



Dr. Sekaran S

Assistant Professor of Botany

ADDRESS & EMAIL

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QUALIFICATION

M.Sc,M.Phil,
Ph.D,PGDHE,NET

DATE OF JOINING

03.01.2005

EXPERIENCE IN YEARS

16 Years

AREA OF SPECIALIZATION

Seed Physiology& Seed Technology,
Phytochemistry, Algae, Biodiversity and Mangroves

ADMINISTRATIVE DISTINCTION

- Member, Senate, University of Kerala, from February 2019 to till date
- Member,Board of Studies PG Biotechnology (2018-2020) University of Kerala
- Member, Kerala State Biodiversity Board, District Level Technical Support Group (TSG,Kollam)(2016-2018)
- Principal in charge(DDO) from Feb2018 May 2018 (3 months)
- Head of the Department of Botany from May 2016 to July 2018 (2 years)
- Member, Internal Quality Assurance Cell (IQAC
- Member, NAAC reaccreditation committee
- Programme officer, National Service Scheme(2014-2015)
- Coordinator, Biodiversity Club and Encon Club
- Member, Board of Studies UG Kannur University
- Adjudicator,Ph.D Thesis Evaluator Periyar University Salem
- Member, Malpractice Prevention Squad University of Kerala

PAPER PRESENTATIONS

- **Sekaran S** and Nisha Raj S **2020**. “Threat in floristic diversity in selected Wetland Ecosystems in Kollam District, Kerala as influenced by Climate Change” ISCA, Kolkata Sponsored National Conference on “Empowerment of Rural communities Through Innovations in science and Technology” 21-22 February 2020, Kongunadu Arts and Science College, Coimbatore.

- Sekaran S and Nisha Raj S 2020. “Floristic Diversity Changes of two selected Wetland Ecosystems in Kollam District, Kerala as influenced by Climate Change” .International Seminar on Current Status and Challenges for Conservation and Sustainable use of Biodiversity (ISCCSB 2020) 22-24 January 2020 Sree Narayana College College , Kollam.
- Nisha Raj S, and Sekaran S 2019. “Opportunities and Challenges in revised Accreditation structure in Higher Education” .NAAC Sponsored National Seminar on Emerging Trends in Quality Education: Role of IQAC in Leadership, Governance and management February 2019 SAS, SNDP Yogam College , Konnii.
- Nisha Raj, Anjanakrishna and Sekaran S 2019. Phytochemistry of *Alstonia venanatta* (Analivegam) and information of endophytic microbes E-coli. SERB and ISCA sponsored International Conference on Impact of Innovations in Science and Technology for Societal Development –IISTDD-2019.19-21 September. Coimbatore.
- Sekaran S, and Nisha Raj.S ,Rejimol D and Jayakala S 2019. “*The Effect of ICT on Higher education for Quality Enhancement.*” ‘ Challenges and changes in AQAR and SSR preparation’ organised by IQAC held on 19 & 20th December 2019 NACC sponsored National seminar organized by IQAC of SN College for Women , Kollam. Abs.pp 1.
- Nisha J. Tharayil, Sekaran S, and Aswathy Chandrabhanu 2019. “Shifting Strategies: Challenges and Prospects of IQAC in the context of the Revised AQARModel”“ Challenges and changes in AQAR and SSR preparation’ organised by IQAC held on 19 & 20th December 2019 NACC sponsored National seminar organized by IQAC of SN College for Women , Kollam. Abs pp34.
- Nisha Raj S, and SekaranS 2019. “Opportunities and Challenges in revised Accreditation structure in Higher Education” .NAAC Sponsored National Seminar on Emerging Trends in Quality Education: Role of IQAC in Leadership, Governance and management February 2019 SAS, SNDP Yogam College ,Konnii
- Nisha Raj S,Devika Unnikrishnan,Anjanakrishna and Sekaran S 2019. Studies on the variations in secondary metabolites and antioxidant activity of Zingiber zerumbet (L) Sm.rhizome.31st Kerala Science Congress. February 2019 Kollam.
- S.Sekaran 2018 . Seed Development and Germination Studies of Two True Mangrove Species *Rhizophora mucronata* Poir and *Bruguiera cylindrica* (L)Blume. National Seminar

on Insights into the interdisciplinary perspectives of Chemical and Biosciences organized by the Departments of Chemistry, Botany and Biotechnology, Govt . Arts College, Thycaud, Thiruvananthapuram. 26th - 28th February 2018 .

- S.Sekaran, S.Nisha Raj and S. Arya Raj 2018 . Seed Development and maturation and storage studies on an endemic tree *Saraca asoca* Roxb Wilde National Seminar on Conservation of Wetland Ecosystem for Long Term Ecological Security Organized by Department of botany Sree Narayana College for Women Kollam 18-20 Jan 2018.
- S.Sekaran, Veena T 2018 . Germination studies of Two mangrove species of Ayiramthengu Mangrove Forest Kerala National Seminar on Conservation of Wetland Ecosystem for Long Term Ecological Security. Organized by Department of Botany Sree Narayana College for Women Kollam 18-20 Jan 2018
- S.Sekaran, Swathy B. 2018 . Comparative account of Anatomical characteristics of mangrove and Non- mangrove species of Rhizophoraceae. National Seminar on Conservation of Wetland Ecosystem for Long Term Ecological Security Organized by Department of Botany Sree Narayana College for Women Kollam 18-20 Jan 2018
- Sekaran.S , Arya S and S.Nisha Raj, 2016. Seed development and maturation and storage studies on an Endemic tree *Vateria Indica* Linn. *Indian Science Congress Association Coimbatore Chapter* Sponsored National Level Symposium on Green Ecology for Environmental Security. 6th October 2016 Coimbatore.
- Sekaran.S and S.Nisha Raj, 2015. Floristic constitution and Phytosociological analysis of selected natural Mangrove vegetation in Kollam district , Kerala. National Biodiversity Congress (NBC-India 2015) February 23&27 Thiruvananthapuram.
- Swathi B.,and Sekaran. S 2015. A comparative study of Anatomical characteristics of Mangrove an Non- Mangrove species of the family Acanthaceae. UGC sponsored national Seminar on Advancement of Biosystematics on biodiversity Conservation. 8th & 9th October . Sivagiri, Varkala.
- Swathi B., Sujith S and Sekaran. S , 2015. Antimicrobial activity of methanolic leaf extract of two mangroves, *Rhizophora mucronata*, Poir, and *Bruguiera 3ylindrical* (L) Blume. UGC sponsored national Seminar on Insight into recent trends in biological Sciences and Technology 29&30 September Thiruvananthapuram.

- Sekaran.S and S.Nisha Raj, 2015. Conservation of biodiversity and Socio-cultural dimensions of Sacred Grove in Kannur district , Kerala. National UGC Sponsored national Seminar on Management of Bioresources in Western Ghats-A Technological Approach” on 17&18 September 2015. Konni.
- Sekaran.S and S.Nisha Raj, 2015. Floristic constitution and Phytosociological analysis of selected natural Mangrove vegetation in Kollam district , Kerala. National Biodiversity Congress (NBC-India 2015) February 23&27 Thiruvananthapuram.
- Sekaran.S and S.Nisha Raj, 2015. Floristic constitution and Phytosociological analysis of selected natural Mangrove vegetation in Kollam district , Kerala. National Biodiversity Congress (NBC-India 2015) February 23-27 Thiruvananthapuram.
- Sekaran.S and S.Nisha Raj, 2014. Floristic diversity of Ayathil kavu sacred grove , Kollam district, Kerala. UGC sponsored National seminar on Green living for Sustainable Development, 15-17 October, Govt. Brennen College Thalassery .Abs Pp 27..
- Sekaran.S and Sangeed Thekkan, 2014. Socio-cultural Dimensions of Sacred Groves of Kannur district, Kerala UGC sponsored National seminar on “Socio-Economic root causes of Biodiversity Loss” 24&25, January Sree Narayana College Kannur .Abs Pp 35..
- Sekaran.S and S.Nisha Raj, 2012. Palynological studies of some species of Malvaceae and Sterculiaceae. Indian Science Congress Association Coimbatore Chapter Regional science Congress December 15– 16, Kongunadu Arts and Science College, Coimbatore.Abs Pp109.
- Nisha Raj,S, Vishnu Chandran R. And Sekaran.S 2012. Molecular weight determination of Green Fluorescent Proteins expressed in Acetobacter spp and Enterococci spp. Indian Science Congress Association Coimbatore Chapter Regional science Congress December 15– 16, Kongunadu Arts and Science College, Coimbatore.Abs Pp 79.
- Nisha Raj, Sekaran.S and S.Paulsamy 2012. Role of bacteria in the litter decomposition of Tropical forests. Indian Science Congress Association Coimbatore Chapter Regional science Congress December 15– 16, Kongunadu Arts and Science College, Coimbatore.Abs Pp 60.
- Sekaran.S and S.Nisha Raj, 2011. Environmental and Socio-cultural Dimensions of Sacred Groves of Kannur district, Kerala. International Symposium on Environmental Risk Assessment 2011 (ISERA 2011) October 17 – 19, Bharathiar University Coimbatore. Abs page 297

- Sekaran.S, 2010. Floristic diversity and ecological functions of Mangrove wetland of Thekkumpad, Kannur district, Kerala state. DBT & DST sponsored National seminar on Tropical Ecosystems: Structure, Function and Services(TESFS 2010),28th & 29th December IFGTB Coimbatore. AbsPP 108-109.
- Sekaran.S, 2008. Floristic diversity and vegetation Ecology of Mangrove wetlands of Kannur district, Kerala State. Indian Science Congress sponsored National seminar on Biodiversity-Status,Conservation and Management 12th& 13th September. Coimbatore
- Sekaran.S, 2008. Role of Sacred Groves in the Conservation of Biodiversity-A case study. Indian Science Congress sponsored seminar on Biodiversity-Status, Conservation and Management 12th& 13th September. Coimbatore.
- Sekaran.S, K.P.Prasanth and Laxmi Balakrishnan 2008. Floristic studies of selected Sacred groves in Kannur district. UGC sponsored National seminar on Coastal wetland ecosystems of Kerala: Perspectives and Conservational strategies. October 16th &17th SN College Kannur.Abs pp 55-56
- .Sekaran.S, K.P.Prasanth and Leena K 2008. Floristic diversity of some Mangrove Wetlands of Kannur district. UGC sponsored National seminar on Coastal wetland ecosystems of Kerala: Perspectives and Conservational strategies. October 16th &17th SN College Kannur.Abs pp 46.
- Sekaran.S, N.R.Ponnammal, S.Paulsamy and S.Nisha Raj. 2003. Seed development and maturation of *Bambusa arundinacea* Retz. Ex. Willd. . UGC sponsored symposium on Bioresources and their management, 5th& 6th September. Coimbatore.
- Sekaran.S, K.R.Sasidharan, A.Nicodemus, V.K.W.Bachpai, C.Narayanan, N. Venketasubramanian, B.Gurudev Singh and Siddappa 1999. Criteria for establishment of Seed producon Areas of Teak, *Eucalyptus* and *Acacias*. National symposium on Forestry towards 21st century. Tamil Nadu Agricultural University Coimbatore Abs. Pp 37
- Sekaran.S and M.S. Subramanian 1995. Ethnobotanical studies on Kurumbas of kotagiri Nilgiris) and pharmacognosy of *Moringa concanensis* Nimmo. National symposium on Recent Trends in Indian wild life Research, 22-24 February., Mayiladuthurai. Abs. Pp.37.
- Arjunan, M.C., N.R. Ponnammal, M. Tamilselvi and S. Sekaran, 1995. Studies on growth performance and photosynthesis in certain Caesalpiniaceae members. Symposium on Frontiers in Biodiversity at Madras. Abs. Pp.8.

- Arjunan, M.C., N.R. Ponnammal, M. Tamilselvi and S. Sekaran, 1995. Studies on growth performance and photosynthesis in certain Caesalpiniaceae members. Symposium on Frontiers in Biodiversity at Madras. Abs. Pp.8.

PARTICIPATION IN SEMINARS/ CONFERENCES/ WORKSHOPS

- 31st Kerala Science Congress held during 2nd and 3rd February 2019 at Fatima Mata National College, Kollam.
- 30th Kerala Science Congress held during 28th and 30th January 2018 at Government Brennen College, Thalassery.
- Regional Workshop of Biodiversity Co-ordinators “held at Gandhi Bhavan, Thiruvananthapuram on 29th March 2016
- National Workshop on “ Genomics, Proteomics and Bioinformatics: Fundamentals to Advanced” held at St Thomas College, Kozhencherry, Pathanamthitta on 18th-20th November 2015
- National Symposium on “ Changing Perspectives in Life Sciences” held at University of Kerala Kariavattom, Thiruvananthapuram on 16-17 December 2015
- One day Symposium on Higher Education Organized by Kerala State Higher Education Commission and All Kerala Private College Teachers Association held at St Cyrils College, Adoor , Pathanamthitta on 17th October.2015
- National seminar on “Biodiversity Conservation with special reference to Western Ghats” organized by the Department of Botany, Government college, Kottayam on 12th December 2014. Funded by the Department of Collegiate Education, Govt of Kerala.

- UGC sponsored National seminar on “ Recent Trends in Cytogenetics” held at payyanur College Payyanur on 5,6 & 7 January 2012
- The two day workshop in Methodology Course in Science for college teachers sponsored by Kerala State Higher Education Council,Thiruvananthapuram organized by Sree Narayana College, Kannur On 11& 12 August 2011
- The Kerala State Higher Education Council, Thiruvananthapuram sponsored Training Programme in General Informatics for College Teachers Organized by Sree Narayana College, Kannur on 20, 21 & 22 January 2011
- National seminar on Decentralized Governance and women empowerment in Kerala: Impact of Panchayath Election 2010. Organized by the Institute of Parliamentary Affairs, Government of Kerala,at SN College Kannur during 6th and 7th December 2010.
- UGC sponsored National seminar cum Awareness Programme on Human Rights organized by the Department of Hindi an Human Rights Forum,at SN College Kannur during 25th and 26th November 2010.
- The two day National Seminar on *Advances in Biochemistry in Health Disease* organized by the Department of Biochemistry, Government College, Kariavattom. Sponsored by Department of Collegiate education Govt. Of Kerala. On 24th and 25th February 2010
- Workshop on Perspectives of Biodiversity Conservation: Status of Species richness in protected areas, Sponsored by Ministry of Environment and Forests(MoEF), Govt of India at Kongunadu Arts and Science College Coimbatore on 8th and 9th February 2007.
- Lecture Workshop on Molecular Endocrinology , Sponsored by Indian Academy of Sciences, Bangalore at S.N.College Kannur on 26-27th October 2006
- Phytotech-2006 A one day Seminar on ‘Nature’s secrets in plants-potential applications and future scope” sponsored by Ministry of Small Scale Industries, Govt of India at MACFAST, Tiruvalla on 10th August 2006.
- Eco-Vision -2006 A UGC Sponsored seminar on Disappearing Hillocks of Kerala and its Ecological Impact at N.S.S. College Nemmara on 3rd March 2006
- Seminar on Biodiversity: Recent Advances& Workshop on Research Project Proposals sponsored by Kerala State Council for Science Technology and Environment At Kannur University on 3rd February 2006.

Webinars Participated

- World Ozone day 2020 webinar on “ Ozone for life Age old tradition in Environmental Protection” Organized by department of Botany SN College for Women Kollam on 16/09/2020.
- Webinar on “ Interpreting Plant Taxonomy” Organized by department of Botany in Association with IQAC,SN College Kollam on 3rd August 2020.
- Webinar on “Literature Review and Online Resources ” on 11th August 2020, organized by Department of mathematics, SAS,SNDP Yogam College Konni
- International Webinar Series CROSSROADS 2020 on “Alternative Therapy for Oral diseases : Exploring newer possibilities” on 24th July 2020, organized by Department of botany SN College for Women, Kollam in association with IQAC.
- Webinar on “INTELLECTUAL PROPERTY RIGHTS ” on July 16th and 17th July 2020, organized by PG department of Biotechnology SAS,SNDP Yogam College Konni
- Webinar on “National Educational Policy 2020” on 21st August 2020, organized by IQAC, SAS,SNDP Yogam College Konni
- International Webinar on “INTELLECTUAL PROPERTY RIGHTS, AN OVERVIEW: MYTH & REALITIES” on June 6th 2020, organized by KLE Society’s Science & Commerce College Kalamboli, Navi Mumbai, India
- International Botany Webinar on “ Plant-derived smoke compound as bio-stimulants and their application in crops” on May 9th 2020, organized by Department of Botany KLE Society’s Science & Commerce Colleg, Kalamboli, Navi Mumbai, India.
- International Webinar on “Size Does matter: Genes, Diet & Obesity” on May 18th 2020, organized by P.G Department of Biotechnology, SAS, sndp Yogam College, Konni, in collaboration with Xcellogen Biotech Pvt Ltd.
- International Webinar on “The Evolving field of Oncology and Career Transition” on May 28th 2020, organized by P.G and Research Department of Zoology, Fathima Matha National College, Kollam, in collaboration Zoology Alumni Association of Fathima (ZAAF).

- MEDHA Webinar series on “Recent Trends in Ecophysiology ” on 24th May 2020, organized by Department of Botany, Devasom Board College, Thalayolaparambu, Kottayam
- VIRTUOSA 2020 National Webinar series on “Transcending Lockdown Barriers through Academic Outreach ” on 14- 20 May 2020, organized by IQAC,KSMDB College, Sasthamcotta.
- Webinar on “Issues and Challenges of Climate change on Biodiversity” on June 11th 2020, organized by P.G and Research Department of Botany, Kandaswami Kandar’s College, Velur, Namakkal

PUBLICATIONS IN BOOKS OR JOURNALS

1. Nisha Raj S, and Sekaran S 2019. “Opportunities and Challenges in revised Accreditation structure in Higher Education” Proceedings of NAAC Sponsored National Seminar on Emerging Trends in Quality Education: Role of IQAC in Leadership, Governance and management February 2019 SAS, SNDP Yogam College Konni. (ISBN 978-93-5382-945-2)
2. Sekaran.S, 2018 Seed Development and Germination Studies of Two True Mangrove Species *Rhizophora mucronata* poir and *Bruguiera cylindrical* (L)Blume *Trends in Biosciences* 11(7) 1251-1253. :Print ISSN 0974-8431,1251-1253,February 2018
3. Sekaran.S , Arya S Raj, S. Nisha Raj and S.Paulsamy 2017 Seed development and maturation and storage studies on an Endemic tree *Vateria Indica* Linn” *RJPBCS* 8(4) 980-986
4. Sekaran S., S.Nisha Raj, S.Arun and S.Paulsamy 2015 Floristic constitution and certain Ecological Characters of two natural Mangrove vegetation in Kollam district, Kerala. *J Res. In Biology* 5(5): 1763-1768
5. Sekaran S., S.Nisha Raj, 2015 Socio-cultural dimensions of Sacred Grove of Kannur district, Kerala with respect to Biodiversity conservation. *Eco Chronicle* 10(1): 1763-1768
6. Nisha Raj,S, S.Sekaran and S.paulsamy 2015 Biomass production and oil yield of Lemon grass in Punalur division Kerala *Kongu Research Journal* 2(1)55-58. (ISSN 0973-4155)

7. Sivakumar V., B. Gurudev Singh, R. Anandalakshmi, R.R.Warier, S.Sekaran, Mulualem Tigabu and P.C. Oden. 2011. Culling phenotypically inferior trees in seed production area enhances seed and seedling quality of *Acacia auriculiformis*, Journal of Forestry Research 22(1): 21-26.(Springer)
8. Nair. N.V. and S.Sekaran 2009. *Saccharum* germplasm collection in Mizoram, India Sugar tech 113 (3): 288-291
9. Maheswar Hegde., S.Sekaran, K.Sivabalakrishanan, B.G.Singh, K.Palanisamy and Siddappa 2003. Establishment of Seed Production Area of *Artocarpus irsutta* in Kerala. Indian Forester 129 (12): 1470–1478
10. Nisha Raj. S, S.Paulsamy and S.Sekaran. 2003. Litter fall and nutrient return in four Tropical Deciduous Forests of Western Ghats. My Forest 39(1). 25-30.
11. Gurudev Singh. B, S. Sekaran, C.Narayanan, Siddappa K.R.Sasidharan, A.Nicodemus V.K.W.Bachpai, 2002. Quality seed production in Eucalyptus through establishment of Seed Production Areas. In: Recent Eucalypt Research in India(eds) Bagchi,S.K, Mohan Varghese, M and Siddappa. ICFRE Publications, Dehra Dun. Pp 189-196
12. Sekaran.S, B.Gurudev Singh and N.R.Ponnammal 2000. Studies on effect of substrate on seed germination in *Casuarina equisetifolia*, *Bambusa arundinaceae* and *Eucalyptus tereticornis* seeds. My Forest 36 (4) 271-275.
13. SudhirKumar, R. Parimalam, S.N. Vijayachandran, S.Sekaran and K. Sundaralingam 1997. Influence of storage temperature and duration on seed quality of *Pongamia pinnata* Pierre. IUFRO symposium, Raipur Proceedings. Pp 187-196.
14. SudhirKumar, R. Parimalam, S.N. Vijayachandran, and S.Sekaran 1997. *Jatropha curcas* –A promising species for rural and wasteland development: Sylva plus V(2) .18.
15. Rangarajan T.N.,S. Paulsamy, K. Arumugasamy, A.Murugan and S.Sekaran 1997. Litter dynamics and efficacy of certain variables and the rate of decomposition in 40 year old teak forest, western ghats Vanvigyan 35(1) 5-13.
16. Sekaran S., T.N. Rangarajan and N.R. Ponnammal 1997. Provenance variation in pod length, seed characters and germination of *Cassia auriculata* Linn. J. Tree sciences 16(1): 59-61.

MEMBERSHIP IN PROFESSIONAL BODIES

- Life member, Indian Science Congress Association

OTHER ACHIEVEMENTS

- Best Energy Conservation (ENCON) club award 2016-2017 from BPCL-Kochi Refinery and secured first position for the Environmental protection and Energy Conservation Activities.
- **Seminars organized**
 1. Convenor –Seminar Series PANLORE 2020 at Sree Narayana College for Women, January 29th to February 10th 2020.
 2. Co-convenor –National Seminar on Challenges and Changes in AQAR and SSR preparation Sree Narayana College for Women, December19&20th 2019.
 3. Co-ordinated National Seminar on Conservation of Wetland Ecosystem for Long term Ecological Security’ with the Financial Assistance of KSCSTE on 18th to 20th January 2018 (3 days)
 4. Kerala State Biodiversity Board (KSBB) sponsored Biodiversity Club and the ShanthiSthall (A place of Rare , Endangered and Threatened trees) Sanctioned to SN College Kollam Inauguration ceremony and seminar on Biodiversity Conservation organized in SN College Kollam on 10.07..2014
 5. Co-Convenor Technical Session of 31st Kerala Science Congress,(2019) Kollam
- **Webinars organized(Web Based Seminars)**
 1. Organized World Rivers Day 2020 webinar in Association with Social Forestry Extension Unit Kollam on “ Vegetative measures of River bank Stabilization” on 28/09/2020
 2. Organized World Ozone day 2020 webinar on “ Ozone for life Age old tradition in Environmental Protection” on 16/09/2020.
 3. Organized International Webinar Series CROSSROADS 2020 on “Alternative Therapy for Oral diseases : Exploring newer possibilities” on 24th July 2020.

- **Training programmes Organized**

1. The Kerala State Higher Education Council, Thiruvananthapuram sponsored **Training Programme in General Informatics for College Teachers** Organized by Sree Narayana College, Kannur on 20, 21 & 22 January 2011
2. The Kerala State Higher Education Council, Thiruvananthapuram sponsored Two day **workshop in Methodology Course in Science for college teachers** organized by Sree Narayana College, Kannur On 11& 12 August 2011

- **Organized seminars, Debate, Quiz, Documentary Screening in Popular Days**

1. Co-ordinated Kerala State Council for Science technology and Environment sponsored World Environment Day 2019 celebrations organized and Seminar on “Air Pollution” and Quiz program (Rs 12,000)/
2. Co-ordinated Kerala State Council for Science technology and Environment sponsored World Environment Day 2018 celebrations organized and Seminar on “Beat Plastic pollution ” and Inter College Quiz Competition (Rs 17,000)/
3. Co-ordinated Kerala Science Congress Curtain Raiser Programme 2018 with the Financial Assistance of KSCSTE on 9th January 2018.
4. Kerala State Council for Science technology and Environment sponsored International Day for Preservation of Ozone Layer 2016 celebrations organized and one day Seminar on “Ozone depletion: Green chemical restoration” and “Need for Wildlife conservation” (Rs 20,000)/
5. Kerala State Council for Science technology and Environment (KSCSTE) sponsored World Environment Day -2016 (Theme: Zero Tolerance for Illegal Wildlife Trade – Go Wild for Life celebrations organized and Seminar on “Biodiversity Conservation-Challenges” By Dr. P.S. Easa Former Director KFRI conducted in SN College for Women Kollam on 5-8 June 2016 (Rs 20,000)/
6. Kerala State Council for Science technology and Environment and DST(Govt Of India) sponsored National Science Day 2016 celebrations organized and Seminar on Make in India : Science & Technology driven Innovations and Role of Space Science in Nation Building By Dr G.Madhavan Nair Former Chairman ISRO conducted in SN College for Women Kollam on 27.02.2015 (Rs 15,000)/

7. Kerala State Council for Science technology and Environment (KSCSTE) sponsored World Wetland Day (WWD 2016) Wetlands for our future : Sustainable livelihoods celebrations organized and Seminar By Dr.OommenV.Oommen, Chairman Kerala State Biodiversity Board and Cleaning Campaign for clean Astamudi in SN College for Women Kollam on 1-3. February 2016 (Rs 20,000)
8. Kerala State Council for Science technology and Environment sponsored International Day for Preservation of Ozone Layer 2015 celebrations organized and Seminar on “Green Chemical Healings of Ozone Layer” and Documentary on Ozone layer Protection (Rs 20,000)/
9. Kerala State Council for Science technology and Environment and DST(Govt Of India) sponsored National Science Day 2015 celebrations organized and Seminar on Relevance of Vedic Metaphysics in Nation Building conducted in SN College Kollam on 27.02.2015 (Rs 20,000)/
10. Kerala State Council for Science technology and Environment (KSCSTE) sponsored World Wetland Day (WWD 2015) celebrations organized and Seminar and Documentary Screening on Wetland Conservation in SN College Kollam on 02.02.2015 (Rs 15,000)
11. Kerala State Council for Science technology and Environment (KSCSTE) sponsored International day for the preservation of the Ozone Layer (Ozone Day 2014) celebrations organized and Seminar on Ozone depletion and Global Warming conducted in SN College Kollam on 22.09.2014 (Rs 20,000)/

● **Orientation/Refresher/Short term Course/ attended:**

Name of the Course /Summer School	Place	Duration	Sponsoring Agency
Online Short term Course in Biodiversity-Status, Service& Management Practices	Kongunadu Arts and Science College, Coimbatore	1 st to 10 th September 2020	
Online Short term Course in Mushroom Cultivation	SAS,SNDP Yogam College, Konni	1 st to 10 th September 2020	
One week FDP in Science (Philosophy of	Mahatma Gandhi University, Kottayam	29/08/2019 to 02/09/2019	The Kerala State Higher Education

Science)			Council, TVM
Short term Course on Gender Sensitization	UGC HRDC, University of Kerala	21-12-2018 to 29-12-2018	UGC
Refresher course in Environment Science	UGC HRDC, University of Kerala	02-02-2017 to 22-02-2017	UGC
Orientation Training Course for NSS Programme Officers	Rajagiri College of Social Sciences, Kalamassery	20.11.2014 to 26.11.2014	Ministry of Youth affairs & Sports Govt. of India
Refresher Course in Life Sciences	ASC, University of Kerala	19-07-2013 to 08-08-2013	UGC
Refresher course in Environment Science	ASC, University of Kerala	01-02-2012 to 22-02-2012	UGC
Orientation Course	ASC, University of Kerala.	21-07-2007 to 17-08-2007	UGC

RESEARCH OUTPUT

- **Research Guide (Ph.D) in University of Kerala,**

Research Centre: S N College, Kollam

Research Supervisor Order No. Ac.EVI(1)/36735/2017 dated 31/03/2017

No. of students under the Guidance: 3 (Full time -2, Part time-1)

- **Research Projects Completed:**

1. Title of the Project: Diversity and Conservation Strategies on Mangrove Ecosystem with special reference to Marshy backwaters of Southern Kerala, Western Ghats

Sponsoring Agency : University Grants Commission

Amount Granted : Rs 1,40,000/2 Completed in 2018

period 2 Years (29th October 2015 to 27th October 2019)

Ref No. 1781/MRP/14-15/KLKSE 057. dated 29 Oct 2015

2. Title of the Project: Ex-situ Conservation of Rare and Endangered Trees of Kannur District of Kerala, Western Ghats.

Sponsoring Agency : University Grants Commission

Amount Granted : Rs 30,000/ Completed in 2010

● **Research Areas of interest:**

- Biodiversity studies of Sacred Groves and Mangroves
- Phytochemistry
- Mushroom cultivation and Training
- Seed Physiology and Seed technology

CITATIONS AND INDEXING, IF ANY

JOURNAL CITATIONS

a. 3