

## **Faculty Profile**



**Mr. V. BALASUNDARAM , M.E., (Ph.D.)**

Assistant Professor (SG)

### **HIGHLIGHTS:**

- Number of Journal Publications: 4
- H-Index: 1
- Project Funding Received: Nil
- Patents Published: Nil
- Patents Granted: Nil

### **PROFESSIONAL LINKS:**

- Anna University Faculty ID: 7135456
- AICTE Faculty ID: 1-9600187618
- Anna University Supervisor ID: NA
- LinkedIn: <https://www.linkedin.com/feed/>

### **PROFESSIONAL BACKGROUND:**

- Teaching experience till date: 12 years
- Industrial experience: Nil

### **AREA OF SPECIALIZATION:**

- Irrigation and Drainage Engineering
- Soil and Water Conservation Engineering
- IoT in Agriculture Engineering

### **COURSES CERTIFIED:**

- Completed TWELVE weeks online course on “Soil and Water Conservation Engineering” authorized by National Programme on Technology Enhanced Learning (NPTEL).
- Completed the FIVE weeks online course on "Water Resources Management and Policy" authorized by University of Geneva and offered through Coursera.



- Completed the SEVEN weeks online course on " Discover Best Practice Farming for a Sustainable 2050" authorized by University of Western Australia and offered through Coursera.
- Completed the FIVE weeks online course on "Introduction to Augmented Reality and AR Core" authorized by Google AR & VR and offered through Coursera.
- Completed 12 weeks NPTEL course on "Natural Resources Management" conducted by IIT, Guwahati from July to October 2023.

#### **ACHIEVEMENTS AND AWARDS:**

- Two times acted as CHAIRMAN for Anna University Agri Board Paper Evaluation at Government College of Technology, Coimbatore.
- Organized INTERNATIONAL Online Conference on World Food Day 2020.
- Received "Best Faculty Award" from Sakthi Engineering College.
- Organized National Event "Texperia'2020" in SNS College of Technology.

#### **CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:**

- Attended and Presented in the **NATIONAL CONFERENCE** in the title of "Dairy Industry Wastewater Treatment Using Tamarind Kernel Seed Powder", AICTE, Vel Tech High Tech, Chennai on 24.01.2014.
- Attended and Presented in the **INTERNATIONAL CONFERENCE** in the title of "Evaluation of the socio-economic impacts of a micro watershed Programme implemented under NWDPR", International Conference on Advances in Science, Management and Engineering (ICASME 2015) on 18 & 19 December 2015, Organized by International Organization of Scientific Research and Development (IOSRD), Chennai, India.
- Attended and Presented in the **VIRTUAL NATIONAL CONFERENCE** in the title of "Trend Analysis of Climatic variables and reference Evapotranspiration: SVM based Modelling Approach", VAGMET 2021 Organized by Ludhiana Chapter, Association of Agrometeorologists & Department of Climate Change and Agricultural Meteorology, Punjab Agricultural University, Ludhiana on March 19<sup>th</sup> 2021.
- Completed Three days Online FDP on "Enhancing Research work of Ph.D. aspirants through systematic approach" conducted by Lokmanya Tilak College of Engineering, Mumbai from 08.06.2020 to 10.06.2020.
- Completed FIVE days Training programme on "Purification of Drinking Water and Health" conducted by Department of Civil Engineering (Earlier Department of Science),



National Institute of Technical Teachers' Training & Research, Kolkata from 08.06.2020 to 12.06.2020.

- Completed FIVE days Training programme on “Water & Wastewater Treatment and Health” conducted by Department of Civil Engineering (Earlier Department of Science), National Institute of Technical Teachers' Training & Research, Kolkata from 22.06.2020 to 26.06.2020.
- Completed THREE days Faculty training programme on “Innovative Food Processing Technologies: Value Addition, Food Safety and Security” conducted by Faculty of Agriculture, Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Akashwani Road, Gwalior from 29.06.2020 to 01.07.2020.
- Completed ONE-week online training Programme on “Advanced Agrometeorological Techniques for Climate Smart Agriculture” conducted by ICAR – NAHEP, Centre for Advanced Agricultural Science and Technology for Climate Smart Agriculture and Water Management (CAAST - CSAWM) Rahuri, from 29.06.2020 to 03.07.2020.
- Completed ONE-week online Faculty training programme on "MICRO IRRIGATION - DESIGN, ESTIMATION & INSTALLATION OF DRIP & SPRINKLER IRRIGATION SYSTEM" organised by Environment, Agriculture & Education Society (EAES) from 08.07.2020 to 13.07.2020.
- Completed FIVE days FDP on “Water and Environmental Modelling using MIKE, Remote Sensing & GIS Applications” organized by Satya Institute of Technology and Management, Gajulalarega, Vizianagaram, Andhra Pradesh from 13.07.2020 to 17.07.2020.
- Completed three days Faculty Development Program on "Sustainable Water Resource Management” Conducted by Karpaga Vinayaga College of Engineering & Technology from 14.07.2020 to 16.07.2020.
- Participated One Week Online Lecture Series “Agricultural Practices and Approaches” organized by School of Agricultural Sciences, Dr. K. N. Modi University, Tonk, (Rajasthan) at National level from 15.07.2020 to 21.07.2020
- Completed Five days FDP on “Integrated Urban Water and Wastewater management", organized by Department of Civil Engineering, PSG Institute of Technology and Applied Research, Coimbatore from 27.07.2020 to 31.07.2020.
- Completed five days FDP on “Fish, Food & Future in 21st Century” organized by Centre for Agricultural Market Intelligence, NAHEP-CAAST, AAU, Anand, and ICAR-Central Marine Fisheries Research Institute, Kochi, Kerala from 20.09.2021 to 24.09.2021.



- Completed five days FDP on “Design Thinking and Creativity for Educators” organized by Vels Institute of science Technology and advanced studies and AICTE Training and Learning (ATAL) from 27.09.2021 to 01.10.2021.
- Completed five days FDP on “Modelling of Water Resources Systems” organized by Central University of Jharkhand and AICTE Training and Learning (ATAL) from 01.11.2021 to 05.11.2021.
- Completed five days FDP on “Waste Technology - Energy Conversion and Utilization” organized by Mohamed Sathak Engineering College and AICTE Training and Learning (ATAL) from 08.11.2021 to 12.11.2021.
- Attended one day seminar on “An Insight on Journal References by Mendeley Tool” organized by the NDLI Club of Saveetha Engineering College, on 17.08.2023.
- Attended one day webinar on “Automate Data Analysis with Minitab” organized by Minitab Team on 22.08.2023.
- Attended one day webinar on “Community Sciences Discussion: Learn, Engage, and Contribute – AGU” organized by Wiley Research Training on 31.08.2023.
- Attended one day seminar on “Get Motivated and Raise Your Confidence” organized by the NDLI Club of Saveetha Engineering College, on 01.09.2023.
- Attended two days webinar Applications of AI and ML in Agricultural Engineering – Unleashing the potential for Food Security” organized by Dr. NTR College of Agricultural Engineering under Institutional Development Plan (IDP) of National Agricultural Higher Education Project, ICAR, New Delhi from 04.09.2023 to 05.09.2023.
- Attended seminar on “PEARSON E-LIBRARY USER ORIENTATION” organized by NDLI Club of Saveetha Engineering College, on 26.09.2023.
- Attended five days’ workshop on “Emerging Challenges of Internet of Things and Artificial Intelligence in the Next Era of Agriculture” sponsored by the Council of Scientific and Industrial Research (CSIR) and organized by the Department of Computer Science and Engineering, Sathyabama Institute of Science and Technology, from 30.10.2023 to 03.11.2023.
- Design pattern “**Agriculture Drone for Monitoring and Spraying Pesticides**” was published on 16.11.2023.
- Attended SIX days FDP on “DRIVING INDUSTRIAL EXCELLENCE WITH MODERN MECHANICAL ENGINEERING INNOVATIONS” organized by Department of Mechanical Engineering, Saveetha Engineering College, Thandalam from 20.11.2023 to 25.11.2023.
- Attended nine days FDP on “Intellectual Property Right and Patent drafting” organized by Department of Mechanical Engineering, Academic and Administrative Development



Centre (AADC), Association of Indian Universities (AIU) by AMET University from 04.01.2024 to 12.01.2024.

- Attended six days FDP on “Practicing Innovatory Methodologies in Emerging Trends” organized by Center of Research and Development, Dhanalakshmi College of Engineering, Tambaram, Chennai from 25.03.2024 to 30.03.2024.

#### **PROFESSIONAL MEMBERSHIPS:**

- International Association of Engineers (IAEng) – LM- 182903 from January 2017.
- Indian Society of Agricultural Engineers (ISAE) – LM-11318 from March 2017.
- Association of Agrometeorologists (AoA) – LM - 1390 from May 2019.

#### **OTHER DETAILS (If any):**

##### **UG level Projects**

- Integrated Farm Monitoring Device using CNN and SSD algorithm.
- IoT Based Automatic Temperature Control for Aquaculture.
- Estimation of evapotranspiration based on climatic variables using Artificial Neural Networking (ANN).
- Assessing the climate data for predicting the evapotranspiration using machine learning models.
- Assessment of Groundwater Quality for Drinking Purpose in a Watershed.

##### **Roles and Responsibilities- Department level**

- Mentor / Class advisor
- NBA coordinator
- Exam cell Coordinator
- Placement Coordinator
- Anna University and AICTE Coordinator
- IQAC and ISO Coordinator