

## PROFESSIONAL PROFILE

### ***Dr. Senthilkumar Shanmugasundram, Ph.D.,***

Assistant Professor

Department of Horticulture

School of Life Sciences

Central University of Tamil Nadu (CUTN)

Neelakudi Campus, Thiruvarur (INDIA) - 610 005

E-mail ID: [senthilkumar@cutn.ac.in](mailto:senthilkumar@cutn.ac.in)



### Educational Qualification

Institute / University	Degree/Profession	Year(s)	Field of Study
Agricultural College and Research Institute, Killikulam (TNAU, Coimbatore)	B.Sc.	2005-2009	Agriculture
Horticultural College and Research Institute, Coimbatore (TNAU, Coimbatore)	M.Sc.	2009-2011	Horticulture
Horticultural College and Research Institute, Coimbatore (TNAU, Coimbatore)	Ph.D.	2011-2014	Fruit Science

### Expertise

**Research:** Nursery & Crop Management, Propagation & Rootstocks, Crop Regulation (Tropical & Subtropical Fruits), Sustainable Horticulture, Minor Fruits

**Teaching:** Fundamentals of Horticulture, Plant Propagation & Nursery Management, Tropical & Arid Fruit Crops, Canopy Regulation & Organic Horticulture, Dryland Fruit Crops, Subtropical & Temperate Fruit Crops

### Academic / Research Positions

2019 - Till Date	Assistant Professor, Central University of Tamil Nadu, Thiruvarur (India)
2018 - 2019	Assistant Professor, Faculty of Agricultural Sciences, SRM Institute of Science and Technology, Chennai (India)
2015 - 2018	Assistant Professor in Horticulture, School of Agriculture, Lovely Professional University, Punjab (India)
2014 - 2015	Assistant Professor in Horticulture, RVS Padmavathy College of Horticulture, Sempatti, Affiliated to TNAU, Coimbatore (India)

## Awards / Honors / Academic Merits

Year	Award	Awarding Body/Institute	Level
2023	Young Horticulturalist Award-2023	Sher-e-Kashmir University	International
2023	Best Presentation Award	Sher-e-Kashmir University	International
2022	Young Horticulturalist Award-2022	Tribhuvan University, NEPAL	International
2022	3 <sup>rd</sup> Prize Award for innovative ideology in designing IAES model to CUTN	Ministry of Education - Institute Innovation Council, New Delhi	National
2021	Best Researcher Award	VD Good Professional Association	International
2020	Young Horticulturalist Award	AEDS, Uttar Pradesh, INDIA	National
2018	Excellence in Research Award	SSDAT, Rajasthan, INDIA	National
2017	Young Scientist in Horticulture Award	Venus International Foundation Chennai, INDIA	National
2017	Young Faculty Award in Agriculture	EET CRS, Kolkata, INDIA	National
2017	ICAR-NET	ASRB, New Delhi, INDIA	National
2017	Young Scientist Award (Horticulture)	SAID, Kathmandu NEPAL	International
2017	Young Teacher Award	SAID, Kathmandu NEPAL	International
2014	2 <sup>nd</sup> Prize Award in Oral Presentation	TNAU, Coimbatore, INDIA	National
2013	2 <sup>nd</sup> Prize Award in Horticulture	ICAR, New Delhi, INDIA	National
2013	Best Oral Presentation Award	Navsari Agricultural University, Gujarat, INDIA	National

## Research Publications

1. **Senthilkumar S.**, Ravi Kiran Reddy Kondi, K. Praveen Kumar, S. Manoj Kumar, P. Raja Reddy, S. Sravani. 2023. A study of certain organic inputs on phenological, yield and quality related traits of Strawberry (cv. Camarosa) in pot culture. *Emer. Life Sci. Res.* 9(1): 77-82 [NAAS: 5.41] DOI: <https://doi.org/10.31783/elsr.2023.917782>
2. **Senthilkumar, S.**, R.M. Vijayakumar, K. Soorianathasundaram and D. Durga Devi. 2018. Impact of Pre-harvest Sprays with Gibberellic Acid on Yield and Economics of Grape (*Vitis vinifera* L.) cv. Italia. *Annals of Biology*, 34(2): 170-175. [NAAS: 4.08, Indexed in Scopus - SJR rating: 0.10]
3. **Senthilkumar, S.**, R.M. Vijayakumar, K. Soorianathasundaram and D. Durga Devi. 2018. Role of CPPU and Application Stages with Other PGR's on Bunch and Berry Characters in New Grape cv. Italia under Tamil Nadu Conditions. *Int.J.Curr.Microbiol.App.Sci.*, 7(04): 353-358. [NAAS: 5.38]

4. **Senthilkumar, S.**, N. Kumar, K. Soorianathasundaram and K. Arun Kumar. 2016. Grafted papayas: a boon for dioecious papaya industry. *Current Science*, 111(8): 1287-1288. [NAAS: 6.93, Indexed in Scopus - SJR rating: 0.29]
5. **Senthilkumar, S.**, N. Kumar and K. Soorianathasundaram. 2016. Influence of season on graft compatibility in papaya cvs. Co.2 and 9-1(D). *The Ecoscan, Special issue, Vol. IX*: 415-419. [NAAS: 5.06]
6. **Senthilkumar, S.**, R.M. Vijayakumar and K. Soorianathasundaram. 2016. Influence of pruning severity on quality attributes in berries of grape cv. Italia. *Journal of Chemical and Pharmaceutical Sciences*, 9(4): 2890-2894 [Indexed in Scopus - SJR rating: 0.15]
7. **Senthilkumar, S.**, N. Kumar, K. Soorianathasundaram and P. Jeyakumar. 2016. A Histological Investigation on Graft Formation in Papaya (*Carica papaya* L.). *Eco. Env. & Cons.*, 22(December Suppl.): 69-72. [NAAS: 5.02; Indexed in Scopus - SJR rating: 0.12]
8. **Senthilkumar, S.**, N. Kumar, K. Soorianathasundaram and P. Jeyakumar. 2015. Effect of GA<sub>3</sub> and 6-Benzyl Adenine in Production of Scions for Grafting in Papaya Cv. 9-1(D). *Eco. Env. & Cons.*, 21(2): 939-941. [NAAS: 5.02; Indexed in Scopus - SJR rating: 0.13]
9. **Senthilkumar, S.**, N. Kumar, K. Soorianathasundaram and P. Jeyakumar. 2014. Effect of plant bioregulators in induction of lateral shoots in papaya cv. CO2. *Plant Archives*, 14(2): 707-710. [NAAS: 3.05; Indexed in Scopus - SJR rating: 0.07]
10. **Senthilkumar, S.** and R.M. Vijayakumar. 2014. Influence of Pruning Severity on Phenology, Physiological Characters and Yield Attributes in Grape (*Vitis vinifera* L.) cv. Italia. *Trends in Biosciences*, 7(13): 1452 - 1457. [NAAS: 2.74]
11. **Senthilkumar, S.** and R.M. Vijayakumar. 2014. Petiole Nutrient Status, Yield and Quality of Grape (*Vitis vinifera* L.) cv. Italia as Influenced by Pruning Levels. *Trends in Biosciences*, 7(12): 1249 - 1253. [NAAS: 2.74]
12. **Senthilkumar, S.** and N. Kumar. 2014. Comparative Performance of Papaya Grafts and Seedlings on Growth and Leaf Gas-Exchange Activity Under Field Condition. *Trends in Biosciences*, 7(10): 942 - 945. [NAAS: 2.74]

#### Review Articles (First/Corresponding author)

1. Pradeep. M, **S. Senthilkumar**, A. Ramesh Kumar and S. Manivannan. 2023. Essentiality and Role of Hydrogel Technologies in Commercial Horticulture Production. *Water and Energy International*, Vol (66)/RNI, NO. 1, 15-18 [Indexed in Scopus - SJR rating: 0.11]
2. Karthiga P, **S Senthilkumar**, S Srivignesh and S Manivannan. 2023. Advances in enhancement of nutraceutical values through omics technologies in vegetables. *The Pharma Innovation Journal*, 12(3): 4830-4837 [NAAS: 5.23]

3. Ronak Meena, **S. Senthilkumar** and S. Manivannan. 2022. Senile Orchard Management System in Tropical Fruit Production. *International Journal of Agriculture, Environment and Biotechnology*, 15(04): 861-866 [Peer reviewed journal; NAAS: 4.54]
4. Manonmani, S., **S. Senthilkumar** and S. Manivannan. 2022. Multilevel functionality of biostimulants in sustainable horticulture for modern era. *The Pharma Innovation Journal*, 11(10): 1283-1288 [NAAS: 5.23]
5. Manonmani, S., **S. Senthilkumar** and S. Manivannan. 2022. Application of Artificial Intelligence in Fruit Production: A Review. *Agricultural Science Digest (Online article)* Doi: <https://arccjournals.com/journal/agricultural-science-digest/D-5482> [Peer reviewed journal; Indexed in Scopus - SJR rating: 0.16]
6. Jinto James, **S. Senthilkumar** and S. Manivannan. 2022. Rebooting the value of traditional knowledge in scientific fruit farming. *Eco. Env. & Cons.* 28 (January Suppl. Issue), S194-S199 [NAAS: 5.41] DOI: <http://doi.org/10.53550/EEC.2022.v28i01s.028>
7. Vijayalakshmi, K., **S. Senthilkumar**, U.S. Akshara Govind and S. Manivannan. 2022. Importance and possible approaches in adoption of indoor fruit culture for Indian families. *International Journal of Current Research and Review*, 14(4): 34-39 DOI: <http://dxdoi.org/10.31782/IJCRR.2022.14406> [Peer reviewed journal]
8. Afiya, R.S., **S. Senthilkumar** and S. Manivannan. 2021. Recent trends with mutation breeding in fruit crop improvement. *Plant Cell Biotechnology and Molecular Biology*, 22(71&72): 393-403 [NAAS: 4.88, Indexed in Scopus - SJR rating: 0.13]
9. Vidhya, C., **S. Senthilkumar** and S. Manivannan. 2021. Recent trends in production of dry flowers and foliages. *The Pharma Innovation Journal*, 10(11): 2135-2139 [NAAS: 5.23]
10. Divyabharathi, G., **Senthilkumar, S.**, Akshara Govind, U.S., and Manivannan, S. 2021. Novel techniques in promoting the production of high value low value fruit crops. *International Journal of Agricultural Sciences and Veterinary Medicine*, 9(4): 26-29 [Peer reviewed journal]
11. **Senthilkumar, S.**, R.M. Vijayakumar and K. Soorianathasundaram. 2018. Pre-harvest implications and utility of plant bioregulators on grape: A review. *Plant Archives*, 18(1): 19-27. [NAAS: 4.41, Indexed in Scopus - SJR rating: 0.16]
12. Rupinder Singh, **S. Senthilkumar** and Shailesh Kumar Singh. 2018. Role of Packaging on Shelf Life and Quality of Kinnow – A Review. *Journal of Pure and Applied Microbiology*, 12(2): 725-731 [NAAS: 4.00, Indexed in Scopus - SJR rating: 0.12]
13. Amanjot Singh, **S. Senthilkumar**, Madhu Sharma and Shailesh Kumar Singh. 2018. Impact of mulching and planting density of phenology, yield and fruiting characters of strawberry (*Fragaria x Ananassa* Duch.) cv. Winter Dawn. *Plant Archives* 18(2): 1899-1904 [NAAS: 4.41, Indexed in Scopus - SJR rating: 0.16]
14. Anis Ahmed Mirza, **S. Senthilkumar** and Shailesh Kumar Singh. 2016. A review on trends and approaches in post harvest handling of pineapple. *Journal of Chemical and Pharmaceutical Sciences*, 9(4): 2885-2889 [Indexed in Scopus - SJR rating: 0.15]

15. **Senthilkumar, S.**, R.M. Vijayakumar, and S. Kumar. 2015. Advances in precooling techniques and their implications in horticulture sector: A Review. *International Journal of Environmental and Agriculture Research*, 1(1):24-30 [Peer reviewed journal]
16. **Senthilkumar, S.**, R.M. Vijayakumar, K. Soorianathasundaram and D. Durga Devi. 2015. Effect of pruning severity on vegetative, physiological yield and quality attributes in grape (*Vitis vinifera* L.)- A Review. *Current Agriculture Research Journal*, 3(1): 42-54 [Peer reviewed journal]
17. **Senthilkumar, S.**, N. Kumar, K. Soorianathasundaram and P. Jeyakumar. 2014. Aspects of asexual propagation in papaya (*Carica papaya* L.) – a review. *Agri. Review*, 35(4): 307-313 [NAAS: 3.31]
18. **Senthilkumar, S.** and R.M. Vijayakumar. 2014. Advances in Post Harvest Handling of Grapes: A Review. *Trends in Biosciences*, 7(13): 2349 - 2352 (NAAS: 2.74)
19. **Senthilkumar, S.** and R.M. Vijayakumar. 2014. Biochemical, Physiological and Horticultural Perspectives of Fruit Colour Pigmentation: A Review. *Research and Reviews: J of Agrl. and Allied Sci.*, 3(1): 9-16 [Peer reviewed journal]

## Book Chapters

Name of the Book	ISBN No.	Title of the Chapter	Year	Publisher
Impact of Climate Change Mitigation and Adaptation	978-93-9279-803-0	Essentiality of horticulture in soothing the impact of climate change	2023	SSDN Publishers and Distributors, New Delhi
Impact of Climate Change Mitigation and Adaptation	978-93-9279-803-0	Adaptation strategies towards climate change in fruit production: Present and Future	2023	SSDN Publishers and Distributors, New Delhi
Advances in Horticulture Vol. 27	978-93-5570-446-7	Modern mutation breeding approaches for improving fruit crops	2022	Akinik Publications, Delhi
Interdisciplinary Approaches in Agriculture and Agroforestry	978-93-92313-22-6	Impacts of flooding stress in fruit crops and its adaptation strategies	2022	Taran Publication, New Delhi
Interdisciplinary Approaches in Agriculture and Agroforestry	978-93-92313-22-6	Irradiation practices over fresh and fresh-cut fruits and vegetables	2022	Taran Publication, New Delhi

Interdisciplinary Approaches in Agriculture and Agroforestry	978-93-92313-22-6	Transgenics in vegetable crops and its impact on the environment	2022	Taran Publication, New Delhi
Tropical Fruit Crops <i>Theory to Practical</i>	978-93-90611-68-3	Sapota ( <i>Manilkara achras</i> (Mill.) Fosberg)	2021	Jaya Publishing House, Delhi
Sustainable Horticulture, Volume 1: Diversity, Production, and Crop Improvement	9781315147994	Impact of various pruning levels on petiole nutrient status, physiology, yield and quality of grape ( <i>Vitis vinifera</i> L.) cv. Italia	2018	Apple Academic Press CRC (Taylor & Francis Group)
Recent trends in cocoa production	978-93-80819-09-9	Integrated Nutrient Management in Cocoa	2015	Think Refill, Nagercoil
Thottakkalaiyiyal (Tamil)	978-93-87702-58-9	Pappaliyil Ottukkattum Tholilnutpam - Oru Aayvu	2013	Thannambikkai

## Book of Abstracts

1. Ranjith, R.K., **S. Senthilkumar** and S.Manivannan. 2023. 'Influence of plant bio-regulators on fruiting and yield in pomegranate var. Bhagwa under Tamil Nadu conditions'. 5<sup>th</sup> International Conference on Climate Change and its Impact CCI-2023 at Sher-e-Kashmir University, Srinagar (Kashmir) [ISBN No. 978-93-5396-006-3]
2. Afiya, R.S. and **S. Senthilkumar**. 2022. 'Response of bud induction in pineapple over applied plant bioregulators'. 4<sup>th</sup> *International Conference on GAFEF-2022* at Pokhara (Nepal) [ISBN No. 978-935659453-1]
3. Alakendu, P.R., **S. Senthilkumar** and S.Manivannan. 2022. 'Performance assessment of waterapple (*Syzygium Aqueum* L.) in Cauvery delta of Tamil Nadu'. 4<sup>th</sup> *International Conference on GAFEF-2022* at Pokhara (Nepal) [ISBN No. 978-935659453-1]
4. **Senthilkumar, S.**, R.M. Vijayakumar, K. Soorianathasundaram and D. Durga Devi. 2017. 'Impact of gibberellic acid and stage of application on berry development, yield and quality of grape (*Vitis vinifera* L.) cv. Italia' in *International Conference on Advances in Agricultural & Applied Sciences for Promoting Food Security* at Kathmandu (Nepal) [ISBN No. 978-93-84113-41-4]
5. **Senthilkumar, S.**, R.M. Vijayakumar, K. Soorianathasundaram and D. Durga Devi. 2016. Impact of various pruning levels on petiole nutrient status, physiology, yield and quality of grape (*Vitis vinifera* L.) cv. Italia. *International Symposium on Sustainable Horticulture*, Mizorum University, Aizawl (Mizorum) [ISBN No. 978-93-85777-36-3]

6. **Senthilkumar, S.**, Anis Ahmed Mirza, Shailesh Kumar Singh and Madhu Sharma. 2016. Impact of Recent Techniques in Post Harvest Handling of Grape. *National Conference on Food Processing and Technology*, Shoolini University, Solan (Himachal Pradesh) [ISBN No. 978-93-82068-754]

### Trainings / Workshops / Camps Attended

Details	National / International	Month & Year
Virtual workshop on 'Effective drafting and filing of patents' organized by IQAC & Centre for Intellectual Property Rights, Annamalai University (1 day)	National	November, 2022
Training programme on 'Intellectual Property' under National Intellectual Property Awareness Mission, GOI (1 day)	National	November, 2022
Workshop on 'Techno-pedagogical tools & techniques' organized by Team MOOCsICT @ CUTN	National	July, 2021
Online national training on 'Value Chain and Marketing of Horticultural Products for Entrepreneurial Development' by ICAR NAHEP-CAU, Pasighat (3 days)	National	February, 2021
Post-harvest management and value addition in horticultural crops for budding startups conducted by ICAR NAHEP-CAU, Pasighat (3 days)	National	October, 2020
Indian Agricultural Education System and Entrepreneurship Scope in 21st Century (10 days e-training) conducted by ICAR and Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola	National	August, 2020
'How to write and publish scientific articles and manuscripts' conducted by SPRINGER NATURE	National	April, 2018
'Microbial Detection and Disease Diagnostics Using Real Time PCR' conducted by HRDC, LPU in collaboration with Fisher scientific	National	February 2018
'Entrepreneurial Skill Development Training on value addition and Export Promotion of Jasmine' conducted under NAIP PROJECT	National	May 2014
NAIP-AGRI BUSINESS IDOL CAMP	National	May, 2014

## Positions in Scientific Journals

Name of the Journal	Position
Fruits (Indexed in Scopus and Thompson Reuters)	Reviewer
Current Science (Indexed in Scopus and Thompson Reuters)	Reviewer
International Journal of Agriculture Sciences	Reviewer
African Journal of Agricultural Research	Reviewer
Indian Journal of Engineering Research and Technology	Reviewer

## Committee Member / Fellow of Academics / Institutions / Professional bodies

Name of the Institute/ Journal / Magazine / Event	Position
North-Eastern Hill University, Meghalaya (India)	External Examiner - PG Horticulture (July, 2023)
Central University of Tamil Nadu, Thiruvarur	Member, CUTN - Integrated Farming System (December, 2022)
Bhrathidasan University, Tiruchirapalli (Tamil Nadu)	External Examiner - PG Environmental Science (November, 2022)
Central University of Tamil Nadu, Thiruvarur	Committee member for CUTN Seventh convocation (September, 2022)
4 <sup>th</sup> <i>International Conference on GAFEF-2022</i> at Pokhara (Nepal)	Rapporteur - Session on Climate Change and its impacts (September, 2022)
Central University of Tamil Nadu, Thiruvarur	Committee member for preparation of annual report (2022)
Central University of Tamil Nadu, Thiruvarur	Organizing Committee member in Two-Day Climate Change Conference (July, 2022)



Central University of Tamil Nadu, Thiruvavur	Organizing Committee member in Faculty Development Programme (March, 2021)
Central University of Tamil Nadu, Thiruvavur	Core Committee member for NAAC-SSR (2020)
Central University of Tamil Nadu, Thiruvavur	Convener - Venue decoration Committee for Convergence (May, 2022)
SRM Institute of Science and Technology, Chennai	Faculty member (BOS) (2018-2019)
Lovely Professional University, Punjab	PAC member (2017-18)
Lovely Professional University, Punjab	ICAR-SSR Steering Committee member for ICAR accreditation (2017-18)
Journal of Biological Sciences and Scientific Research	Member (Editorial Board)
Readers Shelf (ISSN No. 2321-7405)	Member (Editorial Board)
Agriculture Letters (ISSN 2582-6522) 2022	Editor (Special issue - Organic Horticulture)
e Scientia Letters	Member (Editorial Board)
Society for Advancement of Science and Rural Development	Life member
Society for Agriculture Innovation & Development	Life member

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### Academic / Administrative responsibilities

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Name of the Institute / Organization	Position
Central University of Tamil Nadu, Thiruvavur	Member - CUTN Skill Hub Initiatives, GOI (July, 2023 onwards)

Vellore Institute of Technology, Vellore (India)	External Member - Doctoral Advisory Committee (April, 2023 onwards)
Indira Gandhi National Open University (IGNOU), New Delhi	Academic Counselor (December, 2022 onwards)
Central University of Tamil Nadu, Thiruvarur	Member - Campus Rejuvenation Committee (December, 2022 onwards)
Central University of Tamil Nadu, Thiruvarur	NSS Programme Officer (August, 2022 onwards)
Central University of Tamil Nadu, Thiruvarur	National Education Policy Implementation Committee member (2022 onwards)
Central University of Tamil Nadu, Thiruvarur	NAAC Core Committee member - Criteria V (2021 onwards)
Central University of Tamil Nadu, Thiruvarur	Department Mentor for MOOCs/SWAYAM (2021 onwards)
Central University of Tamil Nadu, Thiruvarur	Faculty member (BOS) (2020 onwards)
Central University of Tamil Nadu, Thiruvarur	Departmental syllabus & curriculum development committee member for PG, Ph.D. & B.Voc. Organic Farming (2020 onwards)
Central University of Tamil Nadu, Thiruvarur	Nodal faculty - Extension activities of department (2020 onwards)
Central University of Tamil Nadu, Thiruvarur	Seminar Leader & Academic Coordinator (Horticulture) (2020 onwards)

SRM Institute of Science and Technology, Chennai	Academic Coordinator (UG) (2018-2019)
Lovely Professional University, Punjab	School Academic Counselor & Faculty facilitator to Student organization AGRINIANS (2016-2018)
RVS Padmavathy College of Horticulture, Sempatti (Affiliated to TNAU, Coimbatore)	Year Coordinator (UG) (2014-2015)
RVS Padmavathy College of Horticulture, Sempatti (Affiliated to TNAU, Coimbatore)	Academic Coordinator (UG) (2014-2015)

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### Invited Talks / Keynote speaker/ Panelist

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Title of the talk and Institute	Position, Month & Year
Impact of Climate Change on Biodiversity (In Sensitisation programme organized by Thiruvalluvar College, Papanasa, Tamil Nadu)	Panelist October, 2022
Horticultural Interventions for Ecological Restoration in Nilgiris (In Farmers awareness programme organized by Tamil Nadu Ecosystem restoration movement)	Invited Speaker May, 2022
Stress Management in Human through Horticulture (In Happiness Workshop organized by Centre for Happiness, CUTN, Thiruvarur)	Resource Person February, 2022
Adapting Indigenous Knowledge in Sustainable Horticulture for Modern Era (National Level Web Conference on 'Emerging trends in Agricultural Science and Technology' organized by Kalasalingam School of Agriculture and Horticulture, Krishnankoil, Tamil Nadu - 626126)	Keynote Speaker July, 2021
Role of Horticulture in Mitigating Climate Change (In UGC Stride 10 days FDP on 'Mitigating Climate Change' organized by Centre for Climate Change CUTN, Thiruvarur)	Resource Person April, 2021

Modern trends in protected cultivation of High Value Horticultural Crops  
(For UG Agriculture students in VIAL - Vellore Institute of Technology,  
Vellore)

Guest lecturer  
October, 2020

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### International Exposure

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Name of the Symposium / Conference & Purpose	Country
4 <sup>th</sup> <i>International Conference on GAFEF-2022</i> (Oral presentation of dissertation work by PG Scholar who completed under guidance)	Pokhara (NEPAL)
International Conference on Advances in Agricultural & Applied Sciences for Promoting Food Security (Oral presentation of Ph.D. Research work)	Kathmandu (NEPAL)
5 <sup>th</sup> International Symposium on Tropical and Subtropical Fruits (Oral presentation of PG Research work)	Guangzhou (CHINA)

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### Syllabus and Course Planner (UG Agriculture)

1. AGR121 – Horticulture Laboratory (LTP: 0:0:2 - 1 Credit Course)
2. AGR122 – Fundamentals of Horticulture (LTP: 2:0:0 - 2 Credit Course)
3. AGR523 – Laboratory in Horticultural Crops (LTP: 0:0:2 - 1 Credit Course)

### Syllabus and Course Planner (PG Horticulture in Fruit Science)

1. AGR519 – Protected Cultivation and Organic Horticulture (LTP: 2:0:0 - 2 Credit Course)
2. HRT501 – Tropical and Dryland Fruit Production (LTP: 2:0:0 - 2 Credit Course)
3. HRT502 – Tropical and Dryland Fruit Production Laboratory (LTP: 0:0:2 - 1 Credit Course)
4. HRT521 – Subtropical and Temperate Fruit Production (LTP: 2:0:0 - 2 Credit Course)
5. HRT522 – Subtropical and Temperate Fruit Production Laboratory (LTP: 0:0:2 - 1 Credit Course)

## Research Guidance (PG Horticulture)

S.No.	Name & Institute	Title of Thesis / Dissertation	Duration	Status
1	Varsini K Reg. No.: P212519 CUTN, Thiruvarur	Studies on propagation techniques in Lotus ( <i>Nelumbo nucifera</i> Gaertn.)	2022-2023	Awarded
2	Ronak Meena Reg. No.: P212511 CUTN, Thiruvarur	Standardization of optimum propagation technique for water apple towards the production of elite planting material	2022-2023	Awarded
3	Amudhamathi E Reg. No.: P212501 CUTN, Thiruvarur	Competitive and complementary effect of rootstocks on sweet orange cultivars	2022-2023	Awarded
4	Vidhya C Reg. No.: P202520 CUTN, Thiruvarur	Influence of potting media composition and bulb treatments on growth, flowering and vase life of tuberose ( <i>Polianthus tuberosa</i> Linn.) var. Arka Prajwal	2021-2022	Awarded
5	Dinesh Kumar L Reg. No.: P202505 CUTN, Thiruvarur	Influence of pruning severity on the performance of water apple ( <i>Syzygium aqueum</i> L.) in Cauvery delta	2021-2022	Awarded
6	Afiya RS Reg. No.: P202501 CUTN, Thiruvarur	Rapid propagation of pineapple ( <i>Ananas comosus</i> L. Merr.) through non-conventional explants	2021-2022	Awarded
7	Vijayalakshmi K Reg. No.: P192519 CUTN, Thiruvarur	Discerning of anti microbial peptides (AMPs) from whole genome sequenced nut crops	2020-2021	Awarded
8	Ranjith RK Reg. No.: P192514 CUTN, Thiruvarur	Studies on yield and quality of pomegranate var. Bhagwa as affected by plant bio-regulators	2020-2021	Awarded
9	Manonmani S Reg. No.: P192509 CUTN, Thiruvarur	Effect of pre-harvest sprays with plant bio-regulator on bunch character, yield and economics of banana cvs. Poovan and Monthan	2020-2021	Awarded

10	Alakendu PR Reg. No.: P192502 CUTN, Thiruvarur	Influence of canopy directions on the performance of water apple ( <i>Syzigium aqueum</i> L.) in Cauvery Delta	2020-2021	Awarded
11	Sachin Mathew Reg. No.: 11617708 LPU, Punjab	Influence of certain nutrient management practices on phenology, bunch characters and yield in banana cv. Grand Naine	2017-2018	Awarded
12	Pardeep Singh Reg. No.: 11615293 LPU, Punjab	Studies on various pre-harvest sprays on growth, bunch development and yield of banana cv. Grand Naine under Punjab conditions	2017-2018	Awarded
13	Kuldeep Singh Reg. No.: 11615292 LPU, Punjab	Studies on rootstock and identification of elite commercial mango graft combination for Punjab conditions	2017-2018	Awarded
14	Rupinder Singh Reg. No.: 11510881 LPU, Punjab	Studies on various packaging materials on fruit quality and shelf life of Kinnow	2016-2017	Awarded
15	Amanjot Singh Reg. No.: 11407478 LPU, Punjab	Effect of mulching and planting density on yield and quality of strawberry ( <i>Fragaria</i> × <i>ananassa</i> Duch.) cv. Winter Dawn under sub-tropical conditions of Punjab	2015-2016	Awarded

### Research Guidance (Ph.D. Horticulture)

S.No.	Research Scholar & Institute	Position	Year	Status
1	Nithya S Reg. No.: R222506 CUTN, Thiruvarur	Research Supervisor	2023 onwards	On-Going
2	Subramaniyan P Reg. No.: R212505 CUTN, Thiruvarur	Research Supervisor	2022 onwards	On-Going

## Seminars / Conferences / Symposia participation

1. Participated and presented Oral paper on 'Influence of plant bio-regulators on fruiting and yield in pomegranate var. Bhagwa under Tamil Nadu conditions' in *5<sup>th</sup> International Conference on Climate Change and its Impact CCI-2023* at Sher-e-Kashmir University, Srinagar (**Kashmir**) on 09-11<sup>th</sup> June, 2023
2. Participated and presented Oral paper on 'Performance assessment of water apple (*Syzygium Aqueum* L.) in Cauvery delta of Tamil Nadu' in *4<sup>th</sup> International Conference on GAFF-2022* at Pokhara (**Nepal**) on 17-19<sup>th</sup> September, 2022
3. Participated in two days webinar on 'Recent Advances in Mango Production' organized by *College of Horticulture, Bidar* (University of Horticultural Sciences, Bagalkot), **Karnataka** on 15-16<sup>th</sup> January, 2021
4. Participated in the National Webinar on 'Emerging potential of Bio-entrepreneurship: Prospects and way forward for Rural Development' organized by *College of Biotechnology, Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut* (**Uttar Pradesh**) on 03<sup>rd</sup> December, 2020
5. Participated and presented Oral paper on 'Impact of Ecophysiological Factors and Biofertilizers on Growth Performance in Banana cv. Grand Naine Under Punjab Conditions' in *International Web Conference 'Perspective on Agricultural and Applied Sciences in COVID-19 Scenario (PAAS-2020)'* on 4-6<sup>th</sup> October, 2020
6. Participated in the National Webinar on 'Futuristic approaches in Organic Horticulture' organized by *COH, Bengaluru*, under University of Horticultural Sciences, Bagalkot (**Karnataka**) on 01<sup>st</sup> October, 2020
7. Participated in the National Webinar on 'Application of Statistical Concepts in Horticultural Research: Basics and Way Ahead' organized by the *Department of English, Statistics and Social Sciences, COH, Dr.YSRHU, Venkataramannagudem* (**Andhra Pradesh**) on 14<sup>th</sup> September, 2020
8. Participated in the international Webinar on 'Approaches and Strategies for Augmenting Export of Bananas from India' organized by **ICAR-NRCB** on 21<sup>st</sup> August, 2020
9. Participated and presented oral paper on 'Studies on the performance of various locally available mango types for screening potential rootstock in Jalandhar conditions of Punjab' in *International Web-Conference on New Trends in Agriculture, Environmental & Biological Sciences for Inclusive Development (NTAEBSID-2020)* organized by Agro Environmental Development Society (AEDS), on 22<sup>nd</sup> June, 2020, Rampur (**Uttar Pradesh**)
10. Participated in the National Webinar on 'Production & Processing of Horticultural Crops', organized by **Mizoram University** on 26<sup>th</sup> May, 2020
11. Participated in the National Webinar on 'Academic level responses to Covid-19: Challenges, Strategies and Framework', organized by **Bharath Institute of Higher Education and Research** on 20<sup>th</sup> May, 2020

12. Participated and presented oral paper on 'Impact of environment and role of various biofertilizers over field cultivated banana cv. Grand Naine under subtropical regions of Punjab' in *International Conference on Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS-2018)* organized by ASTA foundation, Meerut (Uttar Pradesh) at Durgapura, **Jaipur** (Rajasthan) during 28-30 October 2018
13. Participated and presented oral paper on 'Impact of gibberellic acid and stage of application on berry development, yield and quality of grape (*Vitis vinifera* L.) cv. Italia' in *International Conference on Advances in Agricultural & Applied Sciences for Promoting Food Security (AAPS-2017)* organized by SAID at **Kathmandu** (Nepal) during on 13-15<sup>th</sup> May, 2017
14. Participated and presented oral paper on 'Impact of various pruning levels on petiole nutrient status, physiology, yield and quality of grape (*Vitis vinifera* L.) cv. Italia' in *International Symposium on Sustainable Horticulture, Aizawl (Mizorum)* organized by **Mizorum** University, Aizawl, during 14-16<sup>th</sup> March, 2016
15. Participated and presented poster presentation on 'Effect of Various Pruning Levels on Growth, Yield and Quality Traits in Grape cv. Italia' in *6<sup>th</sup> Indian Horticulture Congress* organized by Horticultural Society of India, New Delhi with TNAU, **Coimbatore** (Tamil Nadu), India during 6-9<sup>th</sup> November, 2014
16. Participated and presented oral paper on 'Induction of laterals with PGR's for grafting in papaya cv. 9-1(D)' in *2<sup>nd</sup> Agricultural Graduate Student Conference* organized by **TNAU, Coimbatore** (Tamil Nadu), India during 6<sup>th</sup> May, 2014
17. Participated and presented oral paper on 'Pappaliyil Ottukkattum Tholilnutpam: Oru Aaiyvu' (Tamil) in *National Level Tamil Science Conference* organized by ICAR at Tamil Arts and Science College, Perur, **Coimbatore** (Tamil Nadu), India during 10<sup>th</sup> February, 2013
18. Participated and presented oral paper on 'A histological investigation on graft formation in papaya (*Carica papaya* L.)' in *National Seminar on Tropical and Subtropical Fruits*, Navsari Agrl. Univ. **Gujarat**, during 11<sup>th</sup> January, 2013
19. Participated and presented oral paper on 'Studies on grafting techniques in papaya (*Carica papaya* L.)' in *5<sup>th</sup> International Symposium on Tropical and Subtropical Fruits*, **Guangzhou** (China) from 18-20<sup>th</sup>, June 2012

**Dr. Senthilkumar Shanmugasundram**

**Place: Thiruvapur**