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|---|---|---|
| <b>Name</b>   | Ms. Monica K M  |  |
| <b>Date of Birth</b>  | 23/05/1992  |   |
| <b>E-mail ID</b>  | Monika-eee@dsatm.edu.in   |   |
| <b>Permanent Address</b><br>“Sri Kanteshwara Swamy Nilaya”<br>No. 498, 5 <sup>th</sup> main, 7 <sup>th</sup> cross,<br>K S Town<br>Dist: Bengaluru 560060,<br>Karnataka | <b>Residential Address</b><br>“Sai Soudha Apartments”, No. 197, 7 <sup>th</sup><br>cross, Kaderenahalli cross,<br>Banashankari 2 nd stage, Bangalore<br>560070, Karnataka |   |

## RESUME

| Job Profile  |                        |                          |
|--|------------------------|--------------------------|
| Organization   | Designation            | Duration                 |
| Dayananda Sagar Academy of Technology and Management | Assistant Professor    | August 2019- Till date   |
| Dayananda Sagar College of Engineering               | Junior Research Fellow | February 2017- June 2019 |
| Acharya Institute of Technology                      | Assistant Professor    | June 2016- January 2017  |
| <b>Total Experience</b>                              | 3 Years                |                          |

| Educational Background |  |                     |                 |           |                              |
|------------------------|--|---------------------|-----------------|-----------|------------------------------|
| Degree                 | Specialization                         | Board/University    | Year of Passing | Aggregate | Class Awarded                |
| Ph.D                   | Power Electronics                      | VTU                 | In progress     |           | -                            |
| M.Tech                 | Power Electronics                      | VTU (PESIT, B'lore) | 2016            | 82.87%    | First Class with Distinction |
| B.E                    | Electrical and electronics Engineering | VTU (SJBIT, B'lore) | 2014            | 86.28%    | First Class with Distinction |

| International Journal | International Conferences | National Conferences | Workshops Attended | No. of Projects guided |
|-----------------------|---------------------------|----------------------|--------------------|------------------------|
| 2                     | 2                         | 1                    | 9                  | UG<br>2                |

| Professional Memberships |  |                 |
|--------------------------|--|-----------------|
| Type of Membership       | Name of Society                        | Membership Year |
| Associate Member         | The Institute of Engineering           | 2016            |
| Life Member              | Indian Society for Technical Education | 2018            |

| <b>Details</b>                      |   |
|-------------------------------------|---|
| <b>Title of M.Tech Dissertation</b> | Implementation of SAS using LCC resonant converter and interfacing with boost converter   |
| <b>Title of B.E Project</b>         | Design of an optimized stand-alone hybrid solar wind power plant-<br><b>KPCL</b>  |
| <b>Research Projects Completed</b>  | 1. Multi Object Tracking in the Presence of Occlusion in Aerial Image Sequences<br>A funded project by DRDO, New Delhi  |
| <b>Mini Project</b>                 | Design and implementation of vehicle collision avoidance system on FPGA   |
| <b>Academic Achievements</b>        | 1. Qualified GATE twice and NET once.<br>2. Awarded top rank holder in Academics  |
| <b>Technical Skills</b>             | 1. Assembly language programming<br>2. Programming in C<br>3. Embedded C<br>4. Modeling of electric machines and FACTS controller(MATLAB and Simulink)<br>5. FPGA   |
| <b>Trainings and Seminars</b>       | 1. Training on ‘Technocians- An industry oriented technical training programme’ organized by ZesTech(Aug 2013)<br>2. Training on ‘Solar photovoltaic grid connected power plants’ organized by KPCL(Sept 2013)<br>3. Seminar on Emerging trends in power systems and power electronics research(Feb 2014)<br>4. Seminar on Smart grid technologies(March 2015)<br>5. Internship in HAL –Helicopter department (ALH Final Assembly) (Sept 2015)<br>6. Internship in Pro-control automation private limited.(Oct to Dec 2015) |

| <b>Subjects Taught</b> |                            |              |
|------------------------|----------------------------|--------------|
| <b>Sl.No</b>           | <b>Name of the subject</b> | <b>UG/PG</b> |
| 1                      | Network Analysis           | UG           |
| 2                      | Electric power generation  | UG           |
| 3                      | Logic Design               | UG           |
| 4                      | Power systems              | UG           |
| 5                      | Analog Electronic Circuits | UG           |
| 6                      | Signals and Systems        | UG           |
| 7                      | Digital Signal Processing  | UG           |

| <b>Workshops Attended</b> |   |              |   |
|---------------------------|---|--------------|---|
| <b>Sl.No</b>              | <b>Course Title</b>                               | <b>Place</b> | <b>Date</b>                                       |
| 1.                        | Pedagogy for Online and Blended Teaching-Learning | IIT Bombay   | 14 <sup>th</sup> Sep to 12 <sup>th</sup> Oct 2017 |

|    |   |                  |   |
|----|---|------------------|---|
|    | Process (Online)  |                  |   |
| 2. | Foundation Program in ICT for Education (Online)                  | IIT Bombay       | 3 <sup>rd</sup> Aug to 7 <sup>th</sup> Sep 2017     |
| 3. | Outcome based pedagogic principles for effective teaching(Online) | NPTEL            | 24 <sup>th</sup> Jul to 19 <sup>th</sup> Aug 2017   |
| 4. | Optimization in Design and Engineering                            | RVCE, Bangalore  | 9 <sup>th</sup> to 11 <sup>th</sup> March 2017      |
| 5. | Optimization using MATLAB   | RVCE, Bangalore  | 16 <sup>th</sup> to 18 <sup>th</sup> Feb, 2017      |
| 6. | MATLAB Fundamentals and Statistical Tools                         | RVCE, Bangalore  | 5 <sup>th</sup> to 10 <sup>th</sup> December, 2016  |
| 7. | Faculty Pedagogical Development Program                           | Bangalore        | 27 <sup>th</sup> April to 1 <sup>st</sup> May, 2015 |
| 8. | Recent trends in SCADA and Energy Management Systems              | SJBIT, Bangalore | 26 <sup>th</sup> to 30 <sup>th</sup> July, 2011     |
| 9. | Harmonic Analysis and FACTS Devices using Mi power package        | SJBIT, Bangalore | 28 <sup>th</sup> to 30 <sup>th</sup> Jan, 2010      |

| <b>Extra Curricular Activities</b> |   |                                |                             |
|------------------------------------|---|--------------------------------|-----------------------------|
| <b>Sl.No</b>                       | <b>Activity</b>                         | <b>Organiser</b>               | <b>Participated /Winner</b> |
| 1                                  | International Badminton Tournament 2017 | PES University                 | 1 <sup>st</sup> Place       |
| 2                                  | State level Basketball Tournament       | Basketball Federation Of India | 1 <sup>st</sup> Place       |
| 3                                  | State level Volleyball Tournament       | Sports Authority of India      | Participation               |
| 4                                  | International Badminton Tournament 2021 | PES University                 | Runner                      |
| 5                                  | Staff Badminton Tournament 2021         | BMS school of Architecture     | Winner                      |
| 6                                  | Badminton tournament                    | Sri Gandha Foundations         | Runner                      |

### **International Journal**

1. Monica K M, Sunitha N S, Shivkumar K S, **“Implementation of SAS using LCC resonant converter and interfacing with boost converter”** Imperial Journal of Interdisciplinary Research (IJIR) Vol-3, Issue-3, 2017 (Special Issue) , ISSN: 2454-1362, <http://www.onlinejournal.in> Proceedings of 4th International Conference on Current Trends in Engineering, Science Technology and Management

### **International Conferences**

1. Monica K M, Shravya A R, Vindhya P Malagi, Krishnan R, "**A Comprehensive Survey on a Multi Object Tracking Under Occlusion in Aerial Image Sequences**", International Conference on Engineering and Technology (ICET-2018), Bangalore - March 2018.
2. Monica K M, Abhay A Deshpande, "**Motion detection: A bio-mimetic vision sensor versus a CCD camera sensor**", International Conference on Emerging Research in Computing, Information, Communication and Applications (ERCICA-2014), Bangalore – August 2014. The Proceeding is published in **ELSEVIER**

#### **National Conferences**

1. Monica K M, Smitha S V, Sushma J, Sowmya K S, "**Design of an optimized stand-alone hybrid solar wind power plant**", 3<sup>rd</sup> National Conference on Advanced Techniques in Electrical Engineering (ATEE-2010), Bangalore-March 2010.

I hereby declare that the information furnished above is true to the best of my knowledge

**Ms. Monica K M**