

## FACULTY PROFILE

Name : Dr.C.SUSHEELA  
Designation : PROFESSOR (AGRONOMY)  
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Mobile No. : 9842847182  
Area of Specialization : Rice Establishment Techniques  
Green manure crop seed production  
Years of Experience : 22 years

### Awards & Recognitions

S.No	Awards/recognition received	Year	National/State/University /College/Local
1.	Received MASU award for the best Ph.D thesis at TNAU, Coimbatore.	2009	University
2.	Award of ICAR junior fellowship for M.Sc. (Agri.)	1993-94	National

**Teaching :** UG courses from the year 2000 and PG courses from 2013 onwards.

UG courses taught : As Course Teacher : 27 As Course Associate : 26  
PG courses taught : 10

### Students Guided:

UG - Four batch UG project students in Agronomy  
PG - Three

### Extension Activity:

Special lectures delivered : Twenty

AIR talks : Three

Field visits : Four

REI meetings : One

Stall duty/

Exhibition in-charge : Four

### Study tours along with the UG students:

Short tour – Three times

Long Tour – Two times

### Member in Scientific Society /Association :

1. Life member in Indian Journal of Agronomy
2. Life member in Association of Rice Research Workers.
3. Life Member in Journal - Coastal Agricultural Research.
4. Life Member in Valarum Velanmai Tamil journal, TNAU, Coimbatore.

**Trainings undergone :** Five

**Conference/Seminars / Symposium/Webinar attended :** 19

**Publications:**

Research papers	Books	Book chapters	Popular article	Manuals (Teaching/Training /Topic in training manual)
5	-	-	13	17

**Students Career related task performed:**

- As a Staff Associate of Rotaract club, I have organized a Two days Seminar on Career Skill on 18.04.16 and 20.04.16 for the final year B.Sc.(Ag.) students of PAJANCOA & RI by inviting Dr.Shaik Alauddin as a resource person. Got fund from our college and Rotary club of Karaikal.
- As a year Co-Ordinator to 2006-07 batch students, I have organized a Special session on Group discussion and Interview by Dr.Shaik Alaudin, Professor (Agrl.Extn) to 2006-07 batch students on 31.10.10 to train them for Campus Interview by Indian Bank.
- Made arrangements for campus interview by Indian bank on 01.11.2010. Contacted the 2006-07 batch passed out students, informed them reg. campus interview date etc.

**Five students have got selected by the Indian Bank.**

**Institutional / Department Responsibility :**

Sl.No.	Duties / charges	Period		Duration
		From	To	
1.	Deputy Warden (Ladies Hostel)	21.03.22	Till date	
2.	Member of Students Welfare Committee	21.03.22	Till date	
3.	Agronomy Dept. Library in-charge	29.04.19	Till date	Three years
4.	PG Co-ordinator (Agronomy)	29.04.19	14.03.22	Two years and ten months
5.	Member of Internal Complaints Committee	23.12.17	26.12.20	Three years
6.	Farm Superintendent (Agronomy farms)	15.03.16	28.04.19	Three years
7.	Member of PAJANCOA Seed procurement and Sale price fixation committee	31.5.16	28.04.19	Three years
8.	Staff Associate Rotaract club	08.12.15	14.02.19	Three years
9.	Agronomy – UG and PG lab incharge.	09.01.13	14.03.16	Three years
10.	Department U.G coordinator	02.7.08	14.03.16	Seven years and eight months
11.	Department library maintenance	10.3.2008	15.3.09	One year
12.	Agronomy Department staff Leave Account Maintenance & preparation of turn duty chart for the farms on holidays	10.3.2008	15.3.09	One year
13.	Agronomy Department Monthly Report Compilation	10.3.2008 25.02.13	15.3.09 06.03.14	Two years
14.	Agronomy Dept.stores	25.02.13	06.03.14	One year
15.	Academic Year Co-ordinator for the 2006-07 batch B.Sc.(Ag) students	29.6.2007	14.12.11	Four years & five months
16.	Assistant Warden (Ladies Hostel)	17.10.2008	12.12.2010	Two years and one month

17.	Ward Counselor to 2008-09 batch 4 students	16.10.2008	2012	Four years
18.	Academic counselor to 2012-13 batch - 10 students	21.09.12	2016	Four years
19.	Farm Manager (Central farm yard)	11.01.2010	16.12.12	Two years & 11 months
20.	Farm Manager (Central farm yard)	30.12.02	03.10.04	One year & seven months
21.	Farm Manager (West farm)	June, 2000	July,2003	One year & 9 months

### Details of research projects handled as P.I/ Co-P.I

Completed : Eight

Ongoing : One

S.No.	Name of the scheme/ Project	Year/ Period	Closing Date	Position	Salient findings
1.	Evaluation of time of sowing for semi dry rice varieties in Karaikal region at PAJANCOA & RI, Karaikal	3 years 2000,2001 & 2003	2003	PI	Five varieties viz., TKM 9,ADT 36,ADT 43,ASD 20 & TRY1 were sown in June I Fortnight,June II Fortnight, July I fortnight & July II fortnight.Among the five varieties TRY 1 performed well in all the three years. ASD 20 performed well in 2001 & 2003. Among the four time of sowing, July II FN sowing was found to be the best followed by June II FN.
2.	Evolving Energy Saving Establishment Technique for Puddled Lowland Rice ( <i>Ph.D. Thesis research work</i> ) at TNAU, Coimbatore	2 years June 2005 to Jan.2007.	Jan.2007	Ph.D. Student	Broadcasting of 30 kg of sprouted seeds in both the directions in order to make equi-distribution, then making the rows and columns by passing rotary weeder at a distance of 25 cm x 25 cm on either directions, as early as 8-10 DAS and repeating again on 14-16 DAS, and following the rest of the practices as recommended to transplanted 'SRI' system can end with potential grain yield. Among the three methods of sowing vzi., broadcasting (3.56 t/ha), drum seeding (3.31 t/ha) & rice+ green manure seeding (3.11 t/ha), broadcasting and drum seeding gave

					comparable grain yield. Thinning the plant density significantly influenced the grain yield (3.48 t/ha) than no thinning (3.17 t/ha). There was more favourable effect on grain yield by two way rotary weeding (3.87 t/ha) than one way rotary weeding (2.79 t/ha). The grain yield given are from wetseason, 2006 crop in Co-43.
3.	Efficiency evaluation of mechanical weeders in transplanted rice ( <i>Ph.D. Topical Research work</i> ) at TNAU, Coimbatore	6 months June, 2006 to Sep. 2006.	Sep. 2006	Ph.D. Student	Application of Preemergence herbicide Butachlor @ 1 kg/ha on 3 DAT followed by mechanical weeding using single or double row rotary weeder on 30 – 40 DAS followed by one hand weeding to remove the weeds in between plants will control the weeds effectively in transplanted rice. The grain yield obtained was 6t/ha in PE herbicide followed by finger type single row rotary weeder & 5.89 t/ha in PE herbicide followed by finger type double row rotary weeder.
4.	AICRP - NSP (Crops) - STR Expts Pilot Project on “System of Rice Intensification”	Sept, 2008 to Feb, 2011 (Three years)	Feb, 2011	Scientist in charge (Agronomist)	Variety :TRY 1 Results revealed that in all the three years of study, Age of seedling had no significant difference in grain yield. So, the seedlings raised under SRI mat nursery could be planted from 10 DAS till 20 DAS without any significant difference in yield. But there was a significant difference in grain yield under various spacing (S) adopted. Under SRI 20 cm x 20 cm (4.45 -4.98 t/ha) and 25 cm x 25 cm (4.07-5.25 t/ha) can be followed as they had

					recorded higher grain yields.
5.	Accounting water productivity in SRI	Samba season 2010-11	2011	Co-ordinated to conduct the expt.	<p>CR 1009 variety. Since there was intermittent heavy rainfall during the cropping period, it vitiated the process of accounting of the water used under different treatments. Therefore water productivity could not be worked out. However grain yield was recorded.</p> <p>All the three methods of planting (SRI - 5.06 t/ha) Line planting - 5.57 t/ha and farmers' method of planting - 5.21t/ha) are comparable in grain yield. But the cost of cultivation on raising nursery, cost on seed, application of DAP to nursery, maintenance of nursery and pulling out and transport of seedlings in line planting and random planting is higher which can be reduced in SRI method. In SRI seed rate is lesser. With lesser nursery duration transplanting can be done in SRI.</p>
6.	AICRP - NSP (Crops) - STR Expts Comparison of System of Rice Intensification Vs Conventional Transplanting in Rice	Sept,2011 (Six months)	Feb,2012	Scientist in charge (Agronomist)	<p>There was no significance in grain yield due to methods of transplanting. But there was significant difference due to varieties. Among the varieties, TRY 3 recorded higher grain yield (52.09 q/ha) followed by ADT (R) 46 (49.88 q/ha) then by TRY 1 (49.67 q/ha). All the three are on par. TRY 1 &amp; TRY 3 are medium bold grains &amp; ADT (R) 46 is of long slender. The remaining three varieties are medium slender in nature and they are on par in grain yield. Since</p>

					they are medium bold in grain type they have higher market value than bold type grains. We can raise any of the six varieties under SRI without reduction in yield when compared to conventional method of transplanting. Among the six varieties each one is having uniqueness in their character. So depending upon the market demand, consumers preference any of the six varieties (White ponni , ADT 39, ADT (R) 46, TRY 1, TRY 3 & BPT 5204) can be raised. The yield difference in medium slender varieties could be compensated in quality and market rate of the grains.
7.	AICRP - NSP (Crops) - STR Expts Evaluation of SRI for enhanced seed yield and quality of hybrid rice	July,2012	April,2015	Scientist in charge (Agronomist)	The crop vitiated in 2012. In 2013, it was found that SRI method is suitable for hybrid seed production.
8.	Green manure seed production	2014	2015	Scientist in charge	The green manure crops were raised in 2014. The green manure daincha was also raised in 2015 for seed production.
9.	Seed production of Green manure crops	2021	Till date	PI	Daincha crop is raised in the year 2022 in about two acres.

#### Undergraduate student project guided

S. No.	Project Title	Period		Number of students guided
		From	To	
1.	TAU 416 Project Work (0+1) IV year (2009-10 batch) Optimizing the spacing for seed production of two green manure crops viz., Daincha ( <i>Sesbania aculeata</i> ) and Manila agathi ( <i>Sesbania rostrata</i> )	20.11.12	27.4.13	Three
2.	TAU 416 Project Work (0+1) IV year (2010-11 batch) Studies on the influence of varied spacing and number of plants per hill on seed yield of daincha ( <i>Sesbania aculeata</i> )	28.11.13	07.5.14 (Evaln.)	Four
3.	APW 401 Project work (0+4) IV yr.VII sem (2011-12 batch) Studies on the influence of varied spacing and number of harvests on seed yield of daincha ( <i>Sesbania aculeata</i> )	03.6.14	April,2015	Three

4.	APW 401 Project Work (0+4) – 2012-13 batch VII & VIII sem. Estimation of seed yield of sunn hemp ( <i>Crotalaria juncea</i> ) under different plant geometry.	2015	2016	Three
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#### Postgraduate student project guided

S. No.	Title of the Thesis	Name of the student & Year
1.	Studies on the effect of varieties and plant geometry on the performance of Barn yard millet in Coastal areas of Karaikal.	V.Kamalarani 2018
2.	Influence of Crop Geometry on Growth and Seed Yield of Sunnhemp ( <i>Crotalaria juncea</i> L.) in the Coastal Deltaic Region of Karaikal.	N. Sivamani 2018
3.	Studies on the influence of different date of sowing and spacing on seed yield of sunhemp.	V.Ramkumar 2021

#### Participation in Training / Conference / Seminar / Symposium/workshops

Sl. No.	Name of the event	Period		Duration (days)
		From	To	
	<b>Training /Summer school</b>			
1.	Recent Advances in Irrigation Management for field crops	22.01.2002	11.02.2002	21 days
2.	Post harvest technology of paddy and analytical methods	21.5.2003	23.5.2003	3 days
3.	First Faculty Development Programme in Educational Technology	03.12.2003	23.12.2003	21 days
4.	Commercial Agriculture	21.01.2008	10.02.2008	21days
5.	Cyclone Management organized by MANAGE, Hyderabad - Online	27.7.2020	05.8.2020	10 days
	<b>Conference / Seminar/Webinar /Symposium</b>			
1.	8 <sup>th</sup> Agricultural Science Congress-organized by National Academy of Agrl.Sciences, New Delhi TNAU, Coimbatore	15.02.2007	17.02.2007	3 days
2.	National symposium on Research Priorities and Strategies in Rice Production system for Second Green Revolution – organized by Association of Rice Research Workers, Central Rice Research Institute and ICAR at Cuttack	20.11.2007	22.11.2007	3 days
3.	First Annual Educational Meet-organized by TNAU, Coimbatore	29.5.2008	30.5.2008	2 days

4.	3 <sup>rd</sup> National symposium on System of Rice Intensification - organized by TNAU, Coimbatore	01.12.2008	03.12.2008	3 days
5.	Attended International Conference on Conventional & Non-conventional organic inputs in Agriculture at Pondicherry on 16.8.13 & 17.8.13 Organised by Dept. of Economics, Annamalai University, Wherever the need India services(Pondicherry) & Centre for Sustainable Development (Cuddalore)	16.8.13	17.8.13	Two days
6.	Attended National symposium on Education and Health – A road map for a Sustainable future at Avvaiyar Govt.Arts college for Women, Karaikal.	19.03.15	20.03.15	Two days
7.	Attended Webinar on Financial services for inclusive growth organized by KIA.	04.7.20	04.7.20	One day
8.	Attended Webinar on Micro, small and medium enterprise in India: Issues and challenges during covid 19 lock down period organized by Alagappa University.	10.7.20	10.7.20	One day
9.	Attended Webinar on Front line extension in Agriculture organized by KIA.	18.7.20	18.7.20	One day
10.	Attended Webinar on Can India solve its farmer's plight and become food bowl of the World organized by Biotecnika Info Labs Pvt Ltd.	22.7.20	22.7.20	One day
11.	Attended Webinar on Ultra high density planting in fruit crops organized by KIA.	08.08.20	08.08.20	One day
12.	Attended Webinar on Keep Soil Alive, Protect Soil Biodiversity	05.12.20	05.12.20	One day
13.	Attended Webinar on Food System Approach to Nutritional Security: Role of Agricultural Higher Educational System in India	06.02.21	06.02.21	One day
14.	Attended Webinar on Weed management	12.03.21	12.03.21	One day
15.	Attended Webinar on Mental Health during COVID	06.05.21	06.05.21	One day
16.	Attended Webinar on Aquatic weeds: Problems and their management for improving water productivity	29.05.21	29.05.21	One day



17.	Attended Webinar on Role of Weed Biology in improving Weed Management strategies	22.06.21	22.06.21	One day
18.	Attended Webinar on Entrepreneurship development programme	23.07.21	23.07.21	One day
19.	Attended Webinar on Parthenium weed problem and its management at the global level by Steve W. Adkins	16.08.21	16.08.21	One day