

AMAL JYOTHI COLLEGE OF ENGINEERING

(Affiliated to APJ Abdul Kalam Technological University Kerala, Approved By AICTE New Delhi)

DEPARTMENT OF CHEMICAL ENGINEERING



Bi-Yearly Newsletter DECEMBER 2020

Results of 2016-2020 Batch Announced

The overall pass percentage including all semesters for 2016-2020 Batch is 64.93%. 22 students of the same batch completed their B. Tech with Honors.



Ganga Anil secured University Rank 3

Ganga Anil completed her B. Tech by securing university rank 3 in chemical engineering. She did her B. Tech at Amal Jyothi College of Engineering during the period 2016 - 2020.

Prizes won at SCHEMCON-2020

One group secured 2nd and other group secured 3rd

Two groups from the chemical engineering department was successful on SCHEMCON-2020. SCHEMCON-2020 is the 16th annual student chemical engineering conference organized online by IICHE on October 9-10, 2020.

Nived K & Anit Rose Rony won 2nd Prize on the program while Paul Jose & Nidhi Mahima John won 3rd Prize. Both groups operated under the guidance of Dr. Abhinav K who is the assistant professor in chemical engineering department at Amal Jyothi College of Engineering.



ACHIEVEMENTS

STAFF ACHIEVEMENTS

- Dr. Vishnu M attended webinar on “ Landslides, Causes and Mitigation Measures ” delivered by Dr. Reshmi Sebastian Assistant Professor, Department of Civil Engineering, IIT Ropar on 09/07/2020 and hosted by the Department of Civil Engineering, Amal Jyothi College of Engineering.
- Dr. Vishnu M attended webinar on " Peer-Review: Why, How-To and What Not To Do " on 10/07/2020 delivered by Pamela Tadross, Associate Editor, Organic Process Research & Development and Kali Miller, Assistant Managing Editor, ACS Publications and hosted by the American Chemical Society (ACS).
- Reethu Susan Varghese attended a webinar on “The Art of writing a survey paper for Research” delivered by Dr. Kumar S.N. on 26/06/2020 conducted by the Electrical and Electronics Department, Amal Jyothi College of Engineering.
- Aishwarya K.N and Reethu Susan Vargheses attended Faculty Development Program on “The Role of Chemical Engineers in Sustainable Process Development” from June 08-12, 2020 organized by the Department of Chemical Engineering, Sri Venkateswara College of Engineering, Sriperumbudur, Tamilnadu.
- Sophia K Sunny attended national webinar on “Strategic Capacity Building through Mind Mechanics” on 07/07/2020 organized by IQAC and EDP Cell, Don Bosco College, Mannuthy, Thrissur.
- Dr. Abhinav K Nair, Assistant Professor participated as External Member in the Doctoral Committee for Comprehensive Viva at Sree Buddha College of Engineering on 09/10/2020.
- Ms. Himanath G, Assistant Professor, attended a webinar on “Turmeric Processing: A Spice to Boost Immunity” organized by ICAR-CIAE Regional Centre Coimbatore, Tamil Nadu and held on October 16, 2020.
- Dr. Dhanya George attended a webinar on "Face Masks: Materials, Disinfection, and Reuse During COVID-19" conducted by American Chemical Society on 09/10/2020.



- Reethu Susan Varghese, Rana Pratapan, Nikhi Maria Raju, Dr. Dhanya George and Dr. Abhinav K Nair attended the one week faculty Development program on “Novel Perspectives in Electrochemical Processes for Chemical and Environmental Engineering” conducted by TKM College of Engineering, Kollam from October 12-17, 2020.
- Ms. Joselin Ann Joy, Assistant Professor, attended a webinar on “Trends in Foods, Beverages and Preservation Methods organized by the Department of Food Technology, KS Rangasamy College of Technology, Tiruchengode, Tamil Nadu on October 20, 2020.
- Himanath G, Assistant Professor, secured first rank in her M. Tech.-Food Processing Engineering with a CGPA of 9.86 from SRM Institute of Science and Technology, Chennai.
- Dr. Dhanya George attended a TEQIP-III Sponsored one week online Short Term Course on "Computational Methods and Analysis for Engineers" organized by Department of Chemical Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar held from November 18 to 22, 2020.
- A Patent got granted to Dr. Vishnu M for the technology titled “Removal of Heavy Metals from Contaminated Water by Adsorption using Melanin Bound Activated Carbon” on 18 Nov 2020 from the Patent Office Chennai.

STUDENT ACHIEVEMENTS

- Ganga Anil and Asha Elizabeth of 2016-20 Batch completed internship at Nestle India Ltd.
- George Jacob and Fathima of 2016-20 Batch selected for internships at Vishnu Chemicals, Vishakapatnam.
- Joel Paul of 2016-20 Batch selected for internship at Nimbkar Agricultural Research Institute, Maharashtra.



WORKSHOP AND TRAINING PROGRAMS

- Aishwarya K.N and Reethu Susan Varghese attended Faculty Development Program on “The Role of Chemical Engineers in Sustainable Process Development” from June 08-12, 2020 organized by the Department of Chemical Engineering, Sri Venkateswara College of Engineering, Sriperumbudur, Tamilnadu.
- Dr. Vishnu M attended a five day FDP on "Recent Advances in Nanoparticles, Films, and Membranes" organized by the Department of Chemical Engineering Siddaganga Institute of Technology, Tumkuru, Karnataka from August 10-14, 2020.
- An online technical talk was delivered by Dr. Anjana P A, Assistant Professor, NIT Warangal for the S7-ChE on the topic “Heterogeneous Catalytic Reaction Kinetics: Bulk to Surface” on August 19, 2020. The event was coordinated by Dr. Vishnu M.
- A three-day hands-on training in Process Design using DWSIM for students was conducted jointly by AD Rana Prathapan and Rijin MD Tom from August 12-14, 2020.
- Ms. Sophia K Sunny attended a 5 day FDP on Nanotechnology for Green Process and Sustainable Development Conducted by AICTE-ATAL from August 24-28, 2020 and obtained 72% in their exam.
- Ms. Nikhi Maria Raju attended a six-day FDP on Current Environmental Impacts and Sustainable Research Solutions conducted by Sree Buddha College of Engineering, Alappuzha from August 21-28, 2020.
- Aishwarya KN, Assistant Professor participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Energy Engineering" from 2020-9-17 to 2020-9-21 at Velammal Engineering College with 76%.
- Nikhi Maria Raju attended the one week FDP on “Sustainable Design of Chemical Process Plants Using ASPEN PLUS and ASPEN HYSYS Simulation Tools’ Conducted by VIT, Vellore during September 21-26, 2020.
- Aishwarya KN completed a five day online workshop by AICTE incorporating Universal Human Values (UHV) in Education from October 5-9, 2020.1



PAPER PUBLICATIONS

- Asha Elizabeth, Ganga Anil, Abhiramy K S, Ashly James, Abhinav K Nair published a paper titled “Microwave Synthesis of Hydroxyapatite Nanorods from Eggshell Waste and Their Application in Dye Adsorption” in Proceedings of the National Conference on Biotechnology Research-Innovations and Opportunities (ISBN 978-93-5407-876-7), 182-190, June 2020.
 - Anooj Varghese Chacko, Don Ignatius, Gishin George Rajan, Nithin Varghese, Deepak Roy George, Vishnu M, published a paper titled “Studies on turbidity removal using bio-coagulant extracted from Jackfruit rags, in the Proceedings of the National Conference on Biotechnology Research- Innovations and Opportunities (ISBN 978-93-5407-876-7), 120-128, June 2020.
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VISION

Accomplish global recognition in the field of Chemical Engineering by generating highly efficient and committed engineers, entrepreneurs and researchers who would excel in conventional as well as emerging areas.

MISSION

- To provide high quality education and training in tune with the developments in Chemical Engineering.
- To develop entrepreneurship skills for transforming knowledge in to socially relevant quality products.
- To encourage research and development activities and industry - institute interactions for the technical advancements of students.
- To impart awareness of professional ethics, social responsibilities and sustainable development for serving the society.



PROGRAM EDUCATIONAL OBJECTIVES

Our graduates shall:

1. Excel as engineers or pursue higher studies in Chemical Engineering with a strong fundamental knowledge laid during undergraduate education.
2. Practice as entrepreneurs with ethical attitude and social responsibility.
3. Exhibit an innovative approach for facing the current technical and environmental challenges faced by the society.

PROGRAM SPECIFIC OUTCOMES

Graduates of Chemical Engineering Program shall be able to:

1. Successfully apply the knowledge of principles of science and engineering to identify and solve the real-life problems in Chemical Engineering and allied areas.
2. Foster research skills to develop sustainable solutions for Chemical Engineering problems.
3. Acquire essential managerial skills and ethical values to develop oneself as a true leader and a team player.

Editorial Board

- Ms. Reethu Susan Varghese
- Dr. Vishnu M
- Aldin Alex
- Alen George