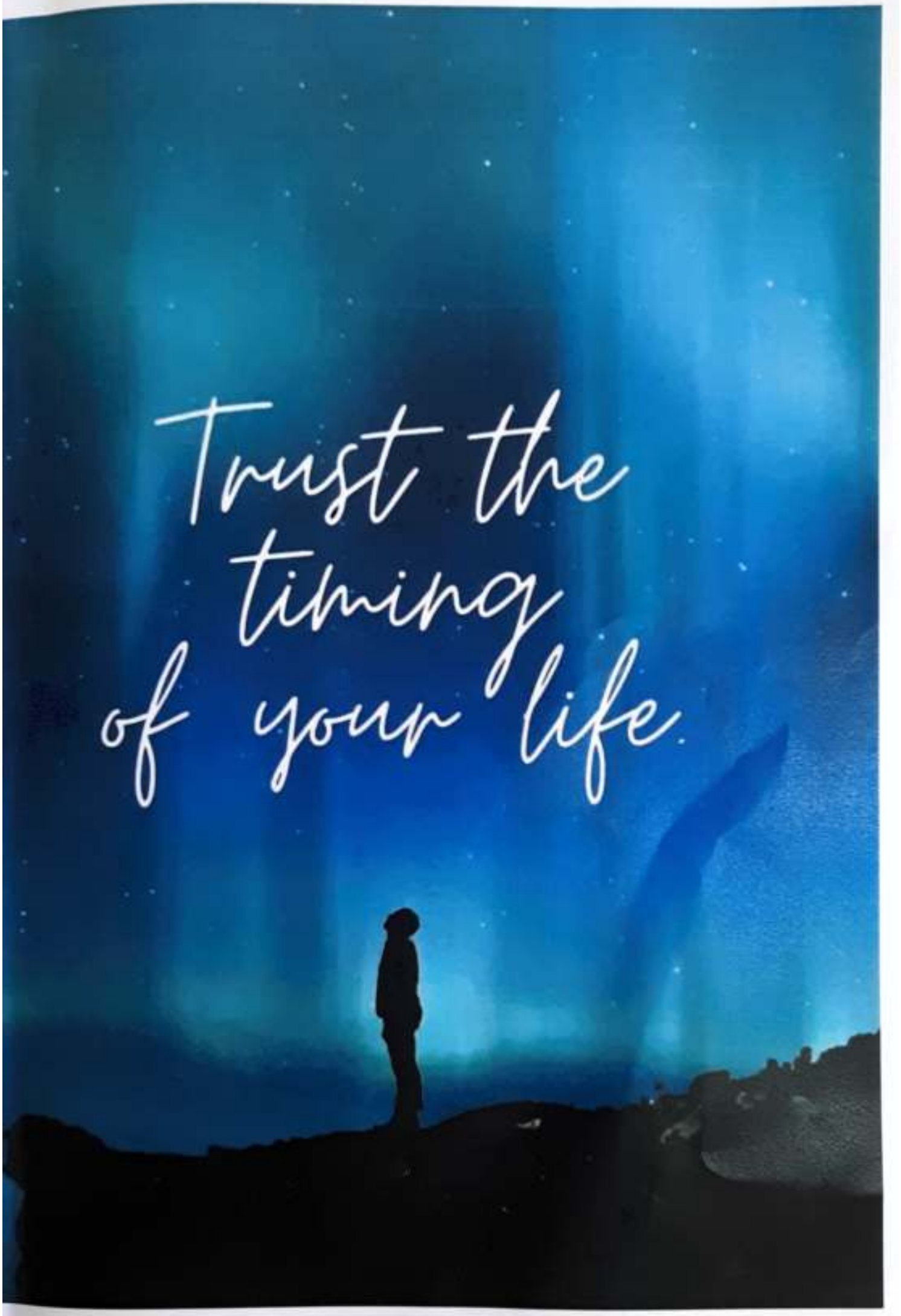
Graduates of Chemical Engineering will be able to:

- To excel in chemical engineering by securing impactful positions within the chemical and allied industries.
- Pursue continued life-long learning through professional practice, research and training programs in the field of chemical engineering.
- To empower graduates to become leaders in their fields of expertise and foster entrepreneurial skills, enabling them to contribute for economic development on both National and Global scales.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

Graduates of Chemical Engineering will be able to:

- Apply the knowledge of unit processes and operations in Chemical and Allied Industries.
- Implement the chemical engineering knowledge for process safety and ethically addressing the environment issues.


Trust the
timing
of your life.

>>> CHEMERSATZ <<<

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Events Organized

- 17.10.2023 - Inauguration - "Indian Institute of Chemical Engineers – Student Chapter"
- 17.10.2023 -CHEMERSATZ'2023
- 08.11.2023 - One day Industrial Visit-Hindusthan Pipes
- 17.11.2023 - Program on "Indian Constituent - Roles and Responsibilities of Citizen"
- 23.11.2023 - Program on "Beyond Borders - Embracing Diversity"
- 30.11.2023 - Program on "Gender Equity"

Inauguration - "Indian Institute of Chemical Engineers – Student Chapter"

ABOUT THE EVENT

The inauguration of the "Indian Institute of Chemical Engineers – Student Chapter" was a momentous occasion. The event brought together students, faculty members, and industry professionals to mark the inauguration of student chapter, aimed at fostering academic and professional growth in the field of chemical engineering.The ceremony commenced with a warm welcome and introduction, setting the tone for the significance of the occasion. Dignitaries, including academic leaders and industry experts, graced the event to provide their support and insights.

HICET

Hindusthan

College of Engineering and Technology

An Autonomous Institution

Valley Campus, Pollachi Highway, Coimbatore 641 032

Department of Chemical Engineering

Inauguration of "Indian Institute of Chemical Engineers (IIChE) - Student Chapter"

&

Seminar on "Innovations and the Importance of Unit Operation Skills in Cement Industry Processes"

Chief Guest

Mr ANTONYSAMY A

Process Engineer

Tamilnadu Cements Corporation Limited

Ariyalur

17.10.2023 | 10.00 AM

Ganga Hall

Patrons

Dr K Karunakaran, CEO

Hindusthan Educational Institutions

Dr J Jaya, Principal

Convener

Dr Seenuvasan M. Head

Co-ordinators

Prof. Ezhilan S, Assistant Professor

Mr Dineshkumar M, Assistant Professor

Cordially Invites you all

OUTCOME

Following the keynote address, the official inauguration of the student chapter took place, symbolizing the commitment to promoting excellence in chemical engineering education.

The event also featured an interactive session, provided students with a platform to engage with professionals, ask questions, and gain insights into the practical applications of their academic studies.

>>> 17 October 2023

Inauguration of "Indian Institute of Chemical Engineers – Student Chapter'2023 & Chemical Engineering Students Association'2023

IN THE PRESENCE OF

Mr Antonysamy A
Process Engineer
Tamilnadu Cements
Corporation Limited,
Ariaylur

DATE: 17.10.2023

>>> ABOUT THE EVENT

The inauguration of the "Indian Institute of Chemical Engineers Student Chapter" was a momentous occasion. The event brought together students, faculty members, and industry professionals to mark the inauguration of student chapter, aimed at fostering academic and professional growth in the field of chemical engineering.

The ceremony commenced with a warm welcome and introduction, setting the tone for the significance of the occasion. Dignitaries including academic leaders and industry experts, graced the event to provide their support and insights.

The highlight of the inauguration was the keynote address delivered by Guest. The speaker shared valuable insights into the current trends, challenges, and opportunities in the industry, inspiring the students to strive for excellence in their academic and professional pursuits.

Following the keynote address, the official inauguration of the student chapter took place, symbolizing the commitment to promoting excellence in chemical engineering education.

The event also featured an interactive session, provided students with a platform to engage with professionals, ask questions, and gain insights into the practical applications of their academic studies.

CHEMERSATZ'2023

Second National Level Technical Symposium

17 OCTOBER 2023

>>> TECHNICAL PRESENTATION

>>> POSTER PRESENTATION

>>> TECHNICAL QUIZ

>>> CONNEXIONS

>>> 17 October 2023

TECHNICAL PRESENTATION

Technical presentations, which usually center around a particular subject linked to scienc technology, or engineering, are an organized means of communicating complicated information t an audience. Simplifying and effectively communicating technical ideas in an engaging way is th aim.

IN THE PRESENCE OF

Mr Antonysamy A
Process Engineer
Tamilnadu Cements
Corporation Limited,
Ariyalur

POSTER PRESENTATIO

Mr. J. Sathish explained about Paper presentation rules an regulations to be followed in the event. Finally th judgement was done by external Mr. A . Antonysamy fro Tamilnadu cements corp.Ltd Ariyalur an Dr.B.Vijayakumar, Associate Professor, Department o Petrochemical Engineering, RVS college of Engineering an Technology.

CONNEXTIONS

Certain outcome of the event are,

- Mr. M. Dineshkumar explained about CONNEXIONS rules and regulations to be followed in the event.
- The event started with preliminary round of 5 questions for each team which is related to general knowledge and engineering words.
- Out of 15 teams short listed to 4 teams. Final round conducted for short listed team which related to disaster and chemical process. At last the participation certificates were distributed to all the participants who all participated in the event. The first place goes to Kongu Engineering College and second place goes to Nandha Engineering College.

TECHNICAL QUIZ

Certain outcome of the event are,

- Students understand and gain knowledge of specific technical topics.
- Students learnt fundamentals of Heat,Mass and Unit operations.
- Students gained knowledge on GATE technical question which is conducted on Technical quiz session.

TECHNICAL SEMINAR

Certain outcome of the event are,

- Highlights the significance of unit operation skills and their role in the cement manufacturing sector.
- It emphasizes the need for both traditional and innovative approaches in this industry to optimize production, improve efficiency, and meet environmental goals.
- Unit operation equipment used in the field of chemical engineering, making it a valuable learning experience for the students.
- Attendees gained exposure to industry best practices, safety protocols, and efficiency measures employed at the plant, providing them with real-world insights into their field of study.
- The event facilitated networking opportunities, allowing students to connect with industry professionals and potentially explore future career prospects or internships.

>>> 17 October 2023

TREE PLANTATION FOR SUSTAINABLE DEVELOPMENT

About the event

The tree planting by the chief guest, the De academics, Dean –Students affairs, De Innovations symbolized a commitment environmental awareness and sustainabili promoting the importance of green initiati within the college community.

The addition of new saplings on the colle campus not only contributes to environmen conservation but also enhances the aesthe appeal, creating a more pleasant and gre environment for students and staff.

This act of tree planting could serve as educational opportunity for students to lea about the significance of afforestation, the r of trees in mitigating climate change, and t importance of preserving the environment.

The saplings planted by the chief guest and t dean of academics can be seen as symbols growth and development, reflecting t aspirations and progress of the college as nurtures its students and academic programs

One day Industrial Visit- Hindusthan Pipes

>>> OUTCOME

The visit helps the students to understanding of various materials used in pipe manufacturing, such as steel, plastic, copper, and their respective properties, advantages, and limitations.

Students learn about the different methods used to manufacture pipes, including extrusion, welding, and seamless pipe production.

·Students gain knowledge about quality control and testing procedures for pipes to ensure they meet safety and performance standards.

Students will understand the factors that contribute to pipe corrosion and learn about maintenance and protection methods to extend the lifespan of pipes.

Students will understand the environmental impact of the pipe industry and the importance of safety measures in pipe manufacturing and installation.

>>> 17.11.2023

Program on "Indian Constituent – Roles and Responsibilities of Citizen"

OUTCOME

Dr Magudeswaran P N interacted with the students about Indian Constitution and explained about the Struggles faced by leader for getting independence. Interacted about the Implementation of India constitution, History of India constitution, History for country's name. He gives a detailed explanation about importance of learning India constitution. Given points on role and responsibilities and benefits of learning Indian Constitution. He finally concluded about the framework specifying fundamental principles of politics designates the structure, powers, procedures, and responsibilities of state institutions, and arranges out fundamental rights, the duties of citizens, and the directive principles.

HICET

Hindusthan

College of Engineering and Technology

An Autonomous Institution

Valley Campus, Pollachi Highway, Coimbatore-32

Department of Chemical Engineering

Organizes Seminar on

Indian Constitution : Roles and Responsibilities of Citizens

Dr MAGUDESWARAN P N
Professor & Dean Academics
Hindusthan College of Engineering and Technology

Patrons
Dr Karunakaran K, CEO
Hindusthan Educational Institutions.
Dr Jaya J. Principal
HiCET

Conveners
Dr Magudeswaran P N
Professor & Dean
Dr Seenuvasan M,
Professor & Head of Chemical Engineering

17.11.2023 | 03:30 PM
Technology Block, HiCET

Co-ordinators
Ms Induja P, AP / Chemical Engineering
Mr Dineshkumar M, AP / Chemical Engineering

Cordially Invites you all

Program on "Beyond Borders : Embracing Diversity"

Hindusthan
College of Engineering and Technology
An Autonomous Institution
Valley Campus, Pollachi Highway, Coimbatore 641 032.

Department of Chemical Engineering

Organizes Seminar on

Beyond Borders: Embracing Diversity

Dr Ramya J
Associate Professor
Department of Electronics & Communication Engineering,
Hindusthan College of Engineering and Technology, Coimbatore.

Venue
23 November 2023 | 11.00 am
Technology Block, HiCET

Patrons Dr K Karunakaran, CEO
Hindusthan Educational Institutions.
Dr J Jaya, Principal, HiCET

Convener Dr Seenuvasan M, Head

Co-ordinator
Ms Induja P & Mr Dineshkumar M
Assistant Professor

Cordially invites you all

>>> OUTCOME

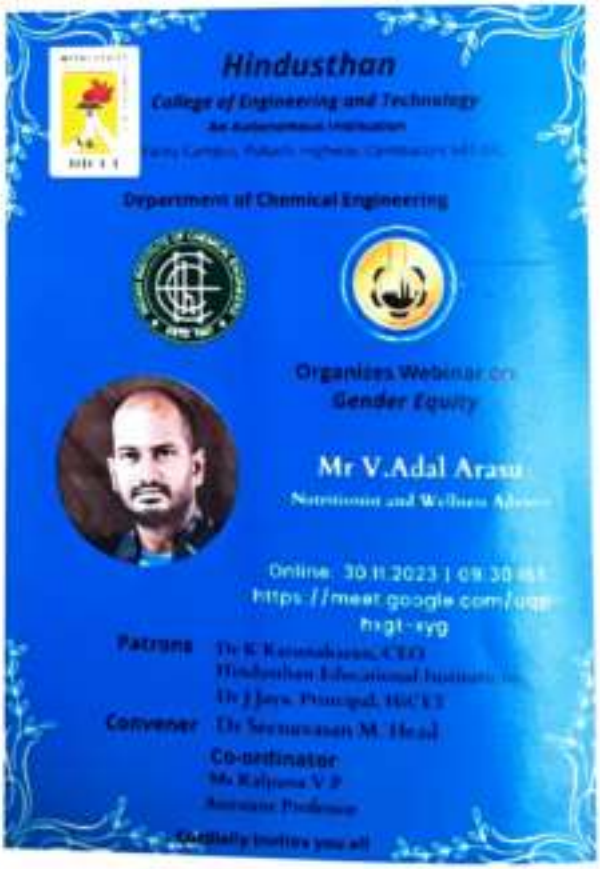
Dr Ramya J interacted with the students about the term diversity encompasses all differences among groups. It includes race, ethnicity, religion, culture, ability, sexual orientation, and socioeconomic status. Equity is about fairness. Cultural diversity refers to the differences among individuals based on their personal experiences and attributes. Multiculturalism is a term that is similar to diversity, but it focuses on development of a greater understanding of how power in society can be unequal due to race, gender, sexual orientation, power, and privilege. Also she explained about 7 ways to embrace multiculturalism in the classroom.

Remarks and Feedback on the Event :
Participants enthusiastically participated

Program on "Gender Equity"

About the event

- Mr.V. Adal Arasu, interacted with the students about Gender Equity. Gender equity is the process of being fair women and men.
- To ensure fairness, strategies and measures must often available to compensate for women's historical and soc disadvantages that prevent women and men from otherw operating on a level playing field. Equity leads to equality
- He concluded that, being inclusive from a gender langua perspective means speaking and writing in a way that do not discriminate against a particular sex, social gender gender identity, and does not perpetuate gender stereotype



Faculty Achievements

- Faculty Development Program
- Online Courses
- Conference
- Patent
- Publication
- Book Chapters
- Other Courses

Faculty Development Program


JCT College of Engineering and Technology

NBA SAAC A

CERTIFICATE

This certificate is proudly awarded to

NAGULDEV S

Hindusthan College of Engineering and Technology, Coimbatore has attended a Five Day's Virtual Faculty Development Program on "Green Technology and Sustainability-2023" from 24th to 28th July 2023, organized by Department of Petrochemical Engineering, JCT College of Engineering and Technology, Coimbatore -641105.

Mr.A.Rajkumar
Coordinator

Dr.S.Kavitha
Convener

Dr.S.Manoharan
Principal

The Faculty Development Program (FDP) organized by JCT College of Engineering and Technology, five day's Virtual Program held from July 24 to July 28, 2023. The theme of this FDP is "Green Technology and Sustainability-2023".

Mr. Naguldev S
Assistant Professor
ChemE

The Faculty Development Program (FDP) organized by JCT College of Engineering and Technology, five day's Virtual Program held from July 24 to July 28, 2023. The theme of this FDP is "Green Technology and Sustainability-2023".

Ms. Induja P
Assistant Professor
ChemE


JCT College of Engineering and Technology

NBA SAAC A

DEPARTMENT OF PETROCHEMICAL ENGINEERING

CERTIFICATE

OF PARTICIPATION

This certificate is proudly awarded to

INDUJA P

Hindusthan College of Engineering and Technology has attended a Five Day's Virtual Faculty Development Program on "Green Technology and Sustainability-2023" from 24th to 28th July 2023, organized by Department of Petrochemical Engineering, JCT College of Engineering and Technology, Coimbatore -641105.

Mr.A.Rajkumar
Coordinator

Dr.S.Kavitha
Convener

Dr.S.Manoharan
Principal

Online Courses

An online course on "CiteScore for earl career researchers" presented by Han Zijistra and issued by Elsevier Researche Academy on August 29, 2023.

Dr. Seenuvasan M
Professor and Head
ChemE

An online course on "Diversity in Peer Review" presented by Sanjana Balu and Shirin Heidari and issued by Elsevier Researcher Academy on August 29, 2023.

Dr. Seenuvasan M
Professor and Head
ChemE

An online course on "Funding Hacks for Researchers" presented by Christian DeFeo, Monik C Jimenez and Richard Wilder and issued by Elsevier Researcher Academy on August 30, 2023.

Dr. Seenuvasan M
Professor and Hea
Chem

Online Courses


Certificate of Completion

Seenuvasan M

An online course on "How to Turn Your Thesis into an Article" presented by Adolfo Cuevas and Cecily L Betz and issued by Elsevier Researcher Academy on August 29, 2023.

Dr. Seenuvasan M
Professor and Head
ChemE

An online course on "Mastering the Academic Desk Research Paper" issued by Alison educational company on August 28, 2023.

Dr. Seenuvasan M
Professor and Head
ChemE


Alison

Learner Achievement Verification

UNIVERSITY OF ALBERTA

COURSE CERTIFICATE

coursera

An online course on "Fundamentals of Reinforcement Learning" issued by University of Alberta on october 23, 2023.

Ms. Induja P
Assistant Professor
ChemE

Conference

Hindusthan College of Engineering and Technolog
(Autonomous) India
Hindusthan Institute of Technology
(Autonomous) India
Jointly with
Taylor's University
Kuala Lumpur, Malaysia

International Conference on Transforming Engineering Systems for Sustainability (TESS-2023)

29.11.2023 & 30.11.2023

PARTICIPATION CERTIFICATE

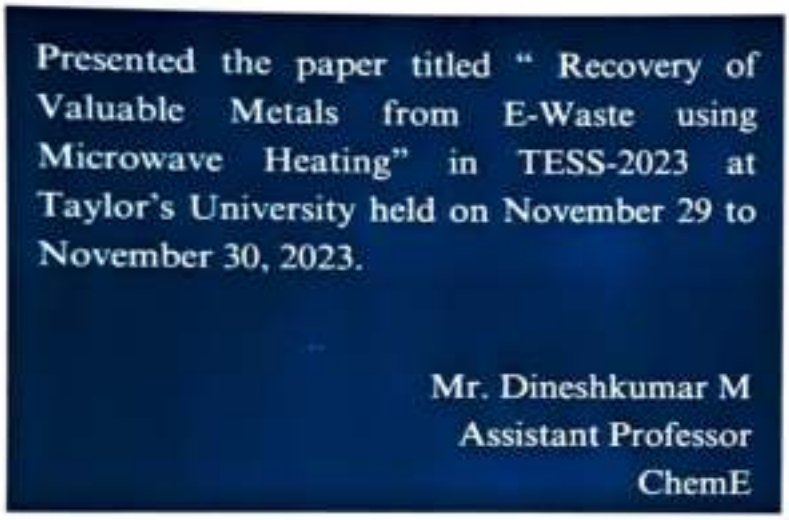
Proudly presented to Ms. P. Induja, Assistant Professor, (Chemical) Hindusthan College of Engineering and Technology coimbatore for presented the paper titled "EXTRACTION OF KERATIN FROM WASTEBIOMASS OF HUMAN HAIR AND EGGSHELL FOR THE FABRICATION OF BIOPLASTIC" in TESS-2023 at Taylor's University, KL, Malaysia Online Mode.

TESS 2023 CONFERENCE CHAIR
HINDUSTHAN EDUCATIONAL

TESS 2023 CONFERENCE CHAIR
TAYLOR'S UNIVARSITY,

Presented the paper titled " Extraction
Keratin from Waste Biomass of human ha
and eggshell for the Fabrication
Bioplastic" in TESS-2023 at Taylor
University held on November 29
November 30, 2023.

Ms. Induja
Assistant Professo
ChemE



Presented the paper titled " Recovery of Valuable Metals from E-Waste using Microwave Heating" in TESS-2023 at Taylor's University held on November 29 to November 30, 2023.

Mr. Dineshkumar M
Assistant Professor
ChemE

Hindusthan College of Engineering and Technol
(Autonomous) India
Hindusthan Institute of Technology
(Autonomous) India
Jointly with
Taylor's University
Kuala Lumpur, Malaysia

International Conference on Transforming Engineering Systems for Sustainability (TESS-2023)

29.11.2023 & 30.11.2023

PARTICIPATION CERTIFICATE

Proudly presented to Mr DINESHKUMAR M, Assistant Professor, (Chemical) Hindusthan College of Engineering and Technology, Coimbatore for presented the paper titled "RECOVERY OF VALUABLE METALS FROM E-WASTE USING MICROWAVE HEATING" in TESS-2023 at Taylor's University, KL, Malaysia Online Mode.

TESS 2023 CONFERENCE CHAIR
HINDUSTHAN EDUCATIONAL
INSTITUTIONS, INDIA

TESS 2023 CONFERENCE CHAIR
TAYLOR'S UNIVARSITY,

Hindusthan College of Engineering and Technology
(Autonomous) India
Hindusthan Institute of Technology
(Autonomous) India
Jointly with
Taylor's University
Kuala Lumpur, Malaysia

International Conference on Transforming Engineering Systems for Sustainability (TESS-2023)

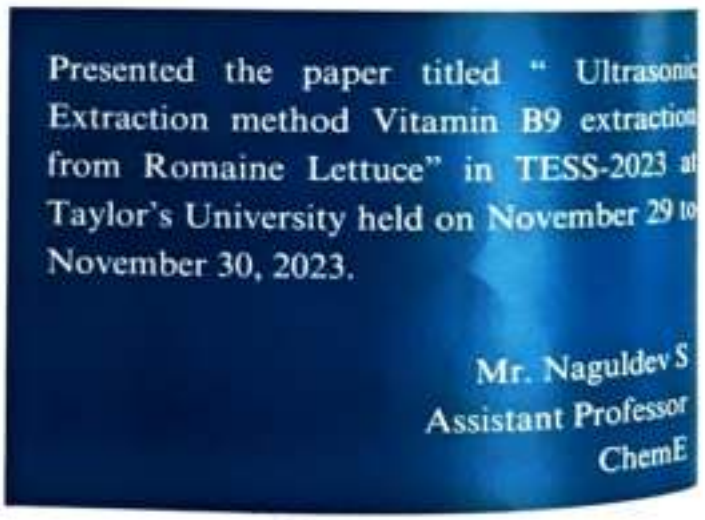
29.11.2023 & 30.11.2023

PARTICIPATION CERTIFICATE

Proudly presented to Mr. S. NAGUL DEV /ASSISTANT PROFESSOR/ CHEMICAL ENGINEERING / HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY for presented the paper titled "Ultra-sonication Extraction Method Vitamin B9 Extraction from Romaine Lettuce" in TESS-2023 at Taylor's University, KL, Malaysia - Online Mode

TESS 2023 CONFERENCE CHAIR
HINDUSTHAN EDUCATIONAL

TESS 2023 CONFERENCE CHAIR
TAYLOR'S UNIVARSITY,



Presented the paper titled " Ultrasonic
Extraction method Vitamin B9 extraction
from Romaine Lettuce" in TESS-2023 at
Taylor's University held on November 29 to
November 30, 2023.

Mr. Naguldev S
Assistant Professor
ChemE

Conference

Vel Tech High Tech

CERTIFICATE

OF PARTICIPATION

Dr. J. B. Veeramuthu

Dr. E. Kamalanesan

Presented the paper titled "B9 Vitamin extraction from Romaine Lettuce" in Vel Tech High Tech Engineering College held on September 14 to September 15, 2023.

Mr. Naguldev S
Assistant Professor
ChemE

Patent

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/06/2023

(21) Application No.202341042890 A

(43) Publication Date : 15/09/2023

(54) Title of the invention : B9 VITAMIN EXTRACTION FROM ROMAINE LETTUCE USING SOXHLET EXTRACTION METHOD

(51) International classification: A23L0033150000, A61K0008670000, G01N0033200000, A23K0020174000, A23L0033160000

(86) International Application No: NA
Filing Date: NA

(87) International Publication No: NA

(61) Patent of Addition to Application Number: NA
Filing Date: NA

(62) Divisional to Application Number: NA
Filing Date: NA

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Address of Applicant : NA
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(57) Abstract
Food stores now have an increasing variety of lettuce varietals, which are good providers of folates as leafy vegetables. Lettuce is one of the most extensively consumed vegetables on the planet. Millions of individuals worldwide, particularly women and children, are afflicted by several rare and other illnesses caused by iron and folic acid deficits. The sources of folic acid and

A patent has been published to the patentee for the invention entitled "B9 Vitamin Extraction from Romaine lettuce using Soxhlet Extraction Method". It has been Published on September 15,2023

Mr. Naguldev S
Assistant Professor
ChemE

Patent

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/06/2023

(21) Application No.202341042892 A
(43) Publication Date : 15/09/2023

(54) Title of the invention : PRODUCTION OF NATURAL HEALTH DRINK USING PALMYRA FRUIT

(51) International classification: A47J0019020000, A23L0002020000, A23L0002520000, A23L0002580000, G01N0030720000
(86) International Application No: NA
Filing Date: NA
(87) International Publication No: NA
(61) Patent of Addition to Application Number: NA
Filing Date: NA
(62) Divisional to Application Number: NA
Filing Date: NA

(71)Name of Applicant :
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10)Ms. A.N. AISHA BANNATH
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A patent has been published to the patentee for the invention entitled "Production of Natural Health Drink using Palmyra Fruit", It has been Published on September 15,2023

Mr. Sathish J
Assistant Professor
ChemE

Patent

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/10/2023

(21) Application No 202341066385 A

(43) Publication Date : 20/10/2023

(54) Title of the invention : EXTRACTION OF KERATIN FROM WASTE BIOMASS OF HUMAN HAIR AND EGGSHELL FOR THE FABRICATION OF BIO PLAST

(51) International classification : G01N0030504000, G01N0021359000, C08L0001000000, C07G0009000000, D01F0008020000

(86) International Application No : NA
Filing Date : NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number : NA
Filing Date : NA

(62) Divisional to Application Number : NA
Filing Date : NA

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(57) Abstract :
Plastic waste increases at every year also it can pollute the environment because the plastic cannot be biodegraded by microorganisms so [hill bioplastics are developed. Bioplastics are plastic materials made from renewable biomass assets along with vegetable fat and oils corn starch straw woodchips sawdust recycled unrah waste Some bioplastics are acquired by vinyol processing at once from natural biopolymers which include polysaccharides (e.g. Starch cellulose chitosan and alginate) and proteins. Human hair and egg shell are among the most inexpensive abundant and renewable protein sources. Main objective of this research is 10 synthesis bioplastic using keratin from human hair and egg shell Extracted keratin solutions mixed with glycerol to produce plastic films. The mixture was stirred under constant magnetic stirring at 60°C for 5 hours. The mixtures are then poured into aluminium weighing boat and dried in an oven at 60°C for 24 hours. According to the results, the scanning electron microscope (SEM)test Show whether the sample is good compatible samplehotpes without holes and edges. The difference in chemical composition was analyzed by Fourier transform infrared (FTIR) spectroscopy. The sample were also characterized by thermogravimetric analysis (TGA) X-Ray diffraction (XRD) to check the thermal and crystallinity properties. According to biodegradability tests, all bioplastic produced are biodegradable. Therefore the results Show it is possible to use the fibers as an alternative to fossil fuel products, that have the environment

A patent has been published to the patentee for the invention entitled "Extraction of Keratin from Waste Biomass of Human Hair and Eggshell for the fabrication of Bio Plast". It has been published on October 20,2023

Ms. Induja P
Assistant Professor
ChemE

Patent

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/10/2023

(21) Application No.202341066395 A
(43) Publication Date : 20/10/2023

(54) Title of the invention : EFFICIENT REMOVAL OF ACID AND BASE DYE FROM AQUEOUS SOLUTION USING A NANOCOMPOSITE COMPOSED OF SODIU

(51) International classification: C02F0001280000, C02F0101300000, B01G0011480000, B01J0020260000, C08G0073060000
(86) International Application No: NA
Filing Date: NA
(87) International Publication No: NA
(61) Patent of Addition to Application Number: NA
Filing Date: NA
(62) Divisional to Application Number: NA
Filing Date: NA

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(57) Abstract
Abstract ofthe invention (to be given along with complete specification page) The adsorption function of Polypyrrole can be increased by using two cheap and viable biological chemicals containing sufficient functional group to attain Polypyrrole based composite Polypyrrole Sodium Alginate and Benzoate (PPYSA- BN) Polypyrrole Sodium Alginate (PPY—SA) and Polypyrrole Benzoate (PPY— BN) are the three inverse coaE Polypyrrole based composite which were prepared by in -situ polymerisation of Pyrrole monomer along with Sodium Alginate and Benzoate PPY-SA-BN PPY-SA and PPY-EN nanoparticles with the diameters of 55nm 70nm and 218nm The nanoparticles are occurred with the mole ratio of pyrrole oxidant of H and the feed *+ of SA and EN of 10*+ the adsorption function of the three pyrrole composite of six dyes were tested The results of the analysis of PPY-SA-BN and PPY-SA composite conclude that the all acid and base dyes taken are adsorbed efficiently Congo red (CR) is a acid dye The adsorption efficiency of composites on CR were up to 99 3*+ and 95 4*+ if theinitial concentration of CR was 60 mgil-1 at the temperature of 30 C for 30 minutes Thus adsorption on CR is more quick than those of other PPY based nano particles The result proposed that the PPY-SA—BN composite performs the efficient adsorption reaction for dye due to effects of hydroxyl containing functional group SA nitrogen functional groups of PPY and functional group of BN Further adsorption process were possible and inferred Therefore low cost PPY based composite nanoparticles with controllable size and high dye adsorption efficiency was attained.

A patent has been published to the patentee for the invention entitled "Efficient Removal of Acid and Base Dye from Aqueous Solution using a Nanocomposite Composed of Sodiu". It has been published on October 20,2023

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Patent

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application: 04/10/2023

(21) Application No 202341066187 A

(43) Publication Date : 20/10/2023

(54) Title of the invention : SYNTHESIS OF ORGANIC ACID AND CATLAYST IN RECOVERY OF METALS FROM E-WASTE THROUGH ELECTROWINNING PRO

(51) International classification	C22B0007000000 G01D0021400000 G01N0021310000 C02F0101200000 H01L0004040000
(86) International Application No Filing Date	NA NA
(87) International Publication No	NA
(61) Patent of Addition to Application Number Filing Date	NA NA
(62) Divisional to Application Number Filing Date	NA NA

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9)Abhinand Sudan
Address of Applicant :Hindusthan College of Engineering and Technology Valley Campus, Pollachi Highway Coimbatore-641032 Tamil Nadu India

A patent has been published to the patentee for the invention entitled "Synthesis of Organic Acid and Catalyst in Recovery of Metals from E-Waste through Electrowinning Pro". It has been published on October 20,2023

Mr. Dineshkumar M
Assistant Professor
ChemE

Patent

पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. 390401-001

तारीख / Date 18/07/2023

पारस्परिक तारीख / Reciprocity Date*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो ULTRASONIC MILK ANALYSER से संबंधित है, का पंजीकरण, वर्ग 10-04 में 1.Dr. Vivek M S 2. Mr S. Naguldev 3.Mr.J.Sathish 4.Dr. P. Muthumari 5.Mr. N. Arunkumar 6.Dr.R.Vijayalakshmi 7.Ms. N.Umaiyambika के नाम से उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 10-04 in respect of the application of such design to ULTRASONIC MILK ANALYSER in the name of 1.Dr. Vivek M S 2. Mr S. Naguldev 3.Mr.J.Sathish 4.Dr. P. Muthumari 5.Mr. N. Arunkumar 6.Dr.R.Vijayalakshmi 7.Ms. N.Umaiyambika.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के उपबंधों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

A patent has been published to the patentee for the invention entitled "ULTRASONIC MILK ANALYSER". It has been Issued on October 12,2023

Dr. Vivek M S
Assistant Professor
ChemE

Publication

Contents lists available at ScienceDirect

Chemosphere

journal homepage: www.elsevier.com/locate/chemosphere

Conversion of solid wastes and natural biomass for deciphering the valorization of biochar in pollution abatement: A review on the thermo-chenical processes

Rishikesh Chormare [a,b], Pareshkumar G. Moradeeya [c], Tarini Prasad Sahoo [b,d], Muthulingam Seenuvasan [e], Gurunathan Baskar [f], Hitesh T. Sarvaiya [b,d], Madhava Anil Kumar [b]

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HIGHLIGHTS

- Sources, synthesis and modification

GRAPHICAL ABSTRACT

A Publication on the title " Conversion of Solid Wastes and Natural biomass for deciphering the valorization of Biochar in pollution abatement is available on online from August 10, 2023

Dr. Seenuvasan M
Professor and Head
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Book Chapter

CHAPTER

Priority metal pollutants and their toxicological effects in the ecosystem 12

Vivek Mariappan Santhi[1], Nagul Dev Selvanatrajan[1], Vijayalakshmi Rajadurai[2] and Seenuvasan Muthulingam[1]

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[2]*Department of Petroleum Engineering, Dhaanish Ahmed College of Engineering, Chennai, Tamil Nadu, India*

Chapter outline

CHAPTER

Removal of micropollutants from industrial wastewater using sequencing batch biofilm reactor 11

Vijayalakshmi Rajadurai[1], Vivek Mariappan Santhi[2] and Seenuvasan Muthulingam[2]

[1]*Department of Petroleum Engineering, Dhaanish Ahmed College of Engineering, Chennai, Tamil Nadu, India*

[2]*Department of Chemical Engineering, Hindusthan College of Engineering and Technology, Coimbatore, Tamil Nadu, India*

Book Chapter

Applied Biotechnology for Emerging Pollutants Remediation and Energy Conversion pp 77–93

Advancements on Biotechnological and Microbial Biodegradation of Textile Wastewater

Darshita Ketan Pandya, Madhava Anil Kumar ✉ & Muthulingam Seenuvasan

Nanohybrid Materials for Treatment of Textiles Dyes pp 179–201

Recovery and Removal of Textile Dyes Through Adsorption Process

Growther Lali ✉, V. Mahalakshmi, M. Seenuvasan & G. Sarojini

Chapter First Online: 21 September 2023

Other Courses


Connecting the Thoughts

CERTIFICATE

OF PARTICIPATION

Dr. Seenuvasan M

Department of Chemical Engineering

Hindusthan College of Engineering and Technology

Participated in "2 days Academic Writing Program" organized by Claspin Tech on 12 August 2023.

Dr. Seenuvasan M
Professor and Head
ChemE

Participated in the Workshop on "Python for Beginners" organized by Claspin Tech on 22 October 2023.

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Connecting the Thoughts

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Skill India

N.S.D.C

RCPSDC

Has Successfully cleared the assessment as Trainer with Grade 'B' for the Qualification pack of Chemical Effluent Treatment Plant Operator (RSC/Q7102)-v1.0 conforming to National Skill Qualification Level-4 and it was issued on 4 August 2023.

Mr. Dineshkumar M
Assistant Professor
ChemE

Other Courses

Has Successfully cleared the assessment a Trainer with Grade 'B' for the Qualificatio pack of Analytical Instrument Operator(Chemical & Petrochemical (RSC/Q7201)-v1.0 conforming to Nationa Skill Qualification Level-4 and it was issue on 22 August 2023.

Dr. Seenuvasan M
Professor and Hea
ChemE

Has Successfully cleared the assessment as Trainer with Grade 'B' for the Qualification pack of Chemical Manufacturing Plant Operator (RSC/Q7401)-v1.0 conforming to National Skill Qualification Level-4 and it was issued on 4 August 2023.

Mr. Sathish J
Assistant Professor
ChemE

Has Successfully cleared the assessment as Trainer with Grade 'B' for the Qualification pack of Analytical Instruments Operator(Chemical & Petrochemical) (RSC/Q7102)-v1.0 conforming to National Skill Qualification Level-4 and it was issued on 22 August 2023.

Ms. Kalpana V P
Assistant Professor
ChemE

Other Courses

Has Successfully cleared the assessment as Trainer with Grade 'B' for the Qualification pack of Chemical Storage & Handling Operator (RSC/Q7301)-v1.0 conforming to National Skill Qualification Level-4 and it was issued on 04 August 2023.

Mr. Naguldev S
Assistant Professor
ChemE

Has Successfully cleared the assessment as Trainer with Grade 'B' for the Qualification pack of Chemical Storage & Handling Operator (RSC/Q7301)-v1.0 conforming to National Skill Qualification Level-4 and it was issued on 04 August 2023.

Dr. Vivek M S
Assistant Professor
ChemE

Has Successfully cleared the assessment as Trainer with Grade 'B' for the Qualification pack of Chemical Manufacturing Plant Operator (RSC/Q7401)-v1.0 conforming to National Skill Qualification Level-4 and it was issued on 04 August 2023.

Mr. Balasubramani K
Assistant Professor
ChemE

Other Courses

Has Successfully cleared the assessment a
Trainer with Grade 'B' for the Qualificatio
pack of Chemical Effluent Treatment Plan
Operator (RSC/Q7102)-v1.0 conforming t
National Skill Qualification Level-4 and
was issued on 4 August 2023.

Ms. Induja P
Assistant Professo
ChemE

Students Corner

- Symposium
- Conference
- Online Courses
- Other Events

Symposium

Has participated in the Technical Symposium - TECHNOVISTA 2023 organised by Sri Eshwar College of Engineering held on September 8 and 9, 2023.

Ms. Vaishali B
II B.Tech ChemE

Has Presented a paper titled "Empowering Youth for a Sustainable Future" in the ICSSR sponsored two days National Seminar on Interweaving Sustainable Development Goals through National Service Scheme held during 3rd and 4th November.

Mr.Alten Rey V
II B.Tech ChemE

Has Participated in One day National Symposium On Advances in polymer Science and Technology(APST-2023) on 4th October 2023.

Ms. Charubala B
III B.Tech ChemE

Conference

Vel Tech High Tech

CERTIFICATE

OF PARTICIPATION

Dr. J. B. Veeramalini

Dr. E. Kamalanaban

Participated in Paper Presentation entitle "Synthesis of CO Doped ZnO for Biodiesel Production" in National Conference on Environmental and Sustainable Technologies held on 14th and 15th September 2023 in Vel Tech High Tech Engineering College.

Ms. Devadharshini S
III B.Tech ChemE

Participated in Paper Presentation entitle "Synthesis of CO Doped ZnO for Biodiesel Production" in National Conference on Environmental and Sustainable Technologies held on 14th and 15th September 2023 in Vel Tech High Tech Engineering College.

Ms. Manju Parkavi A
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Dr. J. B. Veeramalini

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Vel Tech High Tech

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Dr. J. B. Veeramalini

Dr. E. Kamalanaban

Participated in Paper Presentation entitle "Removal of Anti- Diabetic pharmaceutical" in National Conference on Environmental and Sustainable Technologies held on 14th and 15th September 2023 in Vel Tech High Tech Engineering College.

Ms. Rakendu K
III B.Tech ChemE

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Dr. E. Kamalaraban

Participated in Paper Presentation entitle "Removal of Anti- Diabetic pharmaceutical" in National Conference on Environmental and Sustainable Technologies held on 14th and 15th September 2023 in Vel Tech High Tech Engineering College.

Mr. Sayand Manoj
III B.Tech ChemE

Participated in Paper Presentation entitle "Removal of Anti- Diabetic pharmaceutical" in National Conference on Environmental and Sustainable Technologies held on 14th and 15th September 2023 in Vel Tech High Tech Engineering College.

Mr. Alby Manu
III B.Tech ChemE


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Dr. E. Kamalaraban


Vel Tech High Tech

CERTIFICATE

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Dr. E. Kamalaraban
Principal

Participated in Paper Presentation entitle "B9 vitamin extraction from romaine lettuce" in National Conference on Environmental and Sustainable Technologies held on 14th and 15th September 2023 in Vel Tech High Tech Engineering College.

Ms.Bhagi Suresh
III B.Tech ChemE

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Dr. J. B. Veeramalini

Dr. E. Kamalanaban

Participated in Paper Presentation entitle "B9 vitamin extraction from romaine lettuce" in National Conference on Environmental and Sustainable Technologies held on 14th and 15th September 2023 in Vel Tech High Tech Engineering College.

Mr. Ajul Thachanat
III B.Tech ChemE

Participated in Paper Presentation entitle "Graphene Oxide Nanosheets for Adsorption" in National Conference on Environmental and Sustainable Technologies held on 14th and 15th September 2023 in Vel Tech High Tech Engineering College.

Mr. Fahad K Mohammed Salim
III B.Tech ChemE

Vel Tech High Tech

CERTIFICATE
OF PARTICIPATION

Dr. J. B. Veeramalini

Dr. B. Sharathiraja

Dr. E. Kamalanaban

Online Course


NPTEL Online Certification

Petroleum Formation Evaluation

53 %

Online Assignments | Proctored Exam

swayam

Attended the NPTEL online course - petroleum Formation Evolution (12 week course) by indian institute of technology, kharagpur and cleared the exam with 53%

Ms. Devadharshini S
III B.Tech ChemE

Attended the NPTEL online course - petroleum Formation Evolution (12 week course) by indian institute of technology, kharagpur and cleared the exam with 48%

Mr.Harish K
III B.Tech ChemE


NPTEL Online Certification

Petroleum Formation Evaluation

48 %

Online Assignments | Proctored Exam

swayam


NPTEL Online Certification

Petroleum Formation Evaluation

47 %

Online Assignments | Proctored Exam

swayam

Attended the NPTEL online course - petroleum Formation Evolution (12 week course) by indian institute of technology, kharagpur and cleared the exam with 47%

Ms.Nandana Krishna T
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