

**AGRICULTURAL ENGINEERING
NEWSLETTER 2022-2023
VOLUME 1 (JULY-SEPTEMBER)**

**EXCEL ENGINEERING COLLEGE
(AUTONOMOUS)**

**Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NBA (AERO, CSE, ECE & MECH), NAAC with "A+"
and Recognised by UGC (2f &12B)
KOMARAPALAYAM**

DEPARTMENT VISION MISSION

VISION

To be a global leader in Agricultural Engineering, pioneering innovative solutions, fostering creativity and inspiring lifelong learning, all while embracing social responsibility to enhance agricultural sustainability and nourish the world.

MISSION

1. Provide an exceptional teaching and learning experience that integrates Experimental learning with practical skills and knowledge in agriculture engineering.
2. Advance cutting-edge research and comprehensive training, stringing to be at the forefront of innovations and knowledge dissemination in our field.
3. Emphasis on skill development, value addition and hand-on field work, to make students academically proficient.
4. Foster technological advancements and create abundant career opportunities, to ensure graduates are well prepared for successful careers and become industry leaders.

PROGRAMME EDUCATIONAL OBJECTIVES

- Graduates will demonstrate comprehensive technical proficiency as agricultural engineers, applying knowledge and skills to design, implement, and manage innovative agricultural systems effectively
- Graduates will cultivate an entrepreneurial mindset, showcasing the ability to identify, evaluate, and implement sustainable agricultural solutions, contributing to the growth and viability of agricultural enterprises.
- Graduates will champion sustainable development in agriculture by integrating environmentally conscious practices, promoting resource efficiency, and engaging in initiatives that address the socio-economic needs of communities
- Graduates will embrace a culture of creative learning, continuously adapting to emerging technologies and contributing to the advancement of agricultural sciences. Furthermore, they will actively serve society by applying their expertise to address agricultural challenges and promote community well-being.

PROGRAMME SPECIFIC OUTCOMES

- PSO1: To develop the skills in the field of Agriculture Engineering to become well versed in farm Mechanization, Food and Dairy Processing, Soil and Water Conservation, Bio Energy and IoT in Agriculture.
- PSO2: To imbibe the skills on supervising, coordinating, guiding, leading and decision making in the minds of Agriculture Engineering students for completing crop production projects in time

MESSAGES

CHAIRMAN'S MESSAGE



Prof. Dr. A.K. NATESAN

Agricultural Engineering is one of the essential branches of Engineering which demands innovation. With the rapid advancement of technology, Agricultural Engineering is becoming more important to tackle challenges in the global food market. The future of Agricultural Engineering is to integrate technology with biology and the social aspects of agriculture to create sustainable environment. I congratulate the Department of Agricultural Engineering for their initiatives to introduce department newsletter and also I wish the students to shine in their career.

VICE CHAIRMAN'S MESSAGE



**DR. N. MATHAN
KARTHICK, M.B.B.S.,
M.H.SC.
(DIABETOLOGY), AKS**

Agricultural engineers' main role is to solve problems found in agricultural production. Goals may include designing safer equipment for food processing. Agricultural engineers must creatively apply the principles of engineering. Agricultural engineer solve problems concerning power supplies, machine efficiency, the use of structures and facilities, pollution and environmental issues, and the storage and processing of agricultural products. I congratulate the Department of Agricultural Engineering for their initiatives to introduce department newsletter.



**DR. K. BOMMANNA
RAJA, PH.D.**

Agricultural Engineering is highly job oriented discipline especially in India where agriculture plays a major role in the economy of the country. I congratulate all the students and faculty members in publishing the department newsletter portraying the academic activities, student and faculty participation and achievements.



**DR. G. VIJAYAKUMAR,
M.E., PH.D.,**

The Department of Agriculture Engineering started during the Academic Year 2018-19 with an intake of 60 students. We have well established laboratories, well qualified and multi-disciplinary faculty members from various specializations such as Soil and Water Conservation Engineering, Farm Machinery and Power, Bio Energy Resources and IoT in Agriculture, Agricultural Process Engineering, Food and Dairy Engineering, Water Resources Engineering. Since agriculture started from ancient period, nowadays modern methods are being used. Also it requires much contribution from engineers to improve the economic wellbeing of the farmers through efficient mechanization. We are proud to create the entrepreneurs in agriculture field. I congratulate all the students also members of GRAES association to launch the newsletter for the Academic year 2022-2023.

DEPARTMENT EVENTS

One Day Public Awareness Program On Water Conservation “Celebration Of World Water Week-2022”(29.08.2022)

Department of Agriculture Engineering, Excel Engineering College (Autonomous) has organized public awareness program on water conservation on 29.08.2022.

The public awareness program commences sharply at 9.00 am with public peoples and our society youngsters. During the Awareness program our Agriculture department students and organized program coordinator delivered speech to motivate our students and our society peoples on “How to save water and importance of water.



Importance and uses of Awareness program:

- To give a Awareness to the public peoples and students for saving water in futures.
- Helping students to share responsibilities and developing Awareness among them.
- Help to develop civic and social responsibilities among them.
- Help students to understand their roles and responsibilities in the community.
- Helping students to develop a capacity to handle team and improve their social responsibility.
- Help to gain skills and knowledge about water conservation to Awareness among the public.
- To help students make use of their skills and knowledge to find practical solutions to community and individual problems.

DEPARTMENT EVENTS

“Engineers Day” Celebration In Department Of Agricultural Engineering

Department of Agricultural Engineering, Excel Engineering College (Autonomous) has Planned and conducted program for Celebration for “Engineers Day” on (19.09.2022) with our Agricultural Engineering students and faculty members.

The main part of the program is conducted to motivate the students by appreciate and providing awards for the students for the best performances in their studies and academic works.

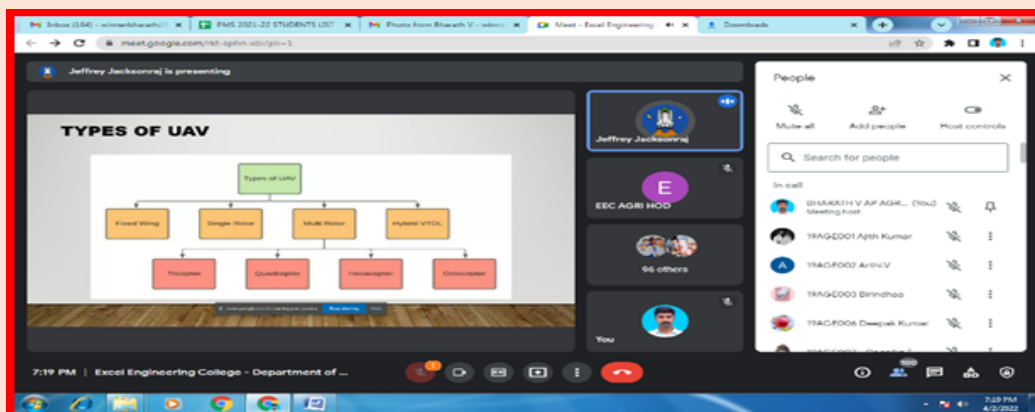


The Engineers Day Celebration was adjourned at 11.30 am with vote of thanks by Dr.G.Vijayakumar, HoD., and faculty members of Department of Agriculture Engineering, Excel Engineering College (Autonomous).

DEPARTMENT EVENTS

“Desing And Applications OF Drone In Agriculture”

Department of Agricultural Engineering, Excel Engineering College (Autonomous) has organized Guest Lecture on "Design and Applications Of Drone In Agriculture" on 02.04.2022. Welcome address was delivered by Mr. V. Bharath AP/Agri, EEC. Mr. Logachandran. AP/ Agri has introduced the Chief guest and Dr. G. Vijayakumar, Professor & Head Dept of Agri, EEC Delivered Felicitation Address. Chief Guests Mr. J.Jeffrey Jackson Raj, UAV Research Engineer and Pilot, HLD Airpon Company, Spain. Alumni (2014-2018) (Department of Aeronautical Engineering) Lectured our students about the Govt Examinations.



The Guest Lecture was adjourned at 10.00 am with vote of thanks by Dr.G.Vijayakumar, HoD., and faculty members of Department of Agriculture Engineering, Excel Engineering College (Autonomous).