

Jayamurugaraja A.P.

Assistant Professor
Department of Electronics & Communication Engineering
Dhirajlal Gandhi College of Technology
Opp. To Salem Airport
Salem – 636 309.

Academic Education and Qualification:

Degree/ Examination	Institute/Univ./Board	Year of Passing	Percentage	Remarks
M.E (VLSI Design)	Sona College of Technology, Salem	2015	88.9	First Class with Distinction
B.E (ECE)	Sona College of Technology, Salem.	2011	92.70	First Class with Distinction
HSC(Class 12 th)	Sri VidhyaMandir MHSS,Steel Plant, salem,Tamil nadu State Board.	2007	92.47	First Class
SSLC(Class 10 th)	Sri VidhyaMandir MHSS,Steel Plant, salem,Tamil nadu State Board.	2005	87.27	First Class

Professional Work Experience (3.7 years):

- Working as **Assistant Professor in the department of Electronics and Communication Engineering**, Dhirajlal Gandhi College of Technology, Salem from 4th June 2015 to till date.
 - Subjects handled:
 - Electronic circuits-1 (EC 6304)
 - Linear Integrated circuits (EC 6404)
 - Microprocessor and Microcontroller(EC 6504)
 - VLSI design (EC 6601)
 - Laboratories handled:
 - Analog and Digital Circuits Laboratory (EC 6311)
 - Object Oriented Programming Laboratory (EC 6312)
 - Linear Integrated Circuits Laboratory (EC 6412)
 - Microprocessor and Microcontroller Laboratory (EC 6513)
 - VLSI design Laboratory (EC 6612)
 - Circuits and Simulation Integrated Laboratory (EC 6411)
- Worked as **Systems Engineer in Infosys Limited** from June 2011 to August 2013
 - Domain: Data warehousing
 - Responsibilities:
 - Involved in requirement gathering, solution designs for ETL jobs (**IBM Datastage and Jaspersoft**).
 - Experience in developing Jaspersoft jobs and maintained the same.
 - Hands-on experience in developing reports with IBM Cognos.
 - Good exposure to DB2 and Oracle databases.
 - Experience in creating **UNIX shell scripts** to automate the Datastage jobs.
 - Trained and Maintained a strong programming and development background in Java

NET Qualified:

- Qualified for **Assistant Professor in CBSE-UGC NET- December 2015**

Responsibilities held:

- E-yantra Ideas competition **college level Coordinator**.
- **E-yantra robotics lab in charge**.
- **Institute Social Responsibility (ISR) Technical team** member of Dhirajlal Gandhi College of Technology, Salem
- **Coordinator** of 1st National conference on Emerging trends in communication systems (NCETCS-2016)
- **IEEE blended vlsi design course** coordinator.
- Member of **Creativity team** of Dhirajlal Gandhi College of Technology, Salem
- **Technical training Coordinator** for placements in core companies in the Department of Electronics and Communication Engineering, Dhirajlal Gandhi College of Technology
- **Gate coordinator** in the Department of Electronics and Communication Engineering, Dhirajlal Gandhi College of Technology
- Member of **Industry institute interaction team** in the Department of Electronics and Communication Engineering, Dhirajlal Gandhi College of Technology
- **Class advisor**
- **Newsletter and Annual report coordinator** for the Department of Electronics and Communication Engineering, Dhirajlal Gandhi College of Technology
- Programs organised in the department details coordinator

Academic Credentials:

Rank holder:

Anna university rank holder (34th) in the examinations held during 2007-2011

Journal Publication:

- S. Venkatesh, M. Karthick, K. Supriya, A. P. Jayamurugaraja "A CSRR Loaded Patch Antenna for Cognitive Radio Application" Scientific Research Publishing Inc, Circuits and Systems, 2016, 7, 1476-1485
- M. Karthick, A.P. Jayamurugaraja, S. Santhosh, S. Venkatesh "An Intelligent IRNSS Navigation System Based on Internet of Things (IoT) Platform" Lamsys-2016, organized by Indian Space Research Organization, Bangalore.
- Jayamurugaraja. A.P, Meenakshi. V "Neural network based dimming level control of LED network", *International Journal on recent and innovation trends in computing and Emerging Technologies* communication, volume 3 issue: 2
- Jayamurugaraja. A.P, Meenakshi. V "Illuminance control of a LED lighting network using back propagated neural network", *International Journal of innovative trends and Emerging technologies*, Volume 1, Special issue 2 (ICITET 15)

International Conference :

- Presented paper entitled "Artificial Neural Network based character recognition approach for tamil characters" in IEEE sponsored *International conference on innovations in information, Embedded and Computing systems (ICIIECS'16)* at Karpagam college of Engineering, Coimbatore on 17th and 18th march 2016
- Jayamurugaraja. A.P, Meenakshi. V "Illuminance control of a LED lighting network using back propagated neural network", *International Conference on Innovative trends in Engineering and technologies* held at Dhanish Ahmed college of Engineering, Chennai on 20th and 21st march 2015

National Conference:

- Presented paper in *1st National conference on Emerging trends in communication systems (NCETCS-2016)* on the title “**Virtual Ground and Transmission gate based SRAM cell design for improved stability in ROM embedded SRAM**”, organized by Dhirajlal Gandhi College of Technology on 2nd April 2016.

Key Skills:

IT Skills:

- Basics of C and C++, UNIX, SQL
- Java
- J2EE application development
- IBM certified solution developer
- RDBMS
- Embedded C

Software/Tools Expertise: AVR studio, ModelSim, Xilinx – VHDL/Verilog, Microwind, Mentor graphics, Multisim, P-Spice, MATLAB – Image processing, Neural networks, IBM DATASTAGE 8.5, Jaspersoft BI, IBM Cognos 10

Area of Interest: Robotics, VLSI design, Analog electronics, Digital Electronics, Microprocessor & Microcontroller, Image processing, Neural networks

Current learning area: Robotics, Data analytics

Current learning software tool: NI LabView

Workshop/Training delivered:

- Conducted a one day inter college workshop on “**Fundamentals of Robotics**” as a part of (NCETCS-2016)
- Conducted multiple training sessions on “**Introduction to robotics and Embedded system based on SPARK V and Arduino**” as a part of ISR for the benefit of school students

Workshops\ Trainings participated:

- Attended three day **workshop** on “**Fundamentals of Robotics**” conducted by **E-yantra team, IIT-Bombay** for the establishment of e-Yantra robotics lab
- Successfully completed **e-yantra national level competition 2016** with merits and won cash award.
- Completed **task based training** with top grade as the next higher level training for e-yantra robotics lab conducted by e-yantra team, IIT-Bombay
- Participated in three days **FDP** on “**Embedded systems**” held at Velalar college of Engineering and Technology from 16th to 18th December 2015
- Participated in the two days **National workshop** on “**Signal and Image Processing**” at Sona College of technology on 4th and 5th December 2015
- Attended “**One day workshop on MICROWIND**” organized by the department of ECE – PG held on 24th SEP 2014 at Sona College of Technology, Salem.
- Undergone training under **Educational and Research Department, Infosys Limited, Mysore.**

The details of the courses are given below

- OO Concepts using JAVA
- RDBMS
- Unix
- Client Tier using HTML and Java Scripts
- J2EE Application development
- IBM DATASTAGE 8.5
- Jaspersoft BI
- IBM Cognos 10

Industry Visits:

- One day visit to **Radio Astronomy Centre**,ooty
- One day visit to the work floor and labs of **Tessolve semiconductor Pvt.Ltd.**,Bangalore as a part of Industry Institute Interaction
- One day visit to work floor of Megawin Switchgear Private Limited,Salem

In plant Training :

Name of the concern	No. of days	Brief about the training
Salem Steel Plant (SSP)	8	Entire function of SSP
Mettur Thermal Power Station, Mettur dam	6	Electrical and Electronic functioning

Leadership/Team work:

- E-yantra Ideas competition 2017 **college level coordinator**
- Staff coordinator of *1st National conference on Emerging trends in communication systems (NCETCS-2016)*
- Institute social responsibility(ISR) **technical team member**
- **Technical training head** of electronics and communication department.
- **Incharge of ETL job** development and active member of business intelligence team for Crompton greave's project in **Infosys Limited**
- ECE-Department association student **Treasurer** for the year 2010-2011 in Sona College of Technology
- **Office bearer** of UNECS, Association of ECE in Sona College of Technology
- **Active member of organizing committee** of National Conference on trends in Communication held at Sona College of Technology
- **Active member of organizing committee** of National level technical symposium "Fractals'10" held at Sona College of Technology

Extra – Curricular Activities:

- Represented India Business unit in the Business units level **Volley ball tournament** within **Infosys Limited**
- **Consistent participant and winner** as a team in School level **Volley ball tournaments**
- **Active participant of school level athletic events and have won prizes.**
- **Active member of Youth Red Cross** and have participated in **blood donation and rallies**