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DEPARTMENT OF AGRICULTURAL ENGINEERING



AGRITECH-NEWSLETTER

Contents

- PEO/PSO/PO
- Quality Policy of the Institute
- Department Achievements
- Staff Achievements
- Student Achievements
- College Vision / Mission
- Department Vision/Mission

Program Educational Objectives (PEOs)

PEO I : Graduates shall become agricultural professionals with specialization in irrigation, farm equipments, post harvest and renewable energy along with automation.

PEO II : Graduates shall able to design and develop optimistic products for the benefits of farmer and society.

PEO III : Graduates shall have professional ethics, team spirit, life-long learning, adopt corporate culture, core values and leadership skills and communication skills.

Program Specific Outcomes (PSOs)

PSO 1 : Professional skills : Students shall understand, analyze, design and develop agricultural equipments to meet the requirements of farmer and industry.

PSO 2 : Competency : Students shall qualify at the State, National and International level competitive examination for employment, higher studies and research.

Program Outcomes (POs)

Engineering Graduates will be able to:

- **Engineering knowledge :** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem analysis :** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design / development of solutions :** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **Conduct investigations of complex problems :** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **Modern tool usage :** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

- **The engineer and society** : Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

- **Environment and sustainability** : Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

- **Ethics** : Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

- **Individual and team work** : Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

- **Communication** : Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

- **Project management and finance** : Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

- **Life Long Learning** : Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

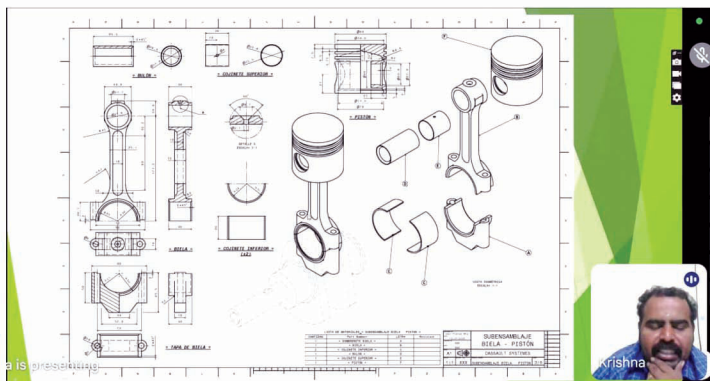
Quality Policy of the Institute

To strive continuously for producing the best result in terms of Knowledge, Self-Discipline and application of the Knowledge acquired.

Department Achievements

Program Conducted by the Department

Department of Agricultural Engineering organized National Webinar focused on "Revolutionizing Farm Engine Design and Development" was presented by Mr.P.Krishnamoorthy, Manager - Tool Design, TVS Brakes India Private Ltd, Chennai on 30th November 2024.



Department of Agricultural Engineering organized one day National level workshop on "Empowering Agriculture with Renewable Energy Resources" was handled by Dr.P.Dineshkumar, Assistant Professor, Department of Agricultural Engineering, Kongunadu College of Engineering and Technology, Trichy on 30th September 2024.



A One day National Level Technical Symposium "TECKCLUSTER 2024" was Organized on 21st September 2024.



Student Association Program

Department of Agricultural Engineering and Agricultural Engineering Students Association organized workshop on "Sustainable Banana Farming Practices" was presented by Dr.V.Kumar, Principal Scientist (Hort.), ICAR- NRC for Banana, Tiruchirappalli on 24th October 2024.



Department of Agricultural Engineering and Agricultural Engineering Students Association organized Seminar on "Innovative Agricultural Design : Shaping the Future of Farming" was presented by Mr.KRN.Manoj, Director & CTO, Pumo Technovation India Pvt. Ltd., Coimbatore on 1st October 2024.



Department of Agricultural Engineering and Agricultural Engineering Students Association organized Seminar on “Significance and Implementation of Precision Agriculture” was presented by Dr.John Yesudhas, Tech Farming Expert, Tedx Speaker, South India President (IGMA), Founder & CEO IGO Group, Chennai on 27th August 2024.



Department of Agricultural Engineering and Agricultural Engineering Students Association organized Inauguration Function & Seminar on “Drones and their Applications in Agriculture” was presented by Dr.N.Sureshkumar, Chairman, 360 Group of companies, Chennai on 15th July 2024.



ISAE Activities

Indian society of Agricultural Engineers (ISAE) organized guest lecture titled on “Integrating Remote Sensing, GPS & GIS for Water Resource Management” was handled by Dr.M.Nagarajan, Assistant Professor, Department of Soil & Water Conservation Engineering, Agricultural Engineering College And Research Institute, Kumulur, Tiruchirappalli on 5th October 2024.



Indian society of Agricultural Engineers (ISAE) organized inauguration function and seminar on “Micro Irrigation and its Role on Sustainable Agriculture” was presented by Mr.A.Ranjithkumar, Territory Manager, and Mr.P.Varadharasu, Agronomist, Rivullis Irrigation India Pvt Ltd, Coimbatore on 16th August 2024.



Green Club Activities

Green Club organized drawing competition on “Revolutionary for Green Environment” at Kongunadu College of Engineering and Technology on 9th October 2024.

Green Club organized seminar on “Climate Change and its Global Impacts” was presented by Mr.A.Ramesh, Treasurer and Training Coordinator of Vanagam, Karur on 27th August 2024.



MoU

The Department of Agricultural Engineering signed a Memorandum of Understanding with IGOAGRI TECHFARMS on 27th August 2024.



Staff Achievements

Publication

Book / Manual

1. Mr.N.Mukilan, Ms.R.Kavinila “Farm Structures and Greenhouse Technology”, The Charulatha Publications, Chennai, December 2024.

2. Dr.G.Kiruthika, Mr.M.Sundharan, “Protected Cultivation” The Charulatha Publications, Chennai, December 2024.

Journals

1. Dr.V.Gopinath, “Optimization of silver nanoparticle - enhanced nanofluids for improved thermal management in solar thermal collectors”, Revista Matéria, Vol.29, Issue No. 3, DOI : <https://doi.org/10.1590/1517-7076-RMAT-2024-0363>.

2. Mr.M.Prabhu, “Experimental investigations on spray characteristics of non-edible oils using phase doppler particle analyser”, Revista Matéria, Vol.29, Issue No. 3, DOI : <https://doi.org/10.1590/1517-7076-RMAT-2024-0415>.

3. Mr.S.Satheeshkumar, “Nano-boosted concrete : Revolutionizing Strength and Durability for Modern Construction”, Revista Matéria, Vol.29, Issue No.4, DOI: <https://doi.org/10.1590/1517-7076-RMAT-2024-0521>.

Conference

1. Dr.P.Dineshkumar, an abstract titled "A Study Investigating the Use of Magnesium Sulphate (MgSO₄) Salt Combined with Coal Cinder in a Trapezoidal Salt Gradient Solar Pond" in the International Conference on Additive Manufacturing Technologies held at Mahendra Institute of Technology, Namakkal on 17/10/2024 to 18/10/2024.

2. Dr.G.Kiruthika, an abstract titled "Impact of Different Organic Manures on Microbial Properties in Sandy Loam Soil" in 10th National Conference on Agro - Ecological Framing System to Promote Sustainable Agriculture held at Pushkaram College of Agriculture Science, Pudukkottai, on 18/08/2024.

Programs attended by staff

FDP

1. Dr.P.Dineshkumar, and Ms.R.Kavinila had attended two-days Faculty Development Program titled as "Advanced AI Tools for Preparing Research Papers" organized by Department of Computer Science Engineering at SASI Institute of Technology and Engineering, on 8th and 9th November 2024.

2. Ms.R.Kavinila had attended five-days Faculty Development Program titled as "Metal Additive Manufacturing: From Advances to Adaptability" organized by Department of Mechanical Engineering at St.Joseph's Institute of Technology, Chennai from 4th to 8th November 2024.

3. Dr.V.Gopinath, Mr.M.Prabhu, Dr.P.Dineshkumar have participated in the six day online International Faculty Development Program on Additive Manufacturing Advancements in different application (AMADA-24) organized by Department of Mechanical Engineering, SRM Institute of Science and Technology, Chennai-89 from 21st to 26th October 2024.

4. Dr.V.Gopinath, Dr.P.Dineshkumar, Mr.N.Mukilan, Mr.M.Prabhu have participated in the six day online International Faculty Development Program on Progress in Mechanical Engineering organized by Department of Mechanical Engineering, SRM Institute of Science and Technology, Chennai from 14th to 19th October 2024.

5. Dr.V.Gopinath, Ms.G.Veera Karunya and Mr.M.Sundharan attended short term training course on NITTR titled "Enhancing Research Capabilities for Academic Career Progression" from 23th September 2024 to 27th September 2024 at Kongunadu College of Engineering & Technology, Trichy.

6. Dr.P.Dineshkumar has participated in the five-day Faculty Development Program on the "Future of Mechanical Engineering : AI and Its Transformative Impact : conducted by Techno India University from 17th to 21st September 2024.

NPTEL

1. Dr.V.Gopinath was cleared NPTEL exam as a Topper in the course "Thermal Operations in Food Processing Engineering : Theory and Applications".

2. Dr.P.Dineshkumar (Elite), Mr.N.Mukilan (Elite), Mr.M.Prabhu (Elite), Mr.M.Sundharan & Ms.R.Kavinila were cleared NPTEL Exam in the course "Natural Resources and Management".

3. Dr.P.Dinesh Kumar Elite + Silver & Mr.M.Prabhu (Elite) were cleared NPTEL exam in the course "Theory of Production Process".

Seminar / Webinar

1. Mr.M.Prabhu had attended one - day National Online Workshop titled as "Mastering the Art of Writing Research Thesis in Social Science" organized by Department of English in association with IIPC, Kongu Engineering College, Perundurai on 30th November 2024.

Resource Person

1. Mr.N.Mukilan presented a seminar titled "Water Harvesting Structures" as a Resource Person for the farmers at the agricultural engineering department, Balasamudram, Thottiyam on 11th September 2024.

2. Mr.N.Mukilan presented a seminar titled "Role of Post Harvesting Technology" as a Resource Person on 17th August 2024 at Er.Perumal Manimekalai Polytechnic college, Hosur.

FACULTY INDUSTRIAL TRAINING

S.No	Name of the Faculty	Company Name & Details
1.	Dr.P.Dineshkumar	Muthulakshmi Tractors, Salem
2.	Dr.G.Kiruthika	The Salem Co-Operative Sugar mill, Mohanur
3.	Mr.S.Satheeshkumar	Green Resources Solutions, Salem.
4.	Ms.G.Veera Karunya	Central Marine Fisheries Research Institute, Ramanathapuram.
5.	Mr.M.Prabhu	Dharanee Agrovator, Perundurai.
6.	Mr.N.Mukilan	Kavin Irrigations, Karur.
7.	Ms.R.Kavinila	Kongunad Tractors , Namakkal
8.	Mr.M.Sundharan	Mobitech wireless solution private limited, Perundurai.

Students Achievements

Prize Winners

Technical Events

1. S.Mohana, M.Sri Dhanalakshmi, M.Subha from final year won Second Prize in Poster Presentation held at Paavai Engineering College, Namakkal on 08th November 2024 to 09th November 2024.



2. P.Santhoshini and R.Shanmugaraj from final year won First Prize in Poster Presentation and Second Prize in Paper Presentation held at Ganamani College of Engineering on 24th October 2024.



3. K.Krishna Priya from second year won Second Prize in Seed and Millet Identification held at Ganamani College of Engineering on 24th October 2024.

4. R.Swetha and S.Devika of third year Agricultural Engineering won 3rd Prize in poster presentation held at Roever Engineering College - Perambalur on 27th September 2024.



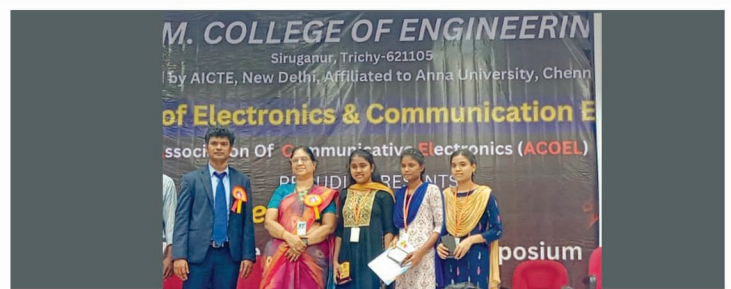
5. R.Swetha of third year Agricultural Engineering won First Prize Technical quiz held at Roever Engineering College - Perambalur 27th September 2024.



6. S.Devika of third year Agricultural Engineering won Second Prize Technical quiz held at Roever Engineering College - Perambalur on 27th September 2024.



7. T.Visvanandhini, B.Rajeshwari, J.Gunavathi from final year won Second Prize in Third Prize in Technical Quiz Event held at M.A.M College of Engineering, Trichy on 25th September 2024.



🌸 Sports Winner

1. M.Mohanapriya, P.Deepiga second year Agricultural Engineering Won First Prize Overall Championship in Athletics' Zonal Tournament at Dhanalakshmi Srinivasan Engineering College on 21st & 22nd November 2024.

2. R.Anand, T.Dhanush Pandi & A.Ganeshan third year Agricultural Engineering Won First Prize in Hockey Zonal Tournament at Kongunadu College of Engineering & Technology on 22nd October 2024.



3. C.Sivabalan final year Agriculture Engineering Won Second prize in Alumni Trophy Basketball tournament at M.Kumaraswamy College of Engineering on 1st October 2024.

4. C.Sivabalan final year Agriculture Engineering Won Third prize in Basketball tournament at Fighting Stars, Aranthangi on 16th September 2024.



5. D.Ananthi, K.Anusiya & P.Naveena third year Agricultural Engineering Won Second Prize in Football Interzonal Tournament at Anna University, Trichy On 26th October 2024.

6. P.Rubina second year Agricultural Engineering won First Prize in Basketball Zonal Tournament at K.Ramakrishna College of Engineering On 26th November 2024.



✿ Paper presentation / Project / Technical Event / Hackath on

3 students from final year Agriculture Engineering had presented papers in event held at Paavai Engineering College, Namakkal on 08th November 2024 to 09th November 2024.

5 students from final year Agriculture Engineering attended project expo event held at Paavai Engineering College, Namakkal on 08th November 2024 to 09th November 2024.

5 students from final year Agriculture Engineering had participated in Technical quiz held at Paavai Engineering College, Namakkal on 08th November 2024 to 09th November 2024.

7 students from second year Agricultural Engineering had presented paper in SPROUTMECH-2K24 event held at Gnanamani College of Technology, Namakkal on 24th October 2024.

7 students from final year Agriculture Engineering had presented paper in SPROUTMECH-2K24 event held at Gnanamani College of Technology, Namakkal on 24th October 2024.

5 students from final year Agriculture Engineering had participated in poster presentation in SPROUTMECH-2K24 event held at Gnanamani College of Technology, Namakkal on 24th October 2024.

2 students from second year Agricultural Engineering had participated in Technical quiz in SPROUTMECH-2K24 event held at Gnanamani College of Technology, Namakkal on 24th October 2024.

3 students from final year Agriculture Engineering had participated in Technical quiz in SPROUTMECH-2K24 event held at Gnanamani College of Technology, Namakkal on 24th October 2024.

2 students from third year Agricultural Engineering had presented paper in EMXCEL event held at Kongu Engineering College, Erode on 9th October 2024.

7 students from second year Agricultural Engineering had presented paper in EMXCEL event held at Kongu Engineering College, Erode on 9th October 2024.

5 students from third year Agricultural Engineering had presented paper in GNYA NELECTRA COMMUNIX event held at Gnanamani College of Technology, Namakkal on 9th October 2024.

1 student from third year Agricultural Engineering attended project expo held at Gnanamani College of Technology, Namakkal on 9th October 2024.

1 student from second year Agricultural Engineering attended picture writing thirukural competition held at Aram Arakattalai & Aagalaivaa Kalaikoodam", Kongunadu Engineering & Technology, Trichy on 06th October 2024.

1 Student from Second year of Agricultural Engineering has attended a Hackathon on "Intel's Gen AI Hackathon 2024" at KPR Institute of Engineering and Technology, Coimbatore on 4th and 5th October 2024.

2 students from third year Agricultural Engineering had presented paper in MTECHNO AVENIR 2K24 event held at Roever Engineering College, Perambalur on 24th September 2024.

2 students from second year Agricultural Engineering had presented paper in TECHSYM SAIJYU-24 event held at Sengunthar Engineering College, Tiruchengode on 24th September 2024.

5 students from final Agriculture Engineering attended the "Smart Agro Storage Hackathon for Engineers Day 2024" at SRM Institute of Science and Technology on 17th September 2024.

✿ Seminar/ Workshop / Webinar attended

2 students from third year Agricultural Engineering has attended workshop on Machine to Machine Communication held at Study World College of Engineering, Coimbatore on 14th October 2024.

3 students from third year Agricultural Engineering has attended workshop on National Level Technical Symposium EMXCEL held in Kongu Engineering College, Erode on 09th October 2024.

9 students from second year Agricultural Engineering has attended workshop on National Level Technical Symposium EMXCEL held in Kongu Engineering College, Erode on 09th October 2024.

2 students from second year Agricultural Engineering has attended workshop on Precision Engineering : Hands on Training in wire cut EDM and Micro Drilling Techniques held at K.Ramakrishna College of Technology, Trichy on 04th October 2024.

9 students from second year Agricultural Engineering has attended workshop on Generative AI held Kings College of Engineering, Pudukkottai on 30th September 2024.

1 Student from final year Agriculture Engineering has attended a workshop on Generative AI for Electronics And Communication at KSR College of Engineering, Tiruchengode on 30th September 2024.

4 students from final year Agriculture Engineering has attended workshop on Unlocking the Power of AI Tool held at Sree Sakthi Engineering College, Coimbatore on 28th September 2024.

6 students from second year Agricultural Engineering has attended workshop on Unlocking the Power of AI Tool held at Sree Sakthi Engineering College, Coimbatore on 28th September 2024.

5 students from final year Agriculture Engineering has attended workshop on AI Powered Agriculture held at Galwin Technology, Trichy on 28th September 2024.

12 students from third year Agricultural Engineering has attended workshop on AI Powered Agriculture held at Galwin Technology, Trichy on 28th September 2024.

3 students from second year Agricultural Engineering has attended workshop on AI Powered Agriculture held at Galwin Technology, Trichy on 28th September 2024.

1 Student from second year of Agricultural Engineering has attended a workshop on 3D Modeling and Animation at KSR College of Engineering, Tiruchengode on 28th September 2024.

2 Students from third year of Agricultural Engineering have attended workshop on TECHNO AVENIR 2K24 held at Roever Engineering College on 27th September 2024.

9 Students from second year of Agricultural Engineering have attended workshop on Advanced Surveying Techniques and GIS Mapping for Sustainable Development held at PPG Institute of Technology, Coimbatore on 25th and 26th September 2024.

4 Students from third year of Agricultural Engineering have attended workshop on Advanced Surveying Techniques and GIS Mapping for Sustainable Development held at PPG Institute of Technology, Coimbatore on 25th and 26th September 2024.

10 Students from final year of Agriculture Engineering have attended workshop on Advanced Surveying Techniques and GIS Mapping for Sustainable Development held at PPG Institute of Technology, Coimbatore on 25th and 26th September 2024.

NPTEL and IIT Spoken Tutorial

7 students from III year successfully completed 12 weeks NPTEL course on "Natural Resource Management" from July-Oct 2024.

8 students from IV year successfully completed 12 weeks NPTEL course on "Natural Resource Management" from July-Oct 2024.

38 students from IV year successfully completed QGIS course in IIT Spoken Tutorial.

62 students from III year successfully completed ARDUINO course in IIT Spoken Tutorial.

46 students from II year successfully completed INTRODUCTION TO COMPUTERS course in IIT Spoken Tutorial.

Internship

65 students from III year attended Internship from various Agricultural Industries during their semester holidays.

Industrial Visit

IV Year students visited Dams Agri Pvt Ltd, Coimbatore on 27th July 2024.



III Year students visited Jains Irrigation Systems Ltd, Coimbatore on 17th July 2024.



II Year students visited Vethaa Dairy Pvt. Ltd, Trichy on 27th September, 2024.



COLLEGE VISION & MISSION

• VISION

“To become Internationally Renowned Institution in Technical Education, Research and Development by transforming the students into Competent Professionals with Leadership Skills and Ethical values”

• MISSION

- ❖ Providing the Best Resources and Infrastructure.
- ❖ Creating Learner – Centric Environment and continuous learning.
- ❖ Promoting Effective Links with Intellectuals and Industries.
- ❖ Enriching Employability and Entrepreneurial Skills.
- ❖ Adapting to Change for sustainable Development.

DEPARTMENT VISION & MISSION

• VISION

“To produce excellent professionals in agricultural engineering through quality education, leadership skills and ethical values to serve the society.”

• MISSION

- ❖ Providing in-depth knowledge and applications of agricultural machineries and associated process with embedded technology.
- ❖ Developing multidisciplinary learning environment with leadership skills..
- ❖ Impart training in entrepreneurial and life skills for enhancing employability.

Editorial Board

Chief Patron

Dr. V.Gopinath, HOD/AGE

Executive Editors

Ms. R.Kavinila, Assistant Professor/AGE

Student Editorial Members

Ms. P.Santhoshni, IV-Year **Ms. D.Ananthi**, III-Year **Ms. M.Y.Manashwini**, II-Year
Mr. B.Kavibharath, IV-Year **Ms. R.Suguna**, III-Year **Mr. R.Mohammed Ameerdeen**, II-Year



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