

FACULTY PROFILE

GENERAL INFORMATION

- a) Name : ANTONY P.J.
- b) Nationality : Indian
- c) Sex & Marital Status : Male, Married
- d) Permanent address : Puthiyath House
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- e) Present working place address : Assistant Professor & Head
Department of Zoology
St. Michael's College
Mayithara P.O., Cherthala
Alappuzha – 688539
Kerala, India
- f) Academic qualifications : MSc., MPhil., PhD., NET

PROFESSIONAL AND RESEARCH EXPERIENCE

1) Research Fellow

- a) *Period:* August 2002 – July 2005

At: Centre of Advanced Study in Marine Biology, Annamalai University,
Parangipettai – 608 502, Tamil Nadu, India.

Sponsoring agency: Department of Ocean Development, Govt. of India.

Research topic: Studies on the biology of potentially exploitable stomatopod resources from
Parangipettai coast, Southeast coast of India.

- b) *Period:* July 2008 – May 2009

At: Centre for Marine Living Resources & Ecology (CMLRE), Ministry of Earth Sciences,
VI Floor, C-Block, Kakkanad, Cochin, Kerala, India.

Sponsoring agency: Ministry of Earth Sciences, Govt. of India.

Research topic: Assessment of myctophid fishery resources (Acoustic and trawl survey) from
Central Indian Ocean.

2) Post Doctoral Fellow (Full-time)

Period: 01.06.2009 – 31.05.2011

At: School of Industrial Fisheries, Cochin University of Science and Technology, Fine Arts
Avenue, Cochin-16, Kerala

Sponsoring agency: UGC (University Grants Commission) - Grant for independent research

Topic: Development of management strategies for sustainable marine fisheries- Construction of an Ecopath model off Cochin

3) GUEST LECTURER (Full-time)

Period: 13.06. 2011 – 31.03.2012

At: Department of Zoology, St. Michael's College, Cherthala

4) M.Phil. Research (Full-time)

Duly completed M.Phil. degree by research with a dissertation entitled 'Studies on fisheries and socioeconomics of Pazhayar fishing village'. For this surveys were conducted at the said fishing village for one year on fish landing statistics, crafts and gears being in operation and socioeconomic status of the fisherfolks.

5) Ph.D. Research (Full-time)

Duly completed Ph.D. degree by research with a dissertation entitled 'Biology and resource management of stomatopod *Miyakea nepa* (Latreille, 1828) off Parangipettai, Southeast coast of India (Crustacea: Stomatopoda)'. Various biological parameters like diet composition, reproduction, length weight relationship, age & growth and stock assessment of the said species was studied. Ecological niche of the stomatopod group was also studied based on an ecopath model of the ecosystem, constructed using Ecopath with Ecosim statistical software.

PUBLICATIONS

Journals

1. **Antony P.J.**, Dhanya, S. and S. Ajmal Khan. 2014. Reproductive aspects of *Miyakella nepa* (Latreille, 1828) (Crustacea, Stomatopoda) from Southeast India. *Academic Spectrum*. 7: 29-38. ISSN 2456 – 3056.
2. **Antony P.J.**, M.M. Rahman, M. Rajkumar, Kamaruzzaman Yunus and S. Ajmal Khan 2014. Relative Growth of *Harpiosquilla raphidea* (Fabricius, 1798) (Crustacea: Stomatopoda) Male and Female from South India. *Sains Malaysiana*. 43(9): 1305–1310.
3. Gopalakrishnan, A., M. Rajkumar, M. M. Rahman, J. Sun, **P. J. Antony**, B. A. Venmathimaran and J. P. Trilles. 2014. Length–weight relationship and condition factor of wild, grow-out and 'loose-shell affected' giant tiger shrimp, *Penaeus monodon* (Fabricius, 1798) (Decapoda: Penaeidae). *J. Appl. Ichthyol*. 30, 251–253.
4. Parameswaran, Usha V., Abdul Jaleel K. U., Sanjeevan V. N., **Antony P. J.**, & Elizabeth John. 2013. Benthic polychaetes off Edward VIII Plateau in the continental shelf of East Antarctica. *Indian Journal of Geo-Marine Science*. 43(6): 915-919.
5. Murugan, S., **P.J. Antony** and S. Ajmal Khan. 2012. Ecological niche of *Mugil cephalus* – an ecopath with ecosim approach in Vellar estuary (Southeast coast of India), *International J. of Pharma and Biosciences* 3(1): 662-676.

6. **Antony P.J.**, S. Dhanya, P.S. Lyla, B.M. Kurup and S. Ajmal Khan. 2010. Ecological role of stomatopods (mantis shrimps) and potential impacts of trawling in a marine ecosystem of the southeast coast of India, *Ecological Modelling* 221: 2604-2614. 10.1016/j.ecolmodel.2010.07.017
7. Eldose P. Mani, B. Ravikumar and **P.J. Antony**. 2008. Impact of physical disturbances on the community structure of estuarine benthic meiofauna in an estuary. *Asian J. of Sci. Res.* 1(3): 239-245.
8. Rajkumar M., **P.J. Antony** and J.P. Trilles. 2006. Length-weight relationship of Asian Seabass (*Lates Calcarifer* Bloch, 1790) from Pichavaram mangrove waters, Southeast coast of India. *Asian Fisheries Science*. Vol. 19: 171-177.
9. Karuppaiyan, M., M. Rajkumar and **P. J. Antony**. 2005. Distribution of echinoderms along the southeast coast of India, *Aquacult.* Vol. 6 (2): 221-227.
10. Lyla P.S, S. Velvizhi, **P.J Antony** and S. Ajmal Khan. 2004. Reproductive strategy of gammarid amphipods in Parangipettai waters (Southeast coast of India), *J. mar. Biol. Ass. India*. Vol. 46 (2): 141-145.
11. **Antony P.J.**, Eldose P Mani, P.S Lyla and S. Ajmal Khan. 2004. Length weight relationship in mantis shrimp *Harpisquilla harpax* (De Haan) (Crustacea, Stomatopoda), *J. Aqua. Biol.* Vol. 19(2): 79-83.

Proceedings

1. **Antony P.J.** 2015. Role of natural production in traditional fish farms with reference to zooplankton biomass. In Antony P.J. and Annie Jose K. 2015 (Eds.) *Sustainable Fisheries in an ecosystem perspective*, St. Michael's College, Cherthala, 86-90. ISBN 978-81-930603-2-2.
2. Madhusoodana Kurup, B. **Antony P.J.** and Sreedevi, C. 2013. Expected impact of changing climatic parameters on commercial fisheries resource of Kerala coast. In: *Pearl - Platinum Jubilee Souvenir*. Biju Kumar, A, (ed.) Department of Aquatic Biology and Fisheries, University of Kerala, Thiruvananthapuram, pp. 33-38.
3. Kurup B. M. and **P.J. Antony**. 2010. Indigenous ornamental fish germplasm inventory of India with reference to the need for a paradigm shift of the industry from wild caught to farmed stock. In: Kurup et al. (Ed.), *Souvenir, Ornamentals Kerala 2010*. Dept. of Fisheries, Govt. of Kerala, 47-59.
4. **Antony P.J.**, B. Ravikumar, P.S Lyla and S. Ajmal Khan. 2006. Socioeconomic status of the fisherfolks in Pazhayar fishing village, India. In: Kurup, B.M. and K. Ravindran, 2006, *Sustain Fish*, School of Industrial Fisheries, CUSAT, 773-780. ISBN 81-903245-0-0.

Books

1. Amina S., Vinod P., **Antony P.J.**, Dhanya Sthunarayanan, Annies Joseph and Jean Jose J. 2018. General Informatics, Bioinformatics and Molecular Biology, Manjusha Publications, Calicut, 272p. ISBN 978-93-86218-56-8.
2. Nagendra Prabhu, G., Sreejamole K.L., Sulekha B.T., Abhilash R. and **Antony P.J.** 2017. Genetics and Biotechnology, Manjusha Publications, Calicut, 260 p. ISBN 978-93-86-216-36-0.
3. Sanuj C. Breeze Villa, B. Hari, D. Sheela Devi, **P. J. Antony** and S. Sheela. 2016. Methodology and perspectives of Zoology, Manjusha Publications, Calicut, 240 p.
4. **Antony P.J.** and Annie Jose K. 2015. Sustainable Fisheries in an ecosystem perspective, St. Michael's College, Cherthala, 109 p.

Editorial

1. **Antony P.J.** and Annie Jose K. 2015 (Eds.) Sustainable Fisheries in an ecosystem perspective, St. Michael's College, Cherthala, 109pp. ISBN 978-81-930603-2-2.

Other

1. **Antony P.J.**, 2015. June 8 *Loka samudra dinam*. Mugharekha a monthly publication of Diocese of Alapppy. Vol. XXII Issue VII. 6-8.
2. **Antony P.J.**, 2014. *Theeradeshraksha athinte avasavyavasthakalude paripalanayiloode*. Mugharekha a monthly publication of Diocese of Alapppy. Vol. XXI Issue VI. 32-34.

RESEARCH PROJECTS HANDLED

1. PI of KSCSTE sponsored project entitled 'Economic uplift of women from Cherthala south panchayath through transfer of vermicomposting technology with financial outlay of Rs. 200000/-.
2. PI of UGC sponsored Minor Project on 'An ecosystem approach to study the role and importance of natural food production in pokkali fish farm in Kerala' with financial outlay of Rs. 120000/-.
3. UGC sponsored individual project entitled 'Development of management strategies for sustainable marine fisheries- Construction of an Ecopath model off Cochin' under DSKPDF scheme with financial outlay of Rs. 7 lakh

ORGANIZING EXPERIENCE

1. Convener of KSBB sponsored 'Biodiversity Awareness Seminar' organized at St. Michael's College on 15 March 2023.
2. Convener of KSCSTE sponsored seminar on 'Climate change mitigation and wetland protection', intercollegiate project presentation competition and workshop organized in

- connection with 'World wetland day 2019' at St. Michael's College during 5th and 8th February 2019.
3. Convener of KSBB sponsored one day 'Biodiversity awareness campaign' organized on 30th January 2019.
 4. Coordinator of three day residential program called 'Sasthrajalakam' for IX standard students sponsored by State Institute of Educational Technology during 23 – 25th November 2018.
 5. Coordinated district level training program on 'Short film making' for children from different schools and colleges under the banner of Birds Club International at SN College Cherthala on 11th August 2018.
 6. Convener of KSCSTE sponsored seminar on 'Wetland conservation and urban life' conducted on 5th February 2018 and Field workshop on 8th February 2018 organised in connection with 'World wetland day 2018'.
 7. Coordinated Birds Club International activities in Alappuzha District during 2018.
 8. Organising committee member of 27th Swdeshi Science Congress held at Amritha Viswa Vidyapeetham, Amritha University, Kollam during 7 – 9 November 2017.
 9. Coordinator of 'Samnwaya' Science and Technology Exhibition, International Book Fair and Trade Fest organised by St. Michael's College, Cherthala as part of Golden Jubilee Celebrations during 10th – 15th October 2017.
 10. Co-convener in organizing a KSCSTE supported One Day National Seminar on 'Conservation of natural resources' on 16th June 2017 and intercollegiate quiz competition on 12th June 2017.
 11. Convener of KSCSTE sponsored seminar on 'Wetland conservation for alleviation of disaster hazards' conducted on 1st February, 2017.
 12. Convener in organizing One day awareness programme on vermicomposting on 03.07. 16
 13. Convener of UGC sponsored National Seminar on 'Sustainable Fisheries in an ecosystem perspective' conducted on 10th and 11th December 2015 at St. Michael's College, Cherthala.
 14. Performed as organizing committee member in conducting State Level Seminar on 'Lifestyle and Cancer' on 28th June 2012 at St. Michael's College, Cherthala.
 15. Performed as Committee Member in organizing Three day Orientation Programme on 'Informatics' sponsored by Kerala State Higher Education Council, Thiruvananthapuram, held at St. Michael's College, Cherthala, Kerala during 24 -26 August, 2011.
 16. Performed as Co-convener in organizing Two day International Workshop on 'Towards A Green Fisheries and Aquaculture Economy'- Revisiting Technology, Management and Governance (TAGFAEC) at School of Industrial Fisheries, Cochin University of Science & Technology, conducted under the Seventh Framework Programme of the European

Commission Marie Curie Actions – Partnership for Sustainable Shrimp Aquaculture (PASSA) held during 8 - 9 March, 2011.

17. Performed as Sub-committee Member in organizing International Seminar on ‘Ornamental Fish Breeding, Farming and Trade’ held at International Hotel, Cochin during 13-15 February, 2010.

PAPER PRESENTATIONS

1. Sajhunneesa Thirunilath, Sureshkumar S., Prabhakaran M.P., **Antony P.J.**, Rajeev Raghavan, Sileesh Mullasserri, Liya V. Benjamin, Adheena V.S. 2019. Trophic relationships in an integrated agriculture- aquaculture (Pokkali) system. – presented in the international conference BRAQCON-2019 held from 23 to 25 January, 2019 at CIBA, Chennai.
2. **Antony P.J.**, Dhanya Sethunarayanan and B. Madhusoodana Kurup. 2015. Ecological consequences of increased shark fishery on Southwest coast of India. – presented in World Ocean Science Congress 2015 held in Jawaharlal Nehru International Stadium, Kochi during 5 – 8 February 2015.
3. **Antony P.J.**, B. Madhusoodana Kurup and Sreedevi, C. 2014. Effect of Climate change on fish biology and phenology. – presented at National Seminar on ‘Impact of climate change fish and fisheries’ held at Sree Narayana College, Cherthala during 26th and 27th June 2014.
4. Elizabeth, J., Asha Devi C. R., Jayalakshmi K. J., Sabu P., Padmakumar K. B., Bhuvanewari V. P., **Antony P. J.** and Sanjeevan V. N., Mesozooplankton distribution in the south western Indian Ocean and Southern Ocean along 57.5°E and 48°E with special reference to pelagic amphipods during late austral summer 2009. –presented at Symposium on Indian Ocean Marine Living Resources to be held at CMLRE, MoES during 2-3 December, 2010.
5. Bhuvanewari, V. P., Abdul Jaleel, K. U., Elizabeth, J., **Antony, P. J.**, Sanjeevan, V. N. Composition of benthic polychaetes off Edward VIII Plateau in the continental shelf of East Antarctica. –presented at Symposium on Indian Ocean Marine Living Resources to be held at CMLRE, MoES during 2-3 December, 2010.
6. Eldose, P. Mani, **Antony P.J.**, Lyla, P.S., Ajmal Khan, S. Prediction of demersal fisheries using meiofaunal biomass. –presented at Symposium on Indian Ocean Marine Living Resources to be held at CMLRE, MoES during 2-3 December, 2010.
7. Dhanya Sethunarayanan, **P.J. Antony** and S. Rajagopal. Maturity and breeding of the alligator pipefish, *Syngnathoides biaculeatus* (Bloch, 1785) from the southeast coast of India. 2010: presented at 20th Swadeshi Science Congress held at Central Marine Fisheries Research Institute, Kochi during 6-8 November, 2010.
8. **Antony, P.J.** and B. Madhsoodana Kurup. Possible negative effect of stomatopod (mantis shrimp) discards from shrimp trawlers in India. 2010: presented at symposium Ecosystems

- 2010: Global progress on ecosystem based fisheries management held at University of Alaska, Fairbanks, Alaska, USA during 8-11 November, 2010.
9. Gopalakrishnan, A., M. Rajkumar, Jun Sun, **P.J. Antony**, B. A. Venmathi Maran, J. P. Trilles. Length-weight relationship of wild, grow-out and loose-shell affected giant tiger prawn *Penaeus monodon* (Decapoda: Penaeidae). 2010: presented at the 7th International Crustacean Congress (ICC7) held at Institute of Oceanology, Chinese Academy of Sciences, 7 Nanhai Road, Qingdao 266071, P.R. China during 20-25 June, 2010.
 10. Madhusoodana Kurup B. and **P.J. Antony**. Indigenous ornamental fish germplasm inventory of India with reference to the need for a paradigm shift of the industry from wild caught to farmed stock. 2010: presented in Ornamentals Kerala 2010, International seminar on ornamental fish breeding, farming and trade held at Cochin during 13th -14th February 2010.
 11. **Antony, P.J.** and B. Madhusoodan Kurup. Need and importance of generating vessel log database for the management of coastal fisheries, 2009: p 70.- poster presented in National seminar on Conservation and sustainability of coastal living resources of India held at Cochin during 1st – 3rd December, 2009.
 12. Shanmugaraj, T., Sundaramurthy, S., Kankara, R.S., Chippy, K., Vinu, J., Shyam, K., **Antony, P.J.**, Thomy, R., Sanjeevan, V.N. and B.R. Subramanian. Status of coral reefs in the Gulf of Katchhh (India), 2008: p 40. – presented in National conference on coral reef ecosystem held at Thoothukudi during 18th -19th Spetember, 2008.
 13. **Antony P.J.**, B. Ravikumar, P.S Lyla and S. Ajmal Khan. Socioeconomic status of the fisherfolks in Pazhayar fishing village (Southeast coast of India), 2005: p 220. – presented in International Symposium on Sustain fish 2005 held at Cochin during 16th -18th March, 2005.
 14. **Antony P.J.**, Eldose P Mani, P.S Lyla and S. Ajmal Khan. By-catch utilization Squilla – a non-conventional fishery resource, 2005: p 239. – presented in International Symposium on Sustain fish 2005 held at Cochin during 16th -18th March, 2005.
 15. Eldose P Mani, **P.J Antony**, P.S Lyla and S. Ajmal Khan, Studies on the abundance and vertical distribution of estuarine benthic meiofauna from a physically disturbed site in the Vellar estuary (Southeast coast of India), 2004: p 43 – presented in National Seminar on Ecological balancing and Sethusamudram Canal held at Thondi campus during 1st – 3rd October, 2004.

ONBOARD EXPERIENCE

1. Participated in Cruise No. 216 of FORV Sagar Sampada covering a distance of 1100 nautical miles in the entire east cost of India for 20 days to study the benthic productivity at 200 to 1000 m depth in the Indian EEZ of Bay of Bengal.

2. Participated in ‘**SOUTHERN OCEAN EXPEDITION 2009 TO ANTARCTICA**’ onboard Russian Research Vessel Akademik Boris Petrov for 63 days from 12.02.09 to 14.04.09, to study the biological productivity of the Southern Ocean. Samples were collected for analysing phytoplankton, micro and mesozooplankton and benthos. During the entire cruise stood seaworthy in very rough weather and sea conditions.

RESOURCE PERSON

1. Served as resource person for the Workshop on Green Technology and Energy Perspectives conducted at Sree Narayana College Cherthala on 16 March 2023.
2. Served as the president of a technical session in 27th Swdeshi Science Congress held at Amritha Viswa Vidyapeetham, Amritha University, Kollam during 7 – 9 November 2017.
3. Delivered classes on general zoology for gifted students of CBSE 10th standard from Alappuzha Diocese on 24th April 2017.
4. Delivered an invited talk on ‘Marine biology and research in southern ocean’ at Kuriakose Gregorios College, Pampady, Kottayam on 15th December, 2016.
5. Served as Judge in Ernakulam Revenue District Sasthrolsavam 15-16 held at SRV Higher Secondary School, Ernakulam on 12th November 2015.
6. Served as Chairman of a session in the National Seminar on 'Recent advances in mariculture and its possibilities in Kerala coast' held during 20-21 October 2015 in St. Joseph's College, Alappuzha.
7. Served as ‘Taxonomist for Vembanad Fish Count 2015’ held on 28 – 29 May 2015 at Vembanad.
8. Served as resource person in the Department of Biological Oceanography, Kerala University of Fisheries and Ocean Studies (KUFOS) on 29th April, 16th and 19th May, 2014 to deliver lectures and giving trainings on Ecosystem based fisheries management and Ecopath with Ecosim statistical software for students of M.Sc. Biological Oceanography and Biodiversity.
9. Served as resource person to train the research scholars of Centre of Advanced Study in Marine Biology, Annamalai University for three days from 14.09.11 to 16.09.11.

TRAININGS / WORKSHOPS ATTENDED

1. 2nd Rain International Nature Film Festival organized by Birds Club International at Kumarakom during 24-26 January 2020.
2. Two days National Workshop and Hands-on training on MOOC and e-learning organized by Sacred Heart College under the aegis of Educational Multimedia Research Centre (EMMRC), University of Calicut of UGC-CEC during 9-10 August 2019.
3. One day training in ‘Citizen Science Programme’ organised by ICAR-Central Marine Fisheries Research Institute, Kochi on 5th August 2019.

4. Rain International Nature Film Festival organized by Birds Club International at Munnar during 25-27 January 2019.
5. Workshop on 'Sasthrakauthukam' organized by Sarva Shiksha Abhiyan (SSA) at Govt. Guest House, Thiruvananthapuram on 4th December 2018.
6. Workshop on "Biological Techniques" organized by Department of Zoology, Maharaja's College, Ernakulam during 4-5th October 2018.
7. India-EU Concluding Workshop on 'Marine Ecosystems and Climate in India' jointly organized by NERCI and KUFOS at Ramada Resort, Kochi on 30-31 July 2015.
8. Intermediary workshop on 'Virtual labs and online learning management system' conducted by Value Virtual Labs, an initiative of MHRD under the National Mission on Education through ICT at Amritha Vishwa Vidyapeetham University, Amritapuri on 8th March 2015.
9. Jalapadam Teacher's Workshop organized by Ashoka Trust for Research in Ecology and Environment (ATREE) on 24th June 2014.
10. One day workshop on 'Organic farming' organized by Ashoka Trust for Research in Ecology and Environment (ATREE) on 24th August 2013.
11. Two day International Workshop on 'Towards A Green Fisheries and Aquaculture Economy'- Revisiting Technology, Management and Governance (TAGFAEC) organized by School of Industrial Fisheries, Cochin University of Science & Technology, conducted under the Seventh Framework Programme of the European Commission Marie Curie Actions – Partnership for Sustainable Shrimp Aquaculture (PASSA) held during 8 - 9 March, 2011.
12. Indo-European Workshop on 'Waste Management in Aquaculture and Fisheries' (WAMAFISH 2010) organized by School of Industrial Fisheries, Cochin University of Science and Technology, Cochin in association with Università del Salento, Italy and National Institute of Oceanography, Goa held during 10-11 February, 2010.
13. National Training on 'Acoustic Techniques for Fish and Plankton Biomass Estimation' conducted at Centre for Marine Living Resources and Ecology, Ministry of Earth Sciences, Kochi and onboard 'FORV Sagar Sampada' during 23-27 September, 2008.
14. **Winter School** on 'Towards Ecosystem based Management of Marine Fisheries- Building Mass Balance Trophic and Simulation Models' conducted at Central Marine Fisheries Research Institute, Cochin, Kerala during 30.9.2004- 20.10.2004.
15. UGC Workshop on 'Statistical Methods in biology' conducted at Department of Statistics, Annamalai University, Annamalinagar, TamilNadu held during 11-12 March, 2004.

FACULTY DEVELOPMENT PROGRAMMES ATTENDED

1. Online Short-Term Course in Gender Sensitization organised by HRDC, University of Kerala, Trivandrum from 11.08.2021 to 17.08.2021

2. Certificate is awarded on 30.06.2021 for successfully completing the online course: Nature-based Solutions for Disaster and Climate Resilience, a course developed by experts from the United Nations Environment Programme (UNEP) and the Partnership for Environment and Disaster Risk Reduction (PEDRR) with support from the European Union, in collaboration with the SDG Academy and the EdX Platform
3. Online - 7-Days FDP on Research in Science : Novel tools and Methodologies from 03.08.2021 to 09.08.2021 conducted by Sri Guru Gobind Singh College, Sector 26, Chandigarh in collaboration with Human Resource Development Centre, Panjab University, Chandigarh
4. FDP on 'Outcome based education' organised by Sree Narayana College Kollam in collaboration with Kerala State Higher Education Council from 14.06.2021 to 21.06.2021.
5. FDP on Moodle Learning Management System organized by St. Michael's College, Cherthala with course material provided by Spoken Tutorial Project, IIT Bombay from 23.11.2020 to 27.11.2020.
6. Seven Day National level FDP on E-content Development organised by HRDC, University of Kerala, Trivandrum in collaboration with MSM College, Kayamulam from 24.09.2020 to 30.09.2020.
7. FDP on Teachers Training on Disaster Management organised by National Institute of Disaster Management, Govt. of India in collaboration with Pondicherry University from 21.09.2020 to 25.09.2020.
8. SWAYAM ARPIT Online Course: Refresher Course on Teacher and Teaching in Higher Education from 01.09.2019 to 31.12.2019.
9. Refresher course in Life Sciences at HRDC, University of Kerala, Trivandrum from 08.11.2017 to 28.11.2017.
10. Orientation programme at HRDC, University of Kerala, Trivandrum from 04.11.2016 to 01.12.2016.
11. One day Faculty Development Programme on Teaching Learning Methodologies organized by Teaching Learning Centre, Indian Institute of Technology Madras at Sanadhana Dharma College, Alappuzha on 15th October 2015.
12. Orientation Programme on 'Research Methodology in Science' organized by the Research Promotion Council, St. Michael's College, Cherthala and sponsored by Kerala State Higher Education Council, Thiruvananthapuram during 18-19 August, 2011.
13. Orientation Programme on 'General Informatics' organized by the Informatics Centre, St. Michael's College, Cherthala and sponsored by Kerala State Higher Education Council, Thiruvananthapuram during 24-26 August, 2011.

SEMINARS/ SYMPOSIA ATTENDED

1. Two days National Conference on Biogeochemistry and Ecology... at KUFOS during 18-19 January 2019.
2. Seminar on 'Climate change and sustainability of ocean resources' organized by CMLRE, Ministry of Earth Sciences in connection with India International Science Festival 2017, at Kochi on 4th October 2017.
3. One day seminar on Student Services organized by the Department of Student Services, University of Kerala on 6th January 2016 at Unniversity Students Centre.
4. UGC sponsored National Seminar on 'Biosciences in the genomic era' organized by Department of Zoology, SN College, Cherthala during 2-3 July 2015.
5. Symposium on 'Research and innovations in wetland conservation' organized by Department of Zoology, SN College Cherthala on 12th February 2015.
6. World Ocean Science congress 2015 organised jointly by Swadeshi Science movement and KUFOS during 5-8 February 2015.
7. One day Seminar on 'Bioinformatics' on 17th December 2013 held at Govt. College, Kottayam
8. National Seminar on Recent advances in Photochemistry' during 5th – 6th December 2013 held at St. Michael's College, Cherthala
9. Awareness programme on 'Applications of 8 quality management principles and accelerated learning process in educational institution' on 12th July, 2013 at Cherthala.
10. International Seminar on 'Climate solutions through sustainable development' on 4th December 2012 at St. Michael's College, Cherthala
11. National Seminar on Biodiversity held on 17th December, 2010 at School of Marine Sciences, Cochin University of Science and Technology, Cochin.
12. Symposium on Indian Ocean Marine Living Resources held during 2-3 December, 2010 at Centre for Marine Living Resources and Ecology, Ministry of Earth Sciences, Cochin.
13. 20th Swadeshi Science Congress held during 6-8 November, 2010 at Central Marine Fisheries Research Institute, Cochin.
14. National Symposium on 'Impact of Climate Change on Aquatic Ecosystems' (NSICCAE 2010) with the theme 'Biodiversity and Climate Change' held during 18-19 February, 2010 at School of Marine Sciences, CUSAT, Cochin-16.
15. International Seminar on 'Ornamental fish breeding, farming and trade' (Ornamentals Kerala 2010) organized by Department of Fisheries, Govt. of Kerala as part of 'India International Aquashow 2010' held during 13-14 February, 2010 at Cochin.

16. International Symposium on 'Improved Sustainability of Fish Production Systems and Appropriate Technologies for Utilization' (Sustain Fish 2005) organized by Cochin University of Science and Technology, held during 16-18 March, 2005 at Cochin.
17. National Symposium on 'Recent Trends in Fisheries Educations and Research' organized by Fisheries College and Research Institute, TamilNadu Veterinary and Animal Sciences University, held on 4th December, 2004 at Thoothukudi, TamilNadu.
18. Workshop-cum-discussion and Brainstorming session organized in connection with drafting of 'National Biodiversity Strategy and Action Plan for east coast eco-region of India' held on 24th February, 2001 at Centre of Advanced Study in Marine Biology, Annamalai University, Parangipettai, TamilNadu.

HONOURS AND AWARDS

1. Food and Agricultural Organization (FAO) has awarded financial grant through Alaska Seagrant for travel to Anchorage, Alaska, USA to present a research paper at 'Ecosystems 2010: Global progress on ecosystem based fisheries management held at University of Alaska Fairbanks during 8-11 November, 2010
2. University Grants Commission (UGC), Govt. of India has awarded Dr. D.S. Kothari Postdoctoral Fellowship for Independent Research on 05.05.2009.
3. Annamalai University has awarded Dr. Rajah Sir M.A. Muthiah Chettiar Silver Jubilee CAS in MB Prize for Second Highest Mark in M.Sc. Coastal Aquaculture at Annamalai University, Annamalainagar, TamilNadu on 05.08.2001.

MEMBERSHIP IN AUTHORITIES AND COMMITTEES

1. Life Time Member of Indian Science Congress Association
2. Life Time Member of Swadesi Science Movement-Kerala.
3. Life Time Member of 'Marine Biological Association of India'.
4. Executive member of registered non-governmental organization 'Sustainable Fisheries Research Foundation (SUSFISH)', Muvattupuzha.
5. Committee member for the Faculty of Fisheries of Kerala University of Fisheries and Ocean Studies (KUFOS) from 01.06.2011 onwards for starting UG, PG and Ph.D. programmes, the design of curricular structure, course conduct etc.

OTHER ACADEMIC ACTIVITIES

1. Question paper setter for B.FSc., MFSc. and MSc. for KUFOS Panangad, Kochi.
2. Question paper setter for MSc and Ph.D. Entrance examination for KUFOS Panangad, Kochi.
3. Question paper setter for Ph.D. Aquatic Biology of Calicut University.

4. Support M.Sc. students from Dept. of Biotechnology, KVM College, Cherthala for carrying out decapod identification and biostatistics works for their dissertation.
5. Evaluated the MFSc dissertation entitled 'Comparative assessment of heavy metals in bivalve *Villorita cyprinoides* (Gray, 1825) of Vembanad and Ashtamudi backwaters submitted by Miss. Krishna Priya S to Faculty of Fisheries, Kerala University of Fisheries and Ocean Studies on 19.06.2018.
6. Evaluated the MFSc dissertation entitled 'Comparative assessment of water quality parameters in aquaculture grow-out using conventional methods and real time sensors' submitted by Mr. Ajay Adarsh Rao Manupati to Faculty of Fisheries, Kerala University of Fisheries and Ocean Studies on 24.07.2017.
7. Question paper setter for MSc Industrial Fisheries at CUSAT, Kochi.
8. Evaluated the MFSc dissertation entitled 'Biology and population dynamics of *Megalapsis cordyla* (Linnaeus, 1758) occurring along the Kerala waters' submitted by Mr. Vivek Kumar to Faculty of Fisheries, Kerala University of Fisheries and Ocean Studies on 08.09.16.
9. Passing Board Member for MSc and MFSc at KUFOS Panangad, Kochi.

ADDITIONAL PERSONAL SKILLS

- 1) **Statistical packages known:** Talented in statistical software packages like 1) Fish Stock Assessment Tools (FiSAT), ECOPATH with ECOSIM for Fisheries Management, Length Frequency Data Analysis (LFDA) etc.
- 2) **Taxonomy:** Skilled in identification and classification of marine and fresh water finfishes and crustaceans
- 3) **Biology:** Well experienced in studies like Food and feeding, length weight relationship, age and growth, stock assessment and reproduction of crustaceans
- 4) **Fishery:** Data collection of marine fisheries from research vessel, commercial fishing boats and also from landing centers.
- 5) Identification of phytoplankton, zooplankton and benthos

OTHER TRAININGS ATTENDED

1. Attended classes and learned 'Simplified Yoga exercises and Meditation practices' taught by Vethathiri Maharishi Foundation held at Centre for Yoga and Meditation Research, Annamalai University, Parangipettai, Tamil Nadu from 12.02.2001 to 12.04.2001.

LINGUISTIC PROFICIENCY

English, Malayalam (Mother tongue), Tamil and Hindi.