



SRI SHANMUGHA
EDUCATIONAL INSTITUTIONS



SRI SHANMUGHA
COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous)



ISAE

DEPARTMENT OF AGRICULTURAL ENGINEERING



GROSSMARTZZ
GLIMPSES OF 2024 – 25 (ODD)

MESSAGE FROM THE HEAD OF THE DEPARTMENT



Dr. G. VIJAYAKUMAR

Dear GROSSMARTZZ Readers, I am really happy to welcome you to GROSSMARTZZ's subsequent edition for the 2024–2025 academic year. I am very fortunate to verbalise my feelings and give each of you my best wishes in these pages. This magazine encourages us all to aspire greater supremacy by serving as a source of inspiration as well as a monument to our group's accomplishments. I would like to extend my sincere gratitude to the committed group behind GROSSMARTZZ, whose never-ending work has resulted in this publication. It is extremely commendable that you have remained steadfast in your efforts to showcase our department's achievements. I invite everyone to turn to the pages of this magazine and take a nostalgic trip through the pages, thinking back on those memorable instances. Warm regards, **Dr. G. VIJAYAKUMAR** Head of the Department.

MESSAGE FROM THE EDITORIAL DESK

Dear GROSSMARTZZ Readers,

The Department of Agriculture Engineering is excited to present the latest issue of GROSSMARTZZ's, our departmental magazine that highlights abilities, achievements, and innovative endeavours of our staff and students. We look forward to another exciting year together. These pages contain fascinating photo collages, perceptive viewpoints, and compelling stories that capture the dynamic spirit of our academic community, including student accomplishments, field and industry visits, symposiums, and departmental highlights from the 2024–25 academic year. This publication is proof of our steadfast commitment to innovation and quality in education. We hope you enjoy looking through this edition and contemplating regarding the previous year. Your assistance is crucial to keeping GROSSMARTZZ a popular platform.

Warm regards,
The Editorial Desk

VISION AND MISSION OF THE DEPARTMENT

VISION

To produce Agricultural Engineers with enriched knowledge and moral values to achieve excellence in academic, industry and research-centric environments.

MISSION

- To provide a conducive learning atmosphere to improve the analytical, design and investigation knowledge through effective teaching-learning Processes.
- To create an amicable environment to solve societal problems through continuing education programmes and research.
- To develop students ethically responsible for the benefit of society through cultural, social and economic awareness.

PEOs AND PSOs OF THE DEPARTMENT

PEO1 – Practice Agricultural Engineering and Technology concepts across diverse Industrial, societal, and real-world contexts.

PEO2 – Pursue higher education for professional development.

PEO3–Become Agripreneur with leadership qualities and continuously contributes to societal needs ethically.

PSO1 – Develop the student's expertise in the field of agricultural engineering by using diverse resources, farm mechanization, and processing.

PSO2 – Acquire knowledge on IoT, Drone Technology applications in Agriculture and Automation in Agriculture sectors..

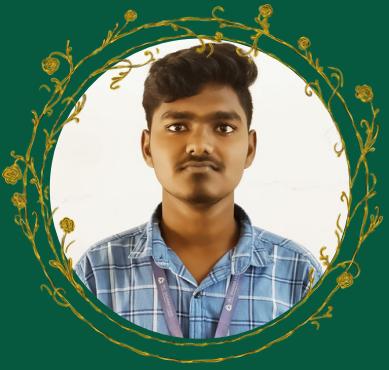
STUDENT OFFICIALS



Mr. S. Kumaresan
PRESIDENT



Ms. S. Poojajayalakshmi
VICE PRESIDENT



Mr . P. Bhuvaneshwaran
TREASURER



Ms. S. Sasipriya
OFFICE BEARER

EDITORIAL TEAM



DR. G. VIJAYAKUMAR
CHIEF EDITOR



MR. K. MOHAN
EDITOR



Mr. M. Sowndhararajan
EDITOR

PLACEMENT DETAILS

S.No	Name of the Student	Batch	Company Placed
1.	Agasthiya S	2020-2024	Popular Systems
2.	Akilankumar E M	2020-2024	Kongunad Tractors
3.	Arunavarshini K	2020-2024	Popular Systems
4.	Aswinchandran P	2020-2024	Eduport – Calicut
5.	Bhargavi P	2020-2024	Popular Systems
6.	Devendran S	2020-2024	Kubota Tractors
7.	Dhanush G	2020-2024	Popular Systems
8.	Dhanushya A	2020-2024	Kongunad Tractors
9.	Ebinesh R	2020-2024	Kongunad Tractors
10.	Hem Gowtham S	2020-2024	Kongunad Tractors
11.	Karunya J	2020-2024	Gomathi Engineering Works
12.	Kishore Kannan A	2020-2024	Dams Agri Private Limited
13.	Mano Ranjith A	2020-2024	Dams Agri Private Limited
14.	Nevetha P	2020-2024	Popular Systems
15.	Rajeshkumar P	2020-2024	JJ Agri Tool
16.	Rina C	2020-202	Noviyo Creative Agency
17.	Saranya J	2020-2024	Kongunad Tractors
18.	Senthamilarasi B	2020-2024	Kongunad Tractors
19.	Sowmiya M	2020-2024	Popular Systems
20.	Sudharshan G	2020-2024	Kubota Tractors
21.	Tamil Anbu B	2020-2024	Popular Systems
22.	Veerapathiran G	2020-2024	Gomathi Engineering Works

HIGHLIGHTS OF THE DEPARTMENT (2024-25)



Drone Applications in Agricultural Engineering



Alumni interaction Series- IV



Modern Tool usage in Agricultural Surveying



Alumni interaction Series- III

RAJALAKSHMI ENGINEERING COLLEGE
Postharvest Technologies of Nutricereals (Millets) and its significance in today's life
Arudra Devi G M.Tech, PGDQSM,
Assistant Professor
Department of Food Technology
Rajalakshmi Engineering College
Chennai 602 105

2:40 PM | Webinar on Post-Harvest

Postharvest Technologies of Nutricereals (Millets) and its Significance in today's life



Millet Processing

HIGHLIGHTS OF THE DEPARTMENT (2024-25)



Destines of Agricultural Engineers



Recent Advancement in the Food Industry sector



IoT Applications in Agricultural Sector



Power and Technology 5.0



Alumni interaction Series-I



Alumni interaction Series-II

STUDENT ACHIEVEMENTS

INTERNSHIP

S.No	Name of the Student	Name of the Company	Internship Period		Duration (in weeks)
			From	To	
1	Abhiniti	Popular Systems	15.07.2024	27.07.2024	2 Weeks
2	Abishek	Amogam Agro Agencies	15.07.2024	30.07.2024	2 Weeks
3	Akila	Popular Systems	15.07.2024	27.07.2024	2 Weeks
4	Akshaya	CAI Mahindra-Namakkal	15.07.2024	30.07.2024	2 Weeks
5	Anjali	KVK Myrada, Erode	15.07.2024	29.07.2024	2 Weeks
6	Bhuvaneshwaran	JJ Agri Tools, Trichy	15.07.2024	27.07.2024	2 Weeks
7	Bhuvaneshwari	CAI Mahindra-Namakkal	15.07.2024	30.07.2024	2 Weeks
8	Dhanusha	Popular Systems	15.07.2024	27.07.2024	2 Weeks
9	Dharanidharan	Sri Amman Farm Equipments and Agencies	15.07.2024	27.07.2024	2 Weeks
10	Dharshini	CAI Mahindra-Namakkal	15.07.2024	30.07.2024	2 Weeks
11	Gayathri	Sri Amman Farm Equipments and Agencies	15.07.2024	27.07.2024	2 Weeks
12	Jayashree	KVK Myrada, Erode	15.07.2024	29.07.2024	2 Weeks
13	Kabilan	Amogam Agro Agencies	15.07.2024	30.07.2024	2 Weeks

STUDENT ACHIEVEMENTS

INTERNSHIP

14	Kavibharathi	CAI Mahindra-Namakkal	15.07.2024	30.07.2024	2 Weeks
15	Kaviyanjali	Amogam Agro Agencies	15.07.2024	30.07.2024	2 Weeks
16	Mohanapriya	Amogam Agro Agencies	15.07.2024	30.07.2024	2 Weeks
17	Mounika	Popular Systems	15.07.2024	27.07.2024	2 Weeks
18	Nithya	KVK Myrada, Erode	15.07.2024	29.07.2024	2 Weeks
19	Pooja	Sri Amman Farm Equipments and Agencies	15.07.2024	27.07.2024	2 Weeks
20	Poovarasan	Sri Amman Farm Equipments and Agencies	15.07.2024	27.07.2024	2 Weeks
21	Preethi.	Amogam Agro Agencies	15.07.2024	30.07.2024	2 Weeks
22	Ramanadevi.	Sri Amman Farm Equipments and Agencies	15.07.2024	27.07.2024	2 Weeks
23	Rasika	CAI Mahindra-Namakkal	15.07.2024	30.07.2024	2 Weeks
24	Sangeetha	Sri Amman Farm Equipments and Agencies	15.07.2024	27.07.2024	2 Weeks
25	Santhiya	Popular Systems	15.07.2024	27.07.2024	2 Weeks
26	Sasipriya	Sri Amman Farm Equipments and Agencies	15.07.2024	27.07.2024	2 Weeks
27	Sathish	Amogam Agro Agencies	15.07.2024	30.07.2024	2 Weeks
28	Sindhuja	KVK Myrada, Erode	15.07.2024	29.07.2024	2 Weeks
29	Sneha	KVK Myrada, Erode	15.07.2024	29.07.2024	2 Weeks
30	Srinidhi	KVK Myrada, Erode	15.07.2024	29.07.2024	2 Weeks
31	Subhasri	Amogam Agro Agencies	15.07.2024	30.07.2024	2 Weeks

STUDENT ACHIEVEMENTS

INTERNSHIP

32	Sudha	Popular Systems	15.07.2024	27.07.2024	2 Weeks
33	Thulasi	CAI Mahindra-Namakkal	15.07.2024	30.07.2024	2 Weeks
34	VARSHINI	Popular Systems	15.07.2024	27.07.2024	2 Weeks
35	Aarthi C	Popular Systems	06.03.2024	30.05.2024	12 Weeks
36	Aathisha J	Popular Systems	06.03.2024	30.05.2024	12 Weeks
37	Anushiya A	Popular Systems	06.03.2024	30.05.2024	12 Weeks
38	Arul Selvan B	To Set Land Surveying Institute	08.04.2024	30.05.2024	8 Weeks
39	Boopathiragavan J	Popular Systems	06.03.2024	30.05.2024	12 Weeks
40	Dhusyanth E	Popular Systems	06.03.2024	30.05.2024	12 Weeks
41	Glory Joy J	Popular Systems	06.03.2024	30.05.2024	12 Weeks
42	Gokulapriya K	Popular Systems	06.03.2024	30.05.2024	12 Weeks
43	Gowruvaraj S	Popular Systems	06.03.2024	30.05.2024	12 Weeks
44	Janani C	Popular Systems	06.03.2024	30.05.2024	12 Weeks
45	Janathanan R	Popular Systems	06.03.2024	30.05.2024	12 Weeks
46	Meena K	Popular Systems	06.03.2024	30.05.2024	12 Weeks
47	Neethiselvan M	Popular Systems	06.03.2024	30.05.2024	12 Weeks
48	Nishandhini B	Popular Systems	06.03.2024	30.05.2024	12 Weeks
49	Poornima S	Popular Systems	06.03.2024	30.05.2024	12 Weeks
50	Pugalenthiran A	Popular Systems	06.03.2024	30.05.2024	12 Weeks

STUDENT ACHIEVEMENTS

INTERNSHIP

51	Roshka R	Popular Systems	06.03.2024	30.05.2024	12 Weeks
52	Sharmila K	To Set Land Surveying Institute	08.04.2024	30.05.2024	8 Weeks
53	Surya N	Popular Systems	06.03.2024	30.05.2024	12 Weeks
54	Vaishnavi S	Popular Systems	06.03.2024	30.05.2024	12 Weeks
55	Vedhadharshini P	Popular Systems	06.03.2024	30.05.2024	12 Weeks
56	Vinod M	Popular Systems	06.03.2024	30.05.2024	12 Weeks
57	Agasthiya S	Popular Systems	06.03.2024	30.04.2024	8 Weeks
58	Akilankumar E M	Kongu Naadu tractors	25.12.2023	30.04.2024	16 Weeks
59	Arunavarshini K	Popular Systems	06.03.2024	30.04.2024	8 Weeks
60	Aswinchandran P	Edu Port	06.03.2024	05.05.2024	12 Weeks
61	Bhargavi P	Popular Systems	06.03.2024	30.04.2024	8 Weeks
62	Devendran S	Kubato Tractors	02.02.2024	05.05.2024	12 Weeks
63	Dhanush G	Kongu Naadu tractors & Popular Systems	25.12.2023	30.04.2024	16 Weeks
64	Dhanushya A	Kongu Naadu tractors	25.12.2023	30.04.2024	16 Weeks
65	Ebinesh R	Kongu Naadu tractors	25.12.2023	30.04.2024	16 Weeks
66	Hem Gowtham S	Kongu Naadu tractors	25.12.2023	30.04.2024	16 Weeks
67	Karunya J	Gomadhi Engineering Works	01.02.2024	10.05.2024	12 Weeks
68	Kishore Kannan A	Dams Agri India Private Limited	01.02.2024	30.04.2024	12 Weeks
69	Mano Ranjith A	Dams Agri India Private Limited	01.02.2024	30.04.2024	12 Weeks

STUDENT ACHIEVEMENTS

INTERNSHIP

70	Senthamilarasi B	Kongu Naadu tractors	25.12.2023	30.04.2024	16 Weeks
71	Sowmiya M	Popular Systems	06.03.2024	30.04.2024	8 Weeks
72	Nevetha P	Popular Systems	06.03.2024	30.04.2024	8 Weeks
73	Rajeshkumar P	JJ tractors	01.02.2024	30.04.2024	12 Weeks
74	Veerapathiran G	Gomadhi Engineering Works	01.02.2024	10.05.2024	12 Weeks
75	Rina C	Noviyo Creative Agency	01.02.2024	05.05.2024	12 Weeks
76	Sudharshan G	Kubato Tractors	02.02.2024	05.05.2024	12 Weeks
77	Tamil Anbu B	Kongu Naadu tractors & Popular Systems	25.12.2023	30.04.2024	16 Weeks

GLIMPSES OF INTERNSHIP



STUDENT ACHIEVEMENTS

NPTEL

S.NO	Year	Name of the Course	Name of the Student	Result (Successfully Completed Elite, Elite Silver, Gold)
1.	II	Fluid Mechanics	Mohana Shree MS	Successfully completed
2.	III	Watershed Hydrology	Preethi S	Successfully completed
3.	III	Modern Food Packaging Technologies: Regulatory Aspects and Global Trends	Santhiya T	Successfully completed
4.	III	Modern Food Packaging Technologies: Regulatory Aspects and Global Trends	Sindhuja J	Successfully completed
5.	III	Modern Food Packaging Technologies: Regulatory Aspects and Global Trends	Rasika T	Successfully completed
6.	IV	Post-Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop products	Purushothaman B	Successfully completed
7.	IV	Post-Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop products Post-Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop products	Vinoth M	Successfully completed
8.	IV	Post-Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop products	Pooja Jayalakshmi S	Successfully completed
9.	IV	Post-Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop products	Janani C	Successfully completed
10.	IV	Post-Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop products	Boopathi Ragavan J	Successfully completed
11.	IV	Post-Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop products	Aathisha J	Successfully completed
12.	IV	Post-Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop products	Sharmila K	Successfully completed
13.	IV	Post-Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop products	Kumares S	Successfully completed

Faculty CONTRIBUTION

a. Research Paper

1. Kavitha, E., Mohan, K., Arunkumar, G. E., & Udhayashakthi, R. Development of Sustainable Masonry Solid Blocks by the incorporation of Industrial And Agro Waste. Global NEST Journal, Vol 26, No 3, 05559. Feb-2024.
2. K.Mohan, Application of eco-friendly internal self-curing agents in geo-polymer concrete, AIP conference Proceedings, <https://doi.org/10.1063/5.0225012>, AIP Conf. Proc. 3146, 020015-1–020015-7
3. Kailashkumar.B and G.Vijayakumar, "Data Driven Farm Mechanization using Artificial Intelligence: A Review", Biological Farm-An International Journal: 16(5):92-97(2024), ISSN No: 0975-1130.

b. Patent Details

S.No	Title	Inventors/ Applicants Name	Application Number	Status
1	Hand operated Cement Quality Analyzing Device DOF: 20.03.2024	Mr. K. Mohan	419140-001	Granted on 06.06.2024
2	Air and Water Purification Device with Agro Waste using Solar Energy	1. Mr.Mohan.K 2.Mr.Dineshkumar.M 3.Dr.Vijayakumar.G 4.Dr.Dharmaraj.V 5.Mr.Pramothkumar.S	416940-001	Granted on 14.05.2024
3	Waste Water Treatment using Ice Apple Shell as Activated Carbon	Dr.G.Vijayakumar Mr.Dineshkumar.M	202441036904	Published
4	Design and Development of soil Auger cum Basin Former	Dr.V.Dharmaraj Mr.V.Gnanaprakash	202441037359	Published
5	Amplifying Agricultural advancement through enhanced connectivity	Mr.S.Pramothkumar Mr.A.Sivakumar	137380	Copyright
6	Production of Bioplastics Film using Agricultural Wastes for Packaging Dairy Products	Mrs.K.Lavanya Ms.V.Manuja Ms.A.Harini	202441037653	Published
7	Optimizing coir waste composting with organic and inorganic nitrogen source	Dr.S.Sapthagiri Mr.A.Sivakumar	202441037654	Published
8	Green option for dairy packaging using soy wax and Caenauba wax	Mrs.K.Lavanya Ms.V.Manuja Ms.A.Harini	202441038094	Published

FACULTY CONTRIBUTION

c.Paper Published in Conference

S. No	Faculty Name	Journal Name	Title of Paper	ISSN No/ DOI
1.	Dr.G.Vijayakumar	International Con. on Smart and Energy Technology –SEETCEA 2024	Waste water treatment using Ice Apple as activated Carbon	978-81-972823-5-5
2.	Mr.K.Mohan	International Con. on Smart and Energy Technology –SEETCEA 2024	Design and Manufacturing of air and water purification with agro waste using solar	978-81-972823-5-5
3.	S.Pramothkumar	International Con. on Smart and Energy Technology –SEETCEA 2024	Amplifying Agricultural Advancement through enhanced connectivity	978-81-972823-5-5
4.	K.Lavanya	International Con. on Smart and Energy Technology –SEETCEA 2024	Production of bio plastics film using Agricultural waste for packing dairy products	978-81-972823-5-5
5.	Dr.V.Dharmaraj	International Con. on Smart and Energy Technology –SEETCEA 2024	Design and Development of Soil auger cum Basin former	978-81-972823-5-5
6.	Dr.S.Sapthagiri	Int.Conference on Innovative Trends in Engineering and Science(ICTES – 2024)	Revitalizing coir waste sustainable composting	-
7.	Ms.A.Harini	National Conference on recent Advance in Agriculture	Green options for Dairy packing using soy wax and carnuba wax	978-93-340-4561-1

FACULTY CONTRIBUTION

d. Faculty Enrichment

Year	Name of the Faculty Member	Event Type	Title of the event	Name of the conducting Organization	Date
2024	Ms.A.Harini	Seminar	Emerging technologies in Agriculture	Saveetha Engineering College (Autonomous)	08-08-2024 and 09-08-2024
2024	Mr.M.Sowndhararajan	Seminar	Emerging technologies in Agriculture	Saveetha Engineering College (Autonomous)	08-08-2024 and 09-08-2024
2024	Mr. V. Gnanaprakash	Seminar	Emerging technologies in Agriculture	Saveetha Engineering College (Autonomous)	08-08-2024 and 09-08-2024
2024	Mr. S. Pramoth kumar	Seminar	Emerging technologies in Agriculture	Saveetha Engineering College (Autonomous)	08-08-2024 and 09-08-2024
2024	Mr. M. Dineshkumar	Seminar	Emerging technologies in Agriculture	Saveetha Engineering College (Autonomous)	08-08-2024 and 09-08-2024

STAFF CONTRIBUTION

d. Faculty Enrichment

2024	Mrs. S. Udhaya	Seminar	Emerging technologies in Agriculture	Saveetha Engineering College (Autonomous)	08-08-2024 and 09-08-2024
2024	Mr. A. Sivakumar	Seminar	Emerging technologies in Agriculture	Saveetha Engineering College (Autonomous)	08-08-2024 and 09-08-2024
2024	Mr. K. Mohan	Seminar	Emerging technologies in Agriculture	Saveetha Engineering College (Autonomous)	08-08-2024 and 09-08-2024
2024	Dr. G. Chandrasekaran	Seminar	Emerging technologies in Agriculture	Saveetha Engineering College (Autonomous)	08-08-2024 and 09-08-2024
2024	Dr. G. Vijayakumar	Seminar	Emerging technologies in Agriculture	Saveetha Engineering College (Autonomous)	08-08-2024 and 09-08-2024
2024	Dr. V.Dharmaraj	Seminar	Emerging technologies in Agriculture	Saveetha Engineering College (Autonomous)	08-08-2024 and 09-08-2024
2024	Dr.S. Sapthagiri	Seminar	Emerging technologies in Agriculture	Saveetha Engineering College (Autonomous)	08-08-2024 and 09-08-2024
2024	Mr.M.Sowndhararajan	Workshop	Emerging technologies in Agriculture	Hindusthan Institute of Science and Technology	15-10-2024 and 16-10-2024
2024	Ms.A.Harini	Workshop	Emerging technologies in Agriculture	Hindusthan Institute of Science and Technology	15-10-2024 and 16-10-2024
2024	Mr. S. Pramoth kumar	Workshop	Emerging technologies in Agriculture	Hindusthan Institute of Science and Technology	15-10-2024 and 16-10-2024
2024	Mr. V. Gnanaprakash	Workshop	Emerging technologies in Agriculture	Hindusthan Institute of Science and Technology	15-10-2024 and 16-10-2024
2024	Mrs. S. Udhaya	Workshop	Emerging technologies in Agriculture	Hindusthan Institute of Science and Technology	15-10-2024 and 16-10-2024

STAFF CONTRIBUTION

d. Faculty Enrichment

2024	Mr. M. Dineshkumar	Workshop	Emerging technologies in Agriculture	Hindusthan Institute of Science and Technology	15-10-2024 and 16-10-2024
2024	Mr. A. Sivakumar	Workshop	Emerging technologies in Agriculture	Hindusthan Institute of Science and Technology	15-10-2024 and 16-10-2024
2024	Mr. K. Mohan	Workshop	Emerging technologies in Agriculture	Hindusthan Institute of Science and Technology	15-10-2024 and 16-10-2024
2024	Mr.M.Sowndhararajan	Workshop	Emerging technologies in Agriculture	Hindusthan Institute of Science and Technology	15-10-2024 and 16-10-2024
2024	Dr. G. Vijayakumar	Workshop	Three days' workshop on VR drone technology	Mahendra Engineering college	13-07-2024 to 15-07-2024
2024	Mr. S. Pramoth kumar	Seminar	For attended a seminar on vertical farming: urban agriculture for a sustainable future	Sri Ramakrishna Engineering College (autonomous)	07-08-2024
2024	Dr. V.Dharmaraj	Conference	International conference on artificial intelligence in agricultural engineering	Dhanalakshmi Srinivasan university	05-06-2024 and 06-06-2024
2024	Mrs. S. Udhaya	Conference	International conference on artificial intelligence in agricultural engineering	Dhanalakshmi Srinivasan university	05-06-2024 and 06-06-2024
2024	Dr.S. Sapthagiri	Conference	International conference on artificial intelligence in agricultural engineering	Dhanalakshmi Srinivasan university	05-06-2024 and 06-06-2024
2024	Dr. G. Chandrasekaran	Conference	International conference on artificial intelligence in agricultural engineering	Dhanalakshmi Srinivasan university	05-06-2024 and 06-06-2024

