## Department of Electronics and Instrumentation Engineering

### Personal Details

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| **Name :** | K. Rathna Priya |
| **Designation :** | Assistant Professor(O. G) |
| **Educational Qualification :** | M. Tech., |
| **Experience:** | 12 Years |
| **Area of Specialization :** | Control & Instrumentation |
| **Date of Joining :** | 20-06-2012 |
| **Email ID :** | rathnapriyak.eie@valliammai.co.in <br> k.rathnapriya@yahoo.com |
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### EDUCATION DETAILS

| S.No | Degree | Branch/Specialization | Institution / University | Year |
|---|---|---|---|---|
| 1 | B.E. | Instrumentation & Control Engineering | Bharath Institute of Science & Technology/Madras University | 2004 |
| 2 | M.E. | Instrumentation & Control Engineering | Dr. M. G. R. Research and Educational Institute University | 2012 |

### Professional Society Memberships

ISTE- Life Member

IAENG- Life Member

### Publication Details

**Journals:**

1. Modeling and Controller Design of PEM Fuel Cell System at International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering on May2014
2. AC-AC Resonant Boost Converter for Induction heating Applications at Discovery, The International Daily Journal on June2015
3. Design and Simulation of Function Generator Prototype by Additive, Subtractive Manufacturing And Programming at International Journal Of Science And Innovative Engineering & Technology on May 2016.
4. Integrative Detection of Open Drainage, Garbage & Drainage over Flow and Current Leakage using Zigbee Technology at International Journal of Engineering Science and Computing on March2017.
5. Autonomous Residential threat Neutralization system at International Journal of Modern Trends in Engineering and Science on April2018.
6. Doctors Assistive System using Augmented Reality for Critical Analysis at International Journal of Research in Engineering, Science and management on March2019.
7. IoT Based Traffic Control System for Ambulance at International Journal of advance Research and Innovative Ideas in Education on March'2020.
8. Adaptive router architecture for Network on chip using FPGA at Journal of Composition Theory on March 2021.

**Conferences:**

1. 'Position control of Hybrid stepper motor using steady state extended kalman filter' in National Conference on recent trends in electrical and communication Engineering 2013 at Shree Motlal Kanhaiyalal Fomra Institute of Technology on February8-9,2013
2. Modeling and Controller Design of PEM Fuel Cell System in National Conference on Innovative Techniques in Power Engineering and Drives , ITPED-2014 on March2014

3. AC-AC Boost Conveter With Multi MOSFET Inverter For Induction Heating Applications at 2<sup>nd</sup> ational Conference on Emerging Trends in Electronics, Instrumentation and Control (EtEIC-2015) on 2015

4. Design And Implementation Of Function Generator Prototype By Additive, Subtractive Manufacturing And Programming at International Conference on Science and Innovative Engineering on April 2016.

**Other Particulars:**

**Workshop Attended**

- Participated in **Two-week ISTE Workshop** on **ANALOG ELECTRONICS** conducted by Indian Institute of Technology through ICT(MHRD) Kharagpur from **4<sup>th</sup> to 14<sup>th</sup> June 2013.**

**Workshop Organized**

- Organized Workshop on "**System Design using Raspberry Pi**" on **13.2.2017** for students of EIE in Valliammai Engineering College.
- Organized Workshop on "**Emerging Trends in Industrial Automation**" on **26.2.2021** for students of EIE in SRM Valliammai Engineering College.

**Webinar Attended**

- Attended Online Webinar on **Artificial Intelligence** by Department of ECE, Mahendra Institute of Technology on **06.05.2020**.
- Attended Online Webinar on **Robotics & its future** by Department of EIE, SRM Valliammai Engineering College on **29.06.2020**.

**FDP Attended**

- Completed FDP on **Industrial Instrumentation**-**II** organized by Department of EIE- Anna University-MIT Campus during **28<sup>th</sup> May to 4<sup>th</sup> June 2012**.
- Completed FDP on **Communication Engineering** organized by Department of EIE- Valliammai Engineering College on **28<sup>th</sup> and 29<sup>th</sup> January 2017**.
- Completed FDP on **EE 6301- Electrical Measurements** organized by Department of EIE-Valliammai Engineering College on **29<sup>th</sup> and 30<sup>th</sup> May 2017**.
- Completed FDP on **EE 6403- Discrete Time Systems and Signal Processing** organized by Department of EIE- Valliammai Engineering College on **7<sup>th</sup> and 8<sup>th</sup> November 2017.**
- Completed FDP on **EC 8351- Electron Devices and Circuits** organized by Department of EIE-Valliammai Engineering College on **21<sup>st</sup> and 22<sup>nd</sup> May 2018.**
- Completed FDP -NPTEL AICTE (Funded by the Ministry of HRD, Govt. of India) on **Gender Justice and Workplace Security** in **Aug- Sep 2018.**
- Completed 2 weeks Refresher Course/ FDP(Virtual) on **Recent Innovations in Electrical, Electronics, Instrumentation, Automation & Teaching Pedagogy** from **18.05.2020 to 30.05.2020** by Sri Sairam Engineering College in association with MHRD.
- Participated in AICTE sponsored Six Days Virtual Short Term Training Programme(STTP) on "**Applications of Artificial Intelligence towards Industry 4.0**" from **18/01/2021 to 23/01/2021(Slot 3)** by Department of EIE -Sri Sairam Engineering College.
- Completed one week FDP Online on '**Essentials of Outcome Based Education**' between **15<sup>th</sup> March to 19<sup>th</sup> March 2021** by Dr. M.G.R Educational and Research Institute University.

**FDP Organized**
- Organized Faculty Development Programme on '**Computer Control of Processes' from 15/11/2016 to 16/11/2016** by Department of EIE, Valliammai Engineering College.
- Organized Faculty Development Programme on '**Control of Processes and Concepts of Electrical Machines' from 12/11/2018 to 17/11/2018** by Department of EIE, Valliammai Engineering College.

**Expert Lecture delivered**

- Delivered Expert Lecture in Faculty Development Programme for the subject "**EE 6306- Linear Integrated Circuits and Applications** on **28th June 2016** by Department of EEE, Valliammai Engineering College.
- Resource person for the part time Value Added Course on "**Training on PLC & SCADA for monitoring and Control Applications**" at Valliammai Engineering College during **24/7/2017 to 11/8/2017**.
- Delivered Expert Lecture in Faculty Development Programme **EI 6801-Computer Control of processes on 15th and 16th November 2016** by Department of EEE, Valliammai Engineering College.
- Delivered Expert Lecture in Faculty Development Programme **Process Control on 17th and 18th November 2016** by Department of EEE, Valliammai Engineering College.
- Resource person for Online Faculty Development Programme on "**Electronic Devices, Microprocessors and Image Processing**" by Department of EIE, SRM-Valliammai Engineering College during **11/5/2020 to 15/5/2020**.(Handled 3 Sessions).
- Delivered Expert Lecture in AICTE Sponsored STTP on "**Modern Optimization Tools used in Engineering Field-I" on 07th October 2020** by Department of EIE, SRM-Valliammai Engineering College.
- Delivered Expert Lecture in Faculty Development Programme on **1905402-Electrical Machines-II" from 23rd to 28th November 2020** by Department of EEE, SRM Valliammai Engineering College.
- Delivered Expert Lecture in Faculty Development Programme on **Digital Logic Circuits, Computer Control of processes and Biomedical Instrumentation" from 30th November to 05th December 2020** by Department of EIE, SRM Valliammai Engineering College.

**Others Coordinations**

- Participation in **Faculty Orientation Programme** held on **29th and 30th November 2012** at Valliammai Engineering College.
- Participation in **Faculty Orientation Programme** held on **30th and 31st December 2013** at Valliammai Engineering College.
- Organized **9th National Level Technical Symposium ORKESTRIM' 2k20** on **21.2.2020** at SRM-Valliammai Engineering College.

**Certification Courses**

- NPTEL Online Certification (Funded by the Ministry of HRD, Govt. of India) **Introduction to Research in Jan-Feb 2016.**
- NPTEL Online Certification (Funded by the Ministry of HRD, Govt. of India) on **Outcome Based Pedagogic Principles for Effective Teaching in Jan-Feb 2017.**
- Completed Certification course from EXCEL Automation Solutions on "**Control and Automation Engineer" with Programmable Logical Controllers(DELTA), Supervisory Control and Data Acquisition(KINGVIEW) and HMI/MMI(DELTA) from 2/6/2017 to 7/6/2017.**
- NPTEL Online Certification (Funded by the Ministry of HRD, Govt. of India) on **Electronic Waste Management-Issues and Challenges in Feb- March 2018.**
- NPTEL Online Certification (Funded by the Ministry of HRD, Govt. of India) on **Gender Justice and Workplace Security in Aug- Sep 2018.**
- Completed NITTT-2021 Module 1on "**Orientation towards Technical Education & Curriculum Aspects" in March 2021.**

**Awards/ Laurels**

- ➢ Certificate of Appreciation for having published **one Research paper in Journal** during the **AY 2013-14.**
- ➢ Certificate of Appreciation for having published **one Research paper** in Journal during the **AY 2014-15**.
- ➢ Certificate of Appreciation for having published **one Research paper** in Journal during the **AY 2015-16.**
- ➢ Certificate of Appreciation for having published **one Research paper** in Journal during the **AY 2017-18**.
- ➢ Secured **100% pass** percentage in CL7101- Control System Design during **the AY 2014-2015.**