Dr. DILIP R

Assistant Professor
Department of Electronics & Communication Engineering
Preferred Location: Open to Anywhere

SUMMARY

A motivated and highly productive professional with 11 years of teaching experience as an Assistant Professor of Electronics and Communication Engineering. With proven teaching, guidance, and counselling skills, and expertise at communicating complex information in a simple & entertaining manner. Looking to devise captivating, fascinating, and unique teaching practices that creates interest in the students. Interested in utilizing teaching and research skills to support the Department during the upcoming academic year of any reputed educational institution.

PROFILE SNAPSHOT

- A professional with a focus on results who has 11 years of expertise in academic, training, and R&D for both academic and industrial purposes.
- Exhibited exceptional skill in coordinating and planning operational research operations. accomplishment of research objectives and resolution of research issues.
- Developing and implementing the Center Development Plan (CDP), which identifies priorities and targets to ensure that students achieve high standards and make progress, increasing the effectiveness of mentoring, learning, and securing development, in collaboration with staff, parents, careers, and other regulatory authorities.
- A committed leader who is skilled at overseeing administrative tasks such as event management, faculty evaluation/training, and sustaining the institution's ethos.
- Expertise in creating every part of "setting up Academic Institution" for day and boarding students, including resources (infrastructure, staffing, welfare, rules & regulations, and all policy improvement & implementation)
- Capable of using numerous approaches to examine and start changes to various courses, enabling graduates to have a varied and international path for ongoing study.
- Capable of teaching at higher or lower levels as well as accelerated or traditional formats.
- Professional in forming relationships with students, coworkers, and superiors.
- Ability to incorporate new concepts and works of literature into the curriculum.
- Remarkable ability to teach, inspire and develop young people.
- Possess strong knowledge on subject taught for electronics and communication students.
- Ability to generate effective teaching by making use of various methodologies.
- Ability to teach in a multi-ethnic and multicultural environment.
- Proven track record of guiding and motivating student.
- Excellent verbal and written skills, along with a demonstrated ability to collaborate with students, faculty, staff, other institutional colleagues and peers, as well as the public.

CONTACT

- +91 9739100234, 9449633339
- dilip.raju@yahoo.com
  dr.dilipraju@gmail.com
- Bangalore, India
- https://www.linkedin.com/in/dr-dilip-r-22725830

FOR MORE DETAILS

- **Google's Scholar Link:**
  https://scholar.google.com/citations?user=CWQQYGMAAAAJ&hl=en&authuser=1

- **Scopus Link:**
  https://www.scopus.com/authid/detail.uri?authorId=57403374900

PROFESSIONAL SKILLS

- Strategic Planning & Leadership
- Curriculum Development
- Teaching & Mentoring
- Training & Development
- Student Management & Counseling
- Continuous Learning & Development
- Team Management & Leadership
- Student Evaluation & Assessment
- Teaching Strategies
- Time Management
- Lecturing
- Audio-Visual Aid Implementation

ACADEMICS

- **Doctor of Philosophy in Electronics and Instrumentation**
  Visvesvaraya Technological University, Belagavi, Karnataka (2021)
- **Master of Engineering in Control and Instrumentation**
  Bangalore University, Karnataka (2012)
- **Bachelor of Engineering in Instrumentation Technology**
  Visvesvaraya Technological University, Belagavi, Karnataka (2010)

TEACHING EXPERIENCE

Jun'22-Present

Assistant Professor-Department of Electronics & Communication Engineering
Dayananda Sagar Academy of Technology and Management, Bengaluru, Karnataka, India

Sep'21-May'22

Associate Professor-Department of Electrical & Electronics Engineering
Global Academy of Technology, Bengaluru, Karnataka, India

Jul'12-Aug'21

Assistant Professor-Department of Mechatronics Engineering
Acharya Institute of Technology, Bengaluru, Karnataka, India

Professional Highlights:

- Handling a variety of topics relating to Lab VIEW, Instrumentation and Measurements, Sensor Technology, Automotive Electronics, Signals and Systems, Analog and Digital Electronics, Digital Signal Processing, Programmable Logic Controllers, SCADA, Instrumentation and Measurements.
- Conducted research on a variety of themes and published his findings in national and international publications.
- Using Lab View with DAQ devices and a Logic Controller (PLC), HMI, and presentation, testing, and reporting to manage the development of automation tests.
- Carrying out administrative tasks related to curriculum development and creating a lab for virtual instrumentation and automation.
- Serving as:
  - ➢ Department-level IQAC and NBA
  - ➢ Coordinator of Placement
  - ➢ Public Speaker
- Creating educational and vocational programmer material and teaching strategies.
- Assessing the efficiency and effectiveness of curricula, teaching strategies, and programs; ensuring that an organization's operations adhere to federal, state, and local laws.
- Creating various levels of schedules; Getting back to the inquiries quickly
- Ensuring the creation, appropriate transmission of information, and documenting of young people's development in the areas of social, behavioral, and interpersonal development for families and administration.
- Incorporating a working style and guiding pupils through a process of change while having the ability to communicate ideas to a broad audience
- Periodically reexamining the predetermined educational goals, objectives, and classroom instruction plans, as well as creating modern academic and performance goals to match business needs.
- Keeping an eye out for health, behavioral, and emotional problems in students and alerting staff and parents to any issues.
- Develop professional logistics to improvise student performance.
- Guide, lead and mentor students in research projects.
- Participate in departmental and college activities.
- Serve and support functional activities of departmental committees.
- Assess, review and evaluate student activities and progress.
- Assist and support senior professors in their day-to-day tasks and functions.

TECHNICAL SKILLS

- **Microsoft Office Suite:** Word, Excel, Outlook, PPT, Access, OneNote
- **Google Drive:** Analytics, Docs., Slideshow, Sheets, Forms
- **Research:** Source Checking, Intellectual Property Rights, Networking, Outreach, Advanced Google Search
- **Programming Skills:** C, C++, Java, HTML
- **Troubleshooting:** Assessment, System Knowledge, Analytical Skills, Testing, Calm Mindset, Logic, Collaboration
- **Applications/Tools:** Mat Lab, Lab View, Programmable Logic Controllers, HMI's and SCADA, Robotics and Automation, Signal Conditioning and DAQ Devices

ACCREDITATION

- **IBM Certified Professional**- Python, Data Science, Data Analytics, Big Data and Chat Bot.
- **Certified LabVIEW Associate Developer** - National Instruments, India.
- **Lab View Core 1 and Core 2 Certified** from National Instruments India.
- Industrial Robotics training on **IRC 5 Controller Using IRB 1400 Robots and ABB Robostudio from ABB India**

TEXTBOOKS

- **FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE**, by Dr. Dilip R, Bhagirathi S Telkar, Dr Rahul Vivek Purohit in SIPH international Publication bearing ISBN: 9789356252134

- **MACHINE LEARNING-MODERN APPROACH** by Mr. Anvar Shathik J, Dr. Dilip R, Mrs. Renisha P S in SIPH international Publication bearing ISBN: 9789356252493

- **CLOUD COMPUTING & INTERNET OF THINGS:** For Beginners by Dr. Sourabh Bhattacharya, Dr. Arvind Kumar Shukla, Dr. Dilip R in ACADEMIC GURU PUBLISHING HOUSE, ISBN-10: 9394339426, ISBN-13: 978-939433942

VOLUNTARY EXPERIENCE

- Actively working as **Reviewer** in 3 reputed international journal which worldwide recognized.
- **Reviewer for IEEE** access and Active member of IEEE.
- **Advisory Board Member** for International Conference in Recent Advances in Robotics and Mechatronics RARM-2015 Istanbul, TURKEY November 7-8, 2015

ACHEIVEMENTS

- Solely responsible for setting up LabVIEW, PLC, and SCADA Laboratory and making functionally with management's support.
- Resource person for FDP program on LabVIEW, Robotics and Automation at Acharya Institute of Technology and otherEngineering colleges
- Resource person for Training Program on Industrial Robotics using ABB Robots for Department of Mechanical Engineering atAcharya Institute of Technology
- Resource person for Training Program on LabVIEW and Its Applications for Department of Electrical Engineering andMechatronics Engineering of Acharya Institute of Technology
- Resource person for Training Program on PLC and SCADA for Department of Manufacturing Science Engineering
- Guest Faculty for Department of Electronics and Communication at PES University - a Lecture on Micro Controller and itsApplications, PLC, and Its Applications

PUBLICATIONS

- **Dr. Dilip R**, Gupta. N, Janani S, Chaturvedi A, Gupta A. (2022). "Wearable Sensors for Evaluation Over Smart Home Using Sequential Minimization Optimization-based Random Forest" *International Journal of Communication Networks, and Information Security. 14*(2), 179–188.
- **Dr. Dilip R**. (2021). "Automatic Robotic System Design and Development for Vertical Hydroponic Farming Using IoT and Big Data Analysis" *Materials Today Proceeding, Elsevier. 46*(9), ISSN: 2214-7853
- **Dr. Dilip R**. (2021). "Under Water Motion Tracking and Monitoring using Wireless Sensor Network and Machine learning" *Materials Today Proceeding, Elsevier. 46*(9), ISSN: 2214-7853
- **Dr. Dilip R**. (2021). "Healthcare Assistance to COVID-19 Patient using Internet of Things (IoT) Enabled Technologies" *Materials Today Proceeding, Elsevier. 46*(9), ISSN: 2214-7853.
  https://doi.org/10.1016/j.matpr.2021.07.379
- **Dr. Dilip R**. "Jumping robot: A pneumatic jumping locomotion across rough terrain" *Conference Series. 2115*(1), 012008. IOP Publishing
- **Dr. Dilip R**. "Real-time Motion Control of Robot Using Kinect" *Conference Series. 2115*(1), 012010. IOP Publishing
- **Dr. Dilip R**. (2021). "Speech Based Biomedical Devices Monitoring Using LabVIEW" *9th International Conference on Cyber and ITService Management (CITSM)*. 1-7. IEEE
- **Dr. Dilip R**. (2021). "Inclusion of Cloud, Blockchain and IoT Based Technologies in Agriculture Sector" *9th International Conference on Cyber and IT Service Management (CITSM)*. 1-8. IEEE
- **Dr. Dilip R**. (2021). "Optimization of the Execution Time using Socket Mechanism over Cloud Cluster" *Design Engineering.* (9), 3780-3791. ISSN: 0011-9342
- **Dr. Dilip R**. (2020). "Comparison of Space factor, Capacitance value and Impregnated Temperature in MPP Oil Impregnated Polypropylene Film A C Capacitors" *IEEE Explore Digital Library*. 544-547.
  https://doi.org/10.1109/ICSTCEE49637.2020.9277160
- **Dr. Dilip R**, Dr. Ramesh K B. "Design and Development of Speech Recognition System for Bio-Medical Devices Monitoring" *International Journal of Advanced Science and Technology*. 29(8s), 3584 – 3592. (Scopus indexed)
- **Dr. Dilip R**, Dr. Ramesh K B. "Development of Graphical System for Patient Monitoring Using Cloud Computing" *International Journal of Advanced Science and Technology*. 29(8s), 3593 - 3605. (Scopus indexed)
- **Dr. Dilip R**. (2020). "Design of Prototype Battery Management System" *International Journal of Engineering and Advanced Technology (IJEAT).* 16410 – 16416. ISSN: 0193-4120 (Scopus indexed)
- **Dr. Dilip R**. (2020). "Revitalized Screen Reader for Visually Challenged" *Test Engineering and Management.* 83(May -June 2020), 16410–16416.

WORKSHOPS & TRAININGS

- Seven Day International Workshop on **Artificial Intelligence in Healthcare** at Kumara Guru College of Engineering, Chennai (2020)
- Five Day International Workshop on **LabVIEW and its Application** from National Instruments (August 2020)
- Three Day Workshop on **IEEE IAS Smart Health Monitoring "VIT" Vellore** Tamil Nadu (March 2019)
- Three Day Workshop on **Advanced Industrial Automation "VIT" Vellore** Tamil Nadu (March 2018)
- Three-day Workshop on **Research Challenged and Issues in Iot Applications** at PSG, Coimbatore, Tamil Naidu (Feb'2018)
- Two Day Workshop on **Industrial Iot at Crescent Institute of Technology** Chennai, Tamil Nadu (2018)
- Three-day Workshop on **Signal, Image Processing & SDR using Lab View** at JSSATE Bangalore, Karnataka, India
- Two Days Workshop on **Wavelet Transform and Basic Theory and Practice** hosted by Manipal Institute of Technology, Manipal, Karnataka, India

PATENTS

PATENTS GRANTED

- The design and idea were submitted for patent protection and published on July 21, 2021, with the Application number **2021104321** with the heading **"A System for Medical Cloud Data Classification for IOT Aware Smart Healthcare" –has been Granted on 25/03/2022.**

- The design and idea were submitted for patent protection and published on January 25, 2022, in the Germany Patent magazine **DE 202022100433 U1** with the heading **"Smart pen that uses pressure sensors on the grip and machine learning to detect people's mental concentration" –has been Granted on 10/03/2022.**

- The design has been applied and published Indian Patent journal on **16th December 2022** bearing the Application number **351440-001 with the title "A Wireless Mouse' has been Granted on 16/12/2022.**

PATENTS PUBLISHED

- The concept and idea were submitted for patent protection and published on June 20, 2021, with the Application number **2021103492** with the heading **"Portable sampling water drip irrigation system with sampling protector"**

- **Dr. Dilip R**, Vidya C, Ayushi Gupta, Kshitij Ramkumar Kurup, Sarveshwar.S. (2020). "Design and Development Of E-Rodeo (A Hybrid Electric cycle)" *International Journal of Advanced Science and Technology*. 29(8s), 2956-2963. (Scopus indexed)
- **Dr. Dilip R**, Bharath N, Kushal Dayananda K, Lokananda Karunakaran, Shirin Varghese. (2020). "Design and Development Of E- Prescription System" *International Journal of Advanced Science and Technology*. 29(7s), 4282-4290. (Scopus indexed)
- **Dr. Dilip R**, Dr. Ramesh K B. (2019). "Design and Development of Intelligent System for Human Body Monitoring System Using GUI" *International Journal of Emerging Technologies, and Innovative Research Impact factor - 5.87. 6*(6), 449-451. ISSN: 2349-5162 UGC Approved (Journal No: 63975)
- **Dr. Dilip R**, Dr. Ramesh K B. (2019). "Design and Development of Virtual Instrumentation System for Measurement of Human Body Parameters" *International Journal of Engineering research & Technology Impact factor - 7.86. 8*(06), ISSN: 2278-0181
- **Dr. Dilip R**, Dr. Ramesh K B. (2019). "Design and Development of Silent Speech Recognition System for Monitoring of Devices" *International Journal for Research in Applied Science & Engineering Technology (IJRASET) Impact factor -7.177. 7*(VI), ISSN: 2321-9653; IC Value: 45.98
- **Dr. Dilip R**, Dr. Ramesh K B. (2019). "Design and Development of Programmable-Pi Controller for Automation" *International Journal of Emerging Technologies, and Innovative Research Impact factor - 5.87. 6* (6), 799-802. ISSN: 2349-5162 UGC Approved (Journal No: 63975)
- **Dr. Dilip R**. "Cell Phone Based Liquid Inventory Management Using Wireless System" *Mechanics & Industry Research*. https://doi.org/10.12966/jmir.05.01.2013
- **Dr. Dilip R**. "Image Processing Techniques for Coin Classification Using LabVIEW" *Artificial Intelligence*. https://doi.org/10.12966/ojai.08.03.2013
- **Dr. Dilip R**. (2014). "Real Time Control System for Industrial Automation" *Management and Technology Research*. ISSN 2277-291X
- **Dr. Dilip R**. (2014). "Maximum Speed Achieved with DSP Algorithm and Application of Unfolding" *Management and Technology Research*. ISSN 2277-291X

DECLARATION

I hereby declare that all the details mentioned above are in accordance with the truth and fact as per my knowledge and I hold the responsibility for the correctness of the above-mentioned particulars.

Date:
Place: **Dr. Dilip R**

- The concept and idea were submitted for patent protection and published on June 24, 2021, in the Australian Patent Journal **2021103607** with the heading "**Artificial Intelligence in Healthcare and Medicine Enhancing the Expert**"
- **202121030563**- **"The System and Method of Artificial Intelligence and Image Processing Approaches in Damage Assessment and Material Evaluation."**- Journal of the Patent Office No. 32/2021 Dated 06/08/2021
- **202141042625**- **"An Artificial Intelligence and Deep Learning Method for Detecting Impressions Using Internet of Thing"**- Journal of the Patent Office No. 40/2021 Dated-01/10/2021
- **202141047948**- **"WSN-IOT Clustering for Secure Data Transmission In E- Health Sector Using Green Computing"**-Patent Office Journal No. 44/2021 Dated 29/10/2021
- **202121037944** - **"A Machine Learning and IOT Based System for Incorrect Posture Detection "**- Patent Office Journal No. 46/2021 Dated 12/11/2021
- **202141055304**- **"An Artificial Intelligence System for Biomedical Devices Monitoring Using Speech Command and Internet of Things"** – Patent Office Journal No. 50/2021 Dated 10/12/2021.