



**AGRICULTURAL ENGINEERING
NEWSLETTER 2023-2024
VOLUME 2 (OCTOMBER - DECEMBER)**

**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. K.P. VISHALAKSHI,
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

“Resurrect the Spirit of Agriprenuership 4.0”

Department of Agriculture Engineering, Excel Engineering College (Autonomous) has organized one day Seminar on Resurrect the Spirit of Agriprenuership 4.0 on 03.04.2024 .

Chief guest Prof.R.M.Subramanian Visiting Professor Joint Director of Agriculture (Retired), Erode, Mr.R.Bala Subramaniam Chief Executive Officer (CEO) Andavar Group of Industries. External Faculty has delivered Seminar on Spirit of Agriprenuership 4.0 to our Agricultural Engineering students.

Benefitted Participants are 60 students and 7 faculty members.

Entrepreneurs with a 4.0 spirit are able to envision innovative solutions to pressing global challenges, such as sustainability, healthcare, and education. They recognize the need for collaboration and adaptability, often working within existing organizations or ecosystems to drive innovation and growth. Entrepreneurs 4.0 continually update their skills and knowledge to stay abreast of technological advancements, market trends, and shifting consumer behaviors.



DEPARTMENT EVENTS

“Agripreneurship Opportunities and Global Competitions in Drone Technology”

Department of Agriculture Engineering, Excel Engineering College (Autonomous) has organized one day Seminar on “Agripreneurship Opportunities and Global Competitions in Drone Technology” on 10.04.2024.

Chief guest Mr.Tamilarasu Kaliannan Director Aerotics Techlogies LLP Bangalore, Karnataka, External Faculty has delivered Seminar on Agripreneurship Opportunities and Global Competitions in Drone Technology to our Agricultural Engineering students.

Benefitted Participants are 60 students and 7 faculty members.

A drone entrepreneur is an individual who sets up and operates a company using drones, commonly referred to as unmanned aerial vehicles (UAVs). This rapidly growing industry offers plenty of opportunities. Drones can provide aerial pictures, conduct surveys, and map areas, among other things. This is an interesting field to venture into because there are newer ways of using drones as technology advances.



“Celebration of International Seeds Day-2024”

Department of Agriculture Engineering, Excel Engineering College (Autonomous) has organized off day Activity for “Celebration of International Seeds Day-2024” on 26.04.2024.

This program celebration inter college faculty & status only. From Excel Engineering College , Komarapalayam, Namakkal has celebration on International Seed Day– 2024 to our Agricultural Engineering students.

Benefitted Participants are 150 students and 10 faculty members.

DEPARTMENT EVENTS

International Seeds Day is celebrated on April 26th every year. This day is dedicated to advocating for patent-free seeds, organic food, and farmers' rights. It also creates awareness about sustainable farming and challenging Order 81. ". Pollination and the "seed habit" are considered the most important factors responsible for the overwhelming evolutionary success of flowering plants, which number more than 300,000 species. Plants can be pollinated in many ways such as by insects, the wind, by water, and by self-pollination.



Awareness Programme on Fitness "Fit India Freedom Run 2.0"

Department of Agriculture Engineering, Excel Engineering College (Autonomous) has organized off day Activity on Fitness Awareness programme on Fitness "Fit India Freedom Run 2.0" on 16.03.2024.

This program organized by Mr.v.Bharath Assistant professor, Agricultural Engineering, internal faculty in this activity for Awareness Programme on Fitness "Fit India Freedom Run 2.0" to our Agricultural Engineering students.

Fit India Mission in its endeavour to promote fitness and creating awareness amongst countrymen keeps coming with innovating fitness campaigns to indulge people in fitness activities.

