



VSB ENGINEERING COLLEGE

AN AUTONOMOUS SYSTEM

NH 67, COVAI ROAD, KARUDAYAMPALAYAM
POST KARUR - 639001
(AN NBA ACCREDITED AND ISO 9001:2015
CERTIFIED INSTITUTION)

DEPARTMENT OF CHEMICAL ENGINEERING

DECEMBER - 2023 NEWSLETTER:

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CHAIRMAN'S MESSAGE

Mr. V.S.Balsamy, B.Sc., L.L.B., a leading luminary, has 31 years of bright standing in the field of law. He is the recipient of "Indira Gandhi Sadhbavana Award" from Global Economic Council, New Delhi. He was also honored with "The Best Humanitarian Award" in 2005. VSB Educational Trust was founded by him as the Founder-Trustee in the year 2000. He started V.S.B. Engineering College in Karur in the year 2002 and V.S.B. College of Engineering-Technical Campus in Coimbatore in the year of 2012. He, the Correspondent of VSB Group of Institutions, lays emphasis on "Hardwork". As he strongly believes that "HARD WORK IS THE KEY TO SUCCESS", it is conceived as the motto of the Institutions.

PRINCIPAL'S MESSAGE

The Department of Chemical Engineering was started in the academic year 2018-19 with an aim of promoting high quality education in the field of Chemical Engineering. The department has well equipped laboratory facilities and highly qualified faculty members having rich experience in teaching and industrial background. The department is aiming to transform itself into a center of excellence both in academic and research. The department provides a right kind of environment for the students to groom themselves for innovative and challenging near future

ABOUT THE DEPARTMENT

The department of Chemical Engineering is offering UG course with an intake of 60 students. It offers 4-year B.tech. Chemical Engineering course, and it became one of the most sought departments in the institute as from the year of starting the course the department is having full strength. The students of our department are good in both academics and in extra and co-curricular activities as well. The department of Chemical Engineering is one of the most important departments of the college. The department has highly qualified and dedicated faculty members who strive to produce competent professionals. They are who are abreast with the latest technology and are equipped with enterprising skills necessary for a designer, production, operation and process engineer. The department's professional program includes a deeper study of a number of engineering sciences students are introduced at the core curriculum level, experimental solution for physical problems, techniques and methods of design of systems relevant to the contemporary industrial world. Our students are provided a solid engineering education, with a focus on creativity and innovation and a strong ethical responsibility. The Chemical Engineering program prepares graduates with strong leadership qualities. These leadership qualities and the high technical standards of our program generate strong interest in the industries and employers across the region. To enhance the technical knowledge gained, department is arranging value added courses training related to Chemical Engineering for every student.

MESSAGES FROM HOD

On behalf of our faculty, staff, and students, I extend a warm welcome to the Department of Chemical Engineering at V.S.B. Engineering College, Karur. Chemical engineering is concerned with the economic design and operation of chemical industries. The discipline is broadening and new science and engineering encourages to develop more efficient, safer and environmentally sustainable technologies.

Chemical engineers combine mathematics, chemistry, physics, biology, and economics to tackle large-scale industrial problems by developing theories, advanced simulations, and experiments. In terms of products and processes, chemical engineers have played a major role in society over the years.

In the future, many new opportunities for chemical engineers will be opened up. Chemical industries now cover a wide range of applications.

VISION

To be a centre of excellence for development and dissemination of knowledge in Chemical Engineering for the Nation and beyond.

MISSION

Department of Chemical Engineering is committed to:

- Impart knowledge to students at all levels through a vibrant, dynamic and state of the art intellectual delivery to ensure the creation of a complete Chemical Engineer with a high sense of social responsibility and professional ethics.
- Synergize the efforts of the students and faculty to evolve innovative engineering practices and teaching methodologies
- Generate an environment of continuous learning and research.

PROGRAM EDUCATIONAL OUTCOMES (PEO)

- Graduate of Chemical Engineering program will: Exhibit professional competency in design and development of chemical products, Processes and equipment in chemical and allied industries.
- Perform research and development work by utilizing the experimental skills. Mathematical tools and applied software and simulation practices.
- Demonstrate interpersonal skills and leadership qualities and contribute to solution of multidisciplinary problems
- Contribute to national and global economic growth through continuous education and by following socially responsible practices

PAPER PUBLICATIONS

S. N O	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1	EXTRACTION OF THE BIODIESEL FROM THE MARINE WATER CHLORELLA VULGARIS MICROALGAE	Jeromeprasad J , Logeshwaran S , Manohar R , Selvakumar N , Mr.Anbu A	Chemical Engineering	International Journal of Engineering Technology and Management Sciences	2023	ISSN-2581-4621
2	CHEMICAL MODIFICATION OF BITUMEN FOR STABLE ROAD CONSTRUCTION	Surenthiran C , Velmurugan S , Vishwa B , Maathavraj VM , Mr.Gowrishankar R	Civil Engineering	International Journal of Engineering Technology and Management Sciences	2023	ISSN-2581-4621
3	Adsorption Studies Of An Activated Carbon (Prosopis Juliflora) To Remove Dye	HEMANTH SIVA M S , SIVASANKARAPANDI N , PRADEEPRAJA S , MUGESHRAAJ V , MR. R.GOWRISHANKAR , MS.S.GOWSALYA	Civil and Chemical Engineering	International Journal of Engineering Technology and Management Sciences	2023	ISSN-2581-4621

4	PREPARATION OF ACTIVATED CARBON USING WOOD SHELL APPLE	Dharshan S, Ranjith Kumar S, Sampath kumar K, A.ANBU	Chemical Engineering	International Journal of Research Publication and reviews	2023	ISSN - 2581 -7421
5	EXTRACTION OF PECTIN FROM ORANGE PEEL	Ezhil Madhan V, Muhammad Ansari M, rankith A, Mukilans	Chemical Engineering	International Journal of Scientific and Research Publications	2023	ISSN - 2250 - 3153
6	SYNTHESIS AND CHARACTERIZATION OF NICKEL CHLORIDE NANOPARTICLES USING MENTHA PIPERTIA	YUVARAJ S, HARIHARAN J, KULOTHUNGAN S, ASHOK KUMAR V, SARAVANAN S	Chemical Engineering	Advanced synthesis and catalysis	2023	ISSN - 2250 - 3153
7	PRODUCTION AND CHARACTERIZATION OF CUSTARD APPLE SEED EXTRACT FOR ITS UTILIZATION AS BIO-PESTICIDE	Subash.V , Sanjay.S , Logesh pandiyan. S , Saravanan.S	Chemical Engineering	Advanced synthesis and catalysis	2023	ISSN - 2250 - 3153

8	Extraction and Formulation of Perfume from Lemongrass Leaves	Lingesh.K , Sankaran arayanan .S, Veerapat hirakumar.K, Mr. Anbu.A	Chemical Engineering	International Journal of Research Publication and Reviews	2023	ISSN: 2582 - 7421
9	Process Parameters Analysis of Ethylene Glycol-Water and Air-Glycol System in Shell and Tube Heat Exchanger	R. Manikandan, S. Nandhini, R. Avanthika, , K. Shneka, S. Kowsalya	Chemical Engineering	International Journal of Scientific Research in Engineering and Management	2023	ISSN - 2582 - 3930
10	A Comparative Study on Acoustic Parameters of Porous Absorber of polyamide, polyester and polyurethane	R. Manikandan, R. Gowrishankar, S. Nandhini, R. Avanthika, , K. Shneka, S. Kowsalya	Chemical Engineering	International Scientific Journal of Engineering and Management	2023	ISSN - 2583 - 6129

INNOVATIVE ACTIVITIES

V.S.B. ENGINEERING COLLEGE, KARUR
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai
An ISO 9001:2015 Certified Institution
Accredited by NAAC, NBA Accredited Courses

Department of Civil and Chemical Engineering

Cordially invites you for the technical webinar on

PRODUCTION OF BIODIESEL FROM MARINE MACRO ALGAL BIOMASS

Resource Person

August 27th, 2022
At 11.00 AM

Through Online Mode

Dr.S.Renganathan
Professor,
Center for biotechnology,
ACTech,
Anna University Chennai-
600025

INSTITUTION'S INNOVATION COUNCIL

PRODUCTION OF BIODIESEL FROM MARINE MACRO ALGAL BIOMASS

Dr.S.Renganathan from ACTech, Anna University Chennai has conducted a webinar on the the topic “Production of Biodiesel from Marine Macro Algal Biomass” on 27th August 2022 in which the students of the department gained knowledge on marine macro algal biomass and biodiesel production process.

AN INSIGHT INTO POLLUTION PREVENTION

Er.M.Jeya Bharath has conducted a webinar on the the topic “An Insight into Pollution Prevention” on 02nd December 2022 in which the students of the department gained knowledge.

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DEPARTMENT OF CIVIL AND CHEMICAL ENGINEERING

"AN INSIGHT INTO POLLUTION PREVENTION"

INSTITUTION'S INNOVATION COUNCIL

Resource Person

Date & time
02.12.2022 &
10.30 AM

Seminar Hall

Er.M.Jeya Bharath
Assistant Manager-Production
Urea and utilities SPIC,
Tuticorin

Events
1. figure out
2. Treatise

NATIONAL Pollution Control DAY
QUOTES, MESSAGES, SLOGANS

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STUDENTS' COCURRICULAR ACTIVITIES

PARTICIPATIONS IN WORKSHOPS IN VARIOUS INSTITUTIONS

S. N O	NAME OF THE STUDENTS	BATCH	NAME OF THE INSTITUTION	TOPIC OF THE WORKSHOP	Date
1	Balasurya B	2020-2024	Excel Engineering College (Autonomous) Komarapalayam, Namakkal	Sustainable Applications of Green Concepts and Wastewater Treatment Methods	13.09.2023
2	Bavissriram S	2020-2024			
3	Ramki V	2020-2024			
4	Boopathi S	2020-2024			
5	Arun Kumar J	2020-2024			
6	Kamaleshwaran P	2020-2024	Anna University, Chennai	Technical Process safety	13.04.2023
7	Mohammed Darvesh P S	2023-2024		Aspen Plus	13.04.2023
8	Gnanasekar M	2023-2024		Aspen Plus	13.04.2023
9	Ragul T	2023-2024		Technical Process Safety	13.04.2023
10	Kowsalya S		Roever Engineering College, Elambalur Perambalur	Modelling & Simulation of Heat exchanger	24.03.2023
11	Sneka K				24.03.2023
12	Nandhini S				24.03.2023
13	Avanthika R				24.03.2023

PARTICIPATIONS IN PAPER PRESENTATIONS IN VARIOUS INSTITUTIONS

S.N O	NAME OF THE STUDENTS	BATCH	NAME OF THE INSTITUTION	TOPIC OF THE WORKSHOP	DATE
1	Hemanthsiva M S	2019-2023	Global Conference Hub	Adsorption studies of an activated carbon (prosopis juliflora) to remove dyes	29.04.2023 & 30.04.2023
2	Sivasankarapan di N	2019-2023	Global Conference Hub		29.04.2023 & 30.04.2023
3	Velmurugan S	2019-2023	Global Conference Hub	Chemical Modification of Bitumen for stable road construction	29.04.2023 & 30.04.2023
4	Surenthiran C	2019-2023	Global Conference Hub		29.04.2023 & 30.04.2023

INDUSTRIAL VISITS



JAI SRI MARUTHI COIR INDUSTRIES , NAMAKKAL

Pre-final year students from the Department of B.tech Chemical Engineering attended the industrial visit to “**Jai Sri Maruthi Coir Industries**” in Namakkal. Here, the coconut coir is processed into value added products like Coir Fiber Sheet, Coir Pith and etc., Students learned many things about the processes in the industry.



RAINBOW PIGMENTS, THENI

Second-year students from the department of B.tech Chemical Engineering attended the industrial visit at “**Rainbow Pigments**” in Theni. Here the students learned about the process of preparing dyes from the natural resources known as rainbow pigment. Also, the students gained a knowledge of the industrial processes.

NATIONAL LEVEL TECHNICAL SYMPOSIUM

Pre-final year Students from the department of B.tech Chemical Engineering and BE Civil Engineering collaboratively conducted a national-level technical symposium in the name of 'Infotraz 2k23' where the students learned administrative skills. Our chief guest **Dr. G. Arthanareeswaran** from the Department of Chemical Engineering at the National Institute of Technology, Tiruchirapalli conducted a webinar on "Membrane Science and Technologies for Chemical and Environmental Applications" from which the students from various colleges benefited. The event coordinators have conducted various technical and non-technical events in which students from various colleges participated and won cash prizes and other exciting prizes.



INFOTRAZ 2K23

ACADEMIC ACHIEVEMENTS



Pre-final year student Sasidaran.K from the department of Chemical engineering attended the “**Summer Undergraduate Research Exposure (SURE) Internship Indian Institute of Technology, Hyderabad**” from 15.05.2023 to 14.07.2023

NPTEL EXAMINATION

The following students attended NPTEL Examination and successfully completed the course and procured certificates.



SASIDARAN K
CHEMICAL REACTION ENGINEERING - I
BATCH : 2021 - 2024



NANDHAKUMAR R
HEAT TRANSFER
BATCH : 2020 - 2024



HARISH V
FLUID AND PARTICLE MECHANICS
BATCH : 2020 - 2024

DEPARTMENT TOPPERS LIST



DIVYADHARSHINI M

CGPA: 9.484

BATCH : 2019 - 2023



HARISH V

CGPA: 9.136

BATCH : 2020 - 2024



SRIDEVI P

CGPA: 9.064

BATCH : 2021 - 2025



SARANI R P

CGPA: 9.229

BATCH : 2022 - 2026

PLACEMENT DETAILS



DIVYA DHARSHINI M

CAPGEMINI - 4.25L
QUEST GLOBAL - 3.25
FACEPREP - 3L



EZHILMADHAN V

COGNIZANT - 4L
TCS - 3.36L



GAYATHIRI N

COGNIZANT - 4L
TCS - 3.36L



HARIHARAH J

TCS - 3.36L



HARINI P

COGNIZANT - 4L



INDHIRAGANDHI S

TCS - 3.36L



JEROMEPRASAD J

FACEPREP - 3L



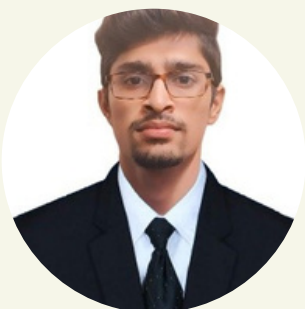
KANCHANA C

DXC - 4.2L



KULOTHUNGAN

TCS - 3.36L



LINGESH K

DXC - 4.2L
TCS - 3.36L



MANOHAR R

TCS - 3.36L



MATHAVRAAJ V.M

TCS - 3.36L



MUGESHRAAJ V
FACEPREP - 3L



NANDHINI S
DXC - 4.2L
QUEST GLOBAL - 3.25



PREETHI D
FACEPREP - 3L



PRIYADHARSHINI S
DXC - 4.2L



RANJITHKUMAR T
TCS - 3.36L



SANKARANARAYANAN S
COGNIZANT - 4L



SANJAY S
QUEST GLOBAL - 3.25L



SIVASANKARAPANDI N
DXC - 4.2L
MINDTREE - 4L
COGNIZANT - 4L



SOWMIYA B
DXC - 4.2L
QUEST GLOBAL - 3.25L



SUBASH V
DXC - 4.2L
ZOHO - 5.6L



SURENTHIRAN C
CAPGEMINI - 5.75L
DXC - 4.2L
COGNIZANT - 4L
QUEST GLOBAL - 3.25L



VISHWA B
ACCENTURE - 4.25L



VELMURUGAN S
TCS - 3.36L
QUEST GLOBAL - 3.25L

EDITORIAL BOARD

HARISH V

(STUDENT AUTHOR)

DEPARTMENT OF CHEMICAL ENGINEERING

2020-2024 BATCH