



DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT
(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)
Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore- 560082
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Accredited 3 years by NBA, New Delhi (Validity : 26-07-2018 to 30-06-2021)

Faculty Name	Dr. Tripti R kulkarni
Designation	Assistant Professor
Educational Qualification	Ph.D
Experience in Years	18 years
Area of Interest	Medical Signal Processing, VLSI and Embedded Systems
Email ID	triptikulkarni@dsatm.edu.in triptikulkarni@gmail.com
Google Scholar ID	https://scholar.google.com/citations?user=T6PVgpwAAAAJ&hl=en



Educational Details

- Ph.D in Visvesvaraya Technological University.
- M.Tech in VLSI and Embedded systems under Visveswaraya Technological University
- B.E in Visveswaraya Technological University

Personal Details

- Date of Birth: 12/02/1981
- Hobbies: singing, Badminton, swimming, cooking, Exercise workout
- Languages Known: Kannada ,English ,Hindi ,Marathi

Professional Experience

- Working in Dayananda Sagar Academy of Technology and Management from 24/07/2014 till date
- Worked as Assistant Professor in E&C Department at PESIT Engineering college from 04/09/2006 to 30/5/2014
- Worked in Forbes Ltd as a Project Trainee for 1 year from 1/5/2005 to 30/6/2006

Publications

International Journals:

Year 2022

1. Tripti R Kulkarni, Vinayak Bhat, "Real Time Prosthetic Hand ", Journal of Embedded Systems and Processing, Volume-7, Issue-3 (September-December, 2022), <https://doi.org/10.46610/JOESP.2022.v07i03.001>

Year 2021

2. **Tripti R Kulkarni, N.D. Dushyanth, "Early and noninvasive screening of common cardio vascular related diseases such as diabetes and cerebral infarction using photoplethysmograph signals", Results in Optics, Volume 3, 2021,100062, ISSN 2666-9501, <https://doi.org/10.1016/j.rio.2021.100062>.(<https://www.sciencedirect.com/science/article/pii/S2666950121000109>) (ELSEVIER)-WEB OF SCIENCE**
3. **Tripti R kulkarni , N.D Dushyanth, "Performance Evaluation of Deep Learning Models in Detection of Different Types of Arrhythmia Using Photo plethysmography Signals", International Journal of Information Technology(BJIT) An Official Journal of Bharati Vidyapeeth's Institute of Computer Applications. ISSN 0973-5658, Int. j. inf. tecnol. September 25th (2021). <https://doi.org/10.1007/s41870-021-00795-8> (SPRINGER-SCOPUS-UGC APPROVED)**
4. **Tripti R kulkarni , N.D Dushyanth, "Empirical Mode Decomposition Based Signal Denoising And Heart Rate Estimation From PPG Signal", International Journal Of Current Engineering And Scientific Research (IJCESR), SN (PRINT): 2393-8374, (ONLINE): 2394-0697, VOLUME-8, ISSUE-5, 2021, DOI:10.21276/ijcesr (Published)**

Year 2020

5. **Tripti Kulkarni and Rashmi Naik," IOT Based Precision Agriculture With Predictive Analysis", Journal of SEYBOLD Report, Volume 15, Issue 8, August-2020**

Year 2019

6. **Tripti Kulkarni and Pallavi Kulkarni," Detection of Stolen Vehicle with Traffic Control System and Ambulance Clearance",International Journal of Innovative Science and Research Technology(IJISRT) ISSN NO:-2456-2165, Article Digital No-IJISRT19MY485, Vol 4, Issue 5. May-2019**
7. **Pallavi Kulkarni Tripti Kulkarni ,"Secure Health Monitoring of Soldiera With Tracking Syatem Using IoT: A Survey ", International Journal of Trend in Scientific Research and Development(IJTSRD), Vol-3, Issue-4 (May-Jun 2019), Impact Factor 5.125 in the year 2019 by I2OR**

Year 2011

8. **Tripti Kulkarni and Srivathsava N L ," Novel design of VCO with output peak to peak control", IRNet Second International Conference on Control, Communication and computer Technology (CCCT 2011), Bangalore, Nov 2011 .
This work also been published in Interscience Open Access Journals, International Journal of Instrumentation, Control and Automation (IJICA), ISSN: 2231-1890, Volume 1 Issue 2.**

National Conferences:

Year 2017

1. **Pallavi Kulkarni & Tripti Kulkarni "Analysis of Security Threats and Countermeasures in Cloud Computing" in the " National Conference on Convergence of Science , Technology and Management NCCSTM-2017" held on 19**

th May 2017 at Dayananda Sagar Academy of Technology and Management, Bangalore.

2. Tripti Kulkarni & Pallavi Kulkarni, “Digital Processing of SPO2 from PPG Signal” in the “ National Conference on Convergence of Science , Technology and Management NCCSTM-2017” held on 19 th May 2017 at Dayananda Sagar Academy of Technology and Management, Bangalore

Year 2011

3. Tripti Kulkarni & Sai Shruthi. V.P, “Intelligent system for process control and supervision”, National conference on Advances in Electronics and Intelligent computing, East West Institute of Technology, May 2011.
4. Tripti Kulkarni, Tejas.S, Prajwal R “A Novel approach for Traffic Avoidance using pre- emptive concept”, First National Conference on computational Control Systems and Optimization(CCSO 2011), Dr. Ambedkar Institute of Technology , May 2011.

International Conferences:

Year 2017

1. Tripti Kulkarni and Mokshit B R, “ NANOROBOTICS THE FUTURE OF MEDICINE”, International conference on wearable Technologies(ICOWT-17) held at Dayananda Sagar University, School of Engineering, Bengaluru on 22nd -23rd June 2017.

Year 2016

2. Tripti kulkarni and B Niranjana Krupa “Noninvasive Method to find Oxygen Saturation of the fetus using photoplethysmogram” international conference ICEECOT-2016, Mysore 9-10 Dec. 2016, DOI: 10.1109/ICEECOT.2016.7955182,Publisher: IEEE

Year 2013

5. Tripti Kulkarni and savitha Kempannavar: “ Expandable Cache Design for embedded Systems” International Conference on VLSI,Communication,Advanced devices, Signals & Systems and Networking, VCASAN 2013 – July 17-19’ in BNMIT, Engineering College, Bangalore, India.

Year 2012

3. Tripti Kulkarni and Srivathsava N L : “ Low Power clock-synchronizer for SOC with delay line controller (DLC) in 45nm CMOS Technology “, work on PLL under 45nm technology has been archived in IEEE Xplore, International Conference on Advanced Communication, Control and Computing Technologies (ICACCCT) 2012 proceedings, ISBN: 978-1-4673-2047-4. can also be viewed on the following link on Sr. No.55. <http://www.syedengg.ac.in/pdf/icacct12>.
4. Tripti kulkarni,chaitra Arun,pooja MP: “Simulation of a vending machine using VHDL” International conference on Electronics and communication Engineering(ICECE) held on April 16th, 2012 ,Pune.Organised by IRNet Bhubaneshwar.

5. **Tripti Kulkarni, Dinesh kumar, Pooja. M. P:** “Simulation of a thermal printer (using USB to serial converter)” International conference on Electronics and communication Engineering(ICECE) held on April 16th, 2012 ,Pune.Organised by IRNet Bhubaneshwar.
6. **Tripti Kulkarni and Srivathsava N L ,”** Low Power Differential Output Phase Locked Loop in 45nm CMOS Technology “, work on PLL under 45nm technology has been archived in IEEE Xplore, under 4th International Conference on Electronics Computer Technology, “ICECT 2012” held during April 6-8 2012, in Kanyakumari, India. proceedings, ISBN: 978-1-4673-1849-5.
7. **Tripti Kulkarni and Narala Swathi,”** CMOS Full Adder For Energy-Efficient Arithmetic Applications”, ICVSP-2012 International Conference on VLSI and Signal Processing May 4-5, 2012 , K.S. Institute of Technology

Year 2011

8. **Tripti Kulkarni and Srivathsava N L ,”** Novel design of VCO with output peak to peak control”, IRNet Second International Conference on Control, Communication and computer Technology (CCCT 2011), Bangalore, Nov 2011 .

Academic Activity

- **Working in Dayananda Sagar Academy of Technology and Management from 24th July 2014 till date**
- **8 years of teaching Experience in PESIT, Bangalore**
- **Proficient in university teaching.**
- **Handled class strength of 20 students to a maximum of 100 students.**
- **Experienced in project and seminar co-ordination**
- **Experienced in Process coordination**
- **Experienced in Web Uploading coordination**
- **Conducted Workshops**
- **Arranged Guest Lectures**
- **Exposure to hardware and software design.**
- **Proficient in the subjects taken during the semester course work.**
- **Functioned as Internal and External examiner for consecutive years.**
- **Functioned as “VTU Team Member” and “PESIT” for evaluation of university theory exam papers**
- **Ability to work efficiently as an individual and as a team member**
- **Headed as NBA Coordinator for Criteria 2 and Criteria 7**
- **Headed as NAAC Coordinator for Criteria 1 and criteria 4**
- **Experienced as a Test Coordinator**
- **Experienced as WEB coordinator**
- **Coordinator and conducted many activities for Women Empowerment cell**

Faculty Development Activity

Workshops and Seminars Attended

- 2 days workshop on Research methodologies, PESIT ,Bangalore
- 2 days workshop on Microcontrollers in RNSIT, Bangalore
- Nokia QT training for 5 days in SJCE- Mysore
- 1 day seminar on wireless networks in BMSIT ,Bangalore
- 5 day Faculty Development on MSP430,C200,stellaris in Texas Instrument
- Advanced VLSI Design Methodologies in PESIT, Bangalore
- Outcome based Accreditation Process and Parameters
- Texas Instruments India Educators conference
- Engineering Applications of Linear Algebra
- Masters and Beyond
- IEEE Explore Digital Library User Awareness Program me
- Four Day Faculty Development Program On” Arm Cortex M3 Embedded Controllers”held on January 8th – 11th ,2018 at Dayananda Sagar Academy of Technology & Management
- 3 day NBA Workshop 2017 held on 12th & 13th December 2017 at Dayananda Sagar Academy of Technology & Management
- 3 day Faculty Development program on “OBE PRACTICES” organized by Dayananda Sagar Academy of Technology And Management held on 18th,19th & 20th June 2018
- 1 day webinar on “ Data Analytics and Machine Learning” held on 18/5/20 by Cypher Analytica
- 1 day webinar on “Smart Battery Energy management and health conscious Fast Charging For future Transportation”, held on 28th April 2020 by IEEE student branch by St Josephs Institute of Technology
- Completed E Quiz on “Outcome Based Education Systems” held on 02/06/2020 by ECE branch of GSSS Institute of Engineering and Technology for women, Mysuru
- 1 day webinar on “ Data Analytics and Machine Learning” held on 18/5/20 by Cypher Analytica
- 1 day webinar on “Smart Battery Energy management and health conscious Fast Charging For future Transportation”, held on 28th April 2020 by IEEE student branch by St Josephs Institute of Technology
- Completed E Quiz on “Outcome Based Education Systems” held on 02/06/2020 by ECE branch of GSSS Institute of Engineering and Technology for women, Mysuru
- 5 days workshop on "Research Trends in Biomedical Applications funded by NewGen -IEDC,DST,Govt.of India organized by Department of Electronics and Communication Engineering, B. N. M. Institute of technology from 22nd to 26th October 2021

Workshops and Industrial Visits conducted

- Workshop on “Linux Internals python scripting and application development on Django Framework” for 1 week for final year students.
- Industrial visit to DigiKraft Company for M.Tech and B.E students.
- On 8th April 2015 and 16th April organized a Industry Visit for 50 students of 6th Semester students accompanied by two staff members on both the days. The visit was to Bharat Heavy Electronics Limited (BHEL), Electronics Division, Mysore Road , Bangalore.
- Arranged a visit to IISC on the occasion of Open day Event held on 23rd march 2019
- Arranged many Guest Lecturers

Administrative Activity

- Proctor Coordinator for Department at Institutional level.
- Website Coordinator of the department
- Women Empowerment Cell member and Coordinator
- Functioned as Internal and External examiner for consecutive years.
- Functioned as “VTU Team Member” and “PESIT” for evaluation of university theory exam papers
- Ability to work efficiently as an individual and as a team member
- Headed as NBA Coordinator for Criteria 2 and Criteria 7
- Headed as NAAC Coordinator for Criteria 1 and criteria 4
- Experienced as a Test Coordinator

Course Completed

- NPTEL Course on Outcome Based Pedagogic Principles for effective Teaching with 75% Silver+Elite
- Programming for Everybody (Getting started with Python) an online non-credit course authorized by University of Michigan and offered through Coursera
- Introduction to Deep learning certification of completion by Great Learning

Contact Details

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Bengaluru-560082
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kulkarnitripti@gmail.com

My Vision

To create a better everyday life for the many people