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|---|---|----------------------|----------------------------|----------------------|
| <b>Name:</b>                              | <div style="text-align: right;">  </div> <p style="text-align: center;"><b>N SHIVAANIVARSHA</b></p> |                      |                            |                      |
| <b>Designation:</b>                       | <p>ASSOCIATE PROFESSOR<br/>DEPARTMENT OF ECE<br/>SRI SAIRAM ENGINEERING COLLEGE</p>   |                      |                            |                      |
| <b>Qualification:</b>                     | <p>B.E,M.E,(PhD)</p>  |                      |                            |                      |
| <b>Area of specialization:</b>            | <p>APPLIED ELECTRONICS</p>  |                      |                            |                      |
| <b>Experience :</b><br>(As On Dec 2020)   | <b>Industrial Experience</b>  |                      | <b>Teaching Experience</b> |                      |
|   | <p>9 months</p>   |                      | <p>21.1</p>                |                      |
| <b>Number of workshop / FDP attended:</b> | <b>Number of Workshops</b>  |                      | <b>Number of FDPs</b>      |                      |
|   | <p>19</p>   |                      | <p>26</p>                  |                      |
| <b>Publications:</b>                      | <b>Conference</b>   |                      | <b>Journal</b>             |                      |
|   | <b>National</b>   | <b>International</b> | <b>National</b>            | <b>International</b> |

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|  | <b>13</b>  | <b>15</b> | <b>-</b>             | <b>16</b> |
| <b>Patents:</b>                              | <b>National</b>  |           | <b>International</b> |           |
|  | <b>03</b>  |           | <b>-</b>             |           |
| <b>Professional<br/>Body<br/>Membership:</b> | IETE – M 231947  |           |                      |           |
|  | ISTE – LM 131451   |           |                      |           |
|  | IEEE- M 98060050   |           |                      |           |
|  | International Association of Engineers(IAENG)- M 271814                    |           |                      |           |
|  | Institute of Research Engineers and Doctors (IRED) – AM2020112805          |           |                      |           |
|  | Institute for Engineering Research and Publication(IFERP)-<br>PMIN25371649 |           |                      |           |

## Staff

### Achievements:

- Department Time Table Coordinator
- Certified ISO Auditor
- Department NBA Criteria 5 Coordinator
- **National Conference Coordinator** for the conference conducted in the year **2014**.
- Department **Symposium Coordinator** in the year **2015**.
- Entrepreneurship Awareness Camp Coordinator for the **EAC-2016**.
- Completed NPTEL Course on **Integrated Circuits, MOSFETS, Op-Amp and their Applications with ELITE certification**
- Completed NPTEL Course on **Fabrication Techniques for MEMS-based Sensors: Clinical Perspective with TOP 1% ELITE certification**
- Completed NPTEL Course on **Outcome Based Pedagogic Principles for Effective Teaching with ELITE certification**
- Completed NPTEL Course on **Electronic Systems for Cancer Diagnosis with ELITE certification**
- Completed NPTEL Course on **Introduction to Internet of Things with GOLD - ELITE certification**
- Completed NPTEL Course on **Cloud Computing**.
- Completed NPTEL Course on **NBA Accreditation and Teaching – Learning in Engineering**.
- Coordinator for the Workshop on **Sensor Network Platform and Tools** Conducted on 24.10.20

- Completed NPTEL Course on **Sensors and Actuators-April-2021.**
- Completed NITTTR Module 7 on **Creative problem solving ,innovation and meaningful R&D - Sep-2021.**
- Attended Faculty Industrial Training Program at **I.P.L. PRODUCTS, Thirumudivakkam, during the period 06.06.2022 to 11.06.2022.**
- Completed NITTTR **Modules 2,3 4 and 8 - Aug-2022.**
- Delivered lecture on **Sensor Network Platforms & Tools** at Sri sairam Engineering College on 17.11.22
- Completed NPTEL Course on **IIOT 4.0- Nov-2022.**

**Workshop Details:**

| Sl. No. | Title  | Venue                          | Month/ Year                   |
|---------|--|--------------------------------|-------------------------------|
| 1       | Academic for excellence.   | MNM Jain Engineering College   | 22 July 2006                  |
| 2       | Recent Trends in Wireless Information Networks and System              | Sri Sairam Engineering College | 1 <sup>st</sup> February 2008 |
| 3       | High Speed Digital Design and Testing                                  | MIT Campus                     | 23 <sup>rd</sup> October 2009 |
| 4       | Research Methodologies in next generation wireless network using opnet | Sri Sairam Engineering College | 19.08.2010 to 21.08.2010      |

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|  | <b>5</b>  | Next generation wireless networks                        | IE(I),Chennai                    | 5 <sup>th</sup> March 2011                         |
|  | <b>6</b>  | Quality management System and Audit training             | Sri Sairam Engineering College   | 11 <sup>th</sup> Oct & 12 <sup>th</sup> Oct -2011  |
|  | <b>7</b>  | Wireless Communication and Radiating Systems             | Sri Sairam Engineering College   | 21 <sup>st</sup> & 22 <sup>nd</sup> March 2011     |
|  | <b>8</b>  | OPNET Simulator  | Sri Sairam Engineering College   | 21 <sup>st</sup> March 2012                        |
|  | <b>9</b>  | MEMS technology and its Applications                     | Raja Lakshmi Engineering College | 28 <sup>th</sup> and 29 <sup>th</sup> March 2012   |
|  | <b>10</b> | Entrepreneurship Summit                                  | Sri Sairam Engineering College   | 8 <sup>th</sup> -10 <sup>th</sup> – January 2013   |
|  | <b>11</b> | Embedded system application using ARM                    | VIT,Chennai                      | 13 <sup>th</sup> December, 2013                    |
|  | <b>12</b> | Training on Quality Management System and Audit training | Sri Sairam Engineering College   | 8 <sup>th</sup> June 2018                          |
|  | <b>13</b> | Rapid Prototyping -IOT and Embedded System Design        | Sri Sairam Engineering College   | 12 <sup>th</sup> to 14 <sup>th</sup> November 2018 |

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|---------------------|----------------|--|---------------------------------|--|
|                     | 14             | Leadership Talk-Series   | MHRD's Innovation Cell          | 16 <sup>th</sup> may 2020  |
|                     | 15             | Micro Fluidic Technology and its application for Viral Diagnosis | Rajalakshmi Engineering College | 21 <sup>st</sup> May 2020  |
|                     | 16             | Accelerating Industry 4.0 - A Post Covid Paradigm                | ICT Academy                     | 27 <sup>th</sup> May 2020  |
|                     | 17             | Leadership Talk-Series   | MHRD's Innovation Cell          | 30 <sup>th</sup> May 2020  |
|                     | 18             | Leadership Talk-Series   | MHRD's Innovation Cell          | 13 <sup>th</sup> June 2020                                       |
|                     | 19             | Leadership Talk-Series   | MHRD's Innovation Cell          | 20 <sup>th</sup> June 2020                                       |
| <b>FDP Details:</b> | <b>Sl. No.</b> | <b>Title</b>   | <b>Venue</b>                    | <b>Month/Year</b>  |
|                     | 1              | VHDL Programming   | Sri Sairam Engineering College  | 6 <sup>th</sup> march 2010                                       |
|                     | 2              | Work Life Balance for Engineering and Management Faculty         | Sri Sairam Engineering College  | 16 <sup>th</sup> February 2012 to 22 <sup>nd</sup> February 2012 |

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|  | <b>3</b>  | MAT LAB Applications in Electrical Engineering                             | Sri Sairam Engineering College | 7 <sup>th</sup> March 2012                       |
|  | <b>4</b>  | World class Higher learning Institutions and Faculties                     | Sri Sairam Engineering College | 12 <sup>th</sup> December 2012                   |
|  | <b>5</b>  | Embedded systems with ARM 7 microcontrollers                               | Pantech Proed Pvt ltd          | 25 <sup>th</sup> & 26 <sup>th</sup> June,2015    |
|  | <b>6</b>  | Internal faculty training program on Python programming                    | Sri Sairam Engineering College | 30.10.17 to 06.11.17                             |
|  | <b>7</b>  | Entrepreneurship Career Development Program                                | Sri Sairam Engineering College | 08.04.19-12.04.19                                |
|  | <b>8</b>  | FDP on Fabrication Techniques for MEMS based Sensors: Clinical Perspective | NPTEL                          | Jul – Oct 2018                                   |
|  | <b>9</b>  | FDP on Outcome Based Pedagogic Principles for Effective Teaching           | NPTEL                          | Aug- Sep 2018                                    |
|  | <b>10</b> | IIC Online Sessions  | MHRD's Innovation Cell         | 28 <sup>th</sup> April-22 <sup>nd</sup> May-2020 |

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|  | <b>11</b> | 9 Hours FDP on Digital Marketing  | ICT Academy   | 6 <sup>th</sup> May to 12 <sup>th</sup> May - 2020  |
|  | <b>12</b> | ATAL FDP on Cybersecurity   | NITTR, Chandigarh   | 28 <sup>th</sup> may – 1 <sup>st</sup> June 2020    |
|  | <b>13</b> | STTP on Deep Learning Applications  | SVCE,Sriperumbudur  | 19 <sup>th</sup> to 23 <sup>rd</sup> Oct - 2020     |
|  | <b>14</b> | ATAL FDP on Wearable Devices  | College of Engineering Pune.                                      | 21 <sup>st</sup> Sep to 25 <sup>th</sup> Sep        |
|  | <b>15</b> | STTP on Recent Trends in wireless communication using IOT                       | Vidya Jyothi Institute of technology, Hyderabad                   | 9 <sup>th</sup> Nov to 16 <sup>th</sup> Nov -2020   |
|  | <b>16</b> | ATAL FDP on Artificial Intelligence   | CSIR-Advanced Materials and Processes research Institute, Bhopal. | 16 <sup>th</sup> Nov-20 to 20 <sup>th</sup> Nov-20  |
|  | <b>17</b> | ATAL FDP on IOT   | IIIT,Kottayam   | 7 <sup>th</sup> Dec-20 to 11 <sup>th</sup> Dec-20   |
|  | <b>18</b> | STTP on Evolution of RF electromagnetics from microwave to MM wave technologies | VJTI,Mumbai   | 19 <sup>th</sup> Dec '20 to 23 <sup>rd</sup> Dec'20 |



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|  | <b>19</b> | ATAL FDP on Sensor Technology   | SRMIST, Chennai                         | 4 <sup>th</sup> Jan -21 to 8 <sup>th</sup> Jan -21 |
|  | <b>20</b> | ATAL FDP on Bio medical and health care applications                                    | Gautam buddha University, Noida         | 21st Jun -21 to 25 th Jun 21                       |
|  | <b>21</b> | ATAL FDP on AI and IOT  | KGiSL Institute of Tech, Coimbatore     | 7th Jun-21 to 11th Jun -21                         |
|  | <b>22</b> | ATAL FDP on Medical Image processing and 3d applications                                | University college of Engineering, Pune | 5th Jul-21 to 9th Jul -21                          |
|  | <b>23</b> | FDP on Deep learning foundations and applications                                       | VIT, Chennai                            | 5th -July-21to 14th Jul -21                        |
|  | <b>24</b> | Faculty Development Programme on Artificial Intelligence for Real Time Applications     | Mepco Schlenk Engineering College       | 25 - 29 April, 2022.                               |
|  | <b>25</b> | Faculty Development Programme on Exploring AR/VR tools using unity tool.                | Sri Sai ram Institute of technology     | 11-15 july- 2022                                   |
|  | <b>26</b> | Faculty Development Programme on Signal processing ,AI and ML in biomedical engineering | SSN, Chennai                            | 16-18 Nov 2022                                     |

| <b>International Conference Details:</b> | <b>Sl. No.</b> | <b>Title</b>  | <b>Venue</b>   | <b>Month/Year</b>                             |
|--|----------------|---|--|---|
|  | 1              | Performance Analysis of Adaptive switching between STBC and SFBC for MIMO-OFDM system           | International Conference-Sun College of Engineering and Technology | March 2011                                    |
|  | 2              | A low power OFDM system based on Memory less FFT/IFFT Processor                                 | International Conference - Maria College of Engg                   | 8 <sup>th</sup> & 9 <sup>th</sup> Mar 2012    |
|  | 3              | Wireless Tele monitoring of Wearable device for recording bio potentials using Embedded systems | International Conference - Adhiparasakthi College of Engineering   | 3 <sup>rd</sup> to 5 <sup>th</sup> April 2013 |
|  | 4              | Robotic ARM Controller  | International Conference-JKK Nataraja College of Engg              | 7-8 Mar 2014                                  |

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|  | <b>5</b> | Real time Monitoring of Respiratory parameters using wireless portable system      | International Conference-<br>Jawahar engineering college            | 5 <sup>th</sup> April 2015                     |
|  | <b>6</b> | Design and Implementation of Home brew Ham radio                                   | International Conference-<br>AdhiParasakthi College of Engineering. | 20 <sup>th</sup> -21 <sup>st</sup> April 2016  |
|  | <b>7</b> | A Design Of Firefighting And Supervising Self-Sufficient Robots                    | International Conference -<br>Jeppiaar Engineering College.         | 23 <sup>rd</sup> – 24 <sup>th</sup> March 2017 |
|  | <b>8</b> | Fabrication of E-Nose Sensor for detection of Butane Gas using Nano Porous silicon | International Conference -<br>Sri Sairam Engineering College        | 21 <sup>st</sup> -22 <sup>nd</sup> Feb 2019    |
|  | <b>9</b> | A Novel Approach for Monitoring RoadWay Surface using CNN Classifier               | International Conference -<br>Sri Sairam Engineering College        | 10 <sup>th</sup> to 11 <sup>th</sup> Dec '20   |

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|  | <b>10</b> | Computational Theory based non invasive biometric finger vein pattern extraction and authentication for electoral system. | International Conference ,S RM Valliammai Engineering College                         | 10th April - 2021    |
|  | <b>11</b> | Block chain in Food Supply chain  | International Conference ,IE TE Chennai   | 4th - 5th Jun - 2021 |
|  | <b>12</b> | A deep learning neural network model for predicting and forecasting the Cryptocurrency -Dogecoin using LSTM algorithm     | Virtual International Conference on Futuristic technologies VICFCNT 2021, Chennai,VIT | 10-11-Dec 2021       |
|  | <b>13</b> | Interactive Chatbot for space science using Augmented reality - an educational Resource.                                  | VICFCNT 2021, Chennai,VIT   | 10-11-Dec 2021       |
|  | <b>14</b> | An Efficient Design and implementation of High-speed Booth Multiplier using Shift Opt Algorithm                           | International Conference ,ICCST 22 ,Sri Sairam Engg Collge                            | 9-10 Nov 2022        |
|  | <b>15</b> | Design of High Energy Efficient Eco-Friendly Low-Cost Hybrid Auto   | International Conference - Sri Sairam Engineering College                             | 8-9 Dec 2022         |

| <b>National Conference Details:</b> | <b>Sl. No.</b> | <b>Title</b>  | <b>Venue</b>                              | <b>Month/Year</b>                               |
|-------------------------------------|----------------|---|---|---|
|                                     | 1              | Inter vehicular critical message assist using an integrated embedded system through Zigbee      | NCRAEEA'12-IRTT,Erode                     | 29 <sup>th</sup> Feb & 1 <sup>st</sup> Mar 2012 |
|                                     | 2              | Integrated Embedded System for inter vehicular communication.                                   | NCETCIT-Sri Sairam Engineering College    | 2 <sup>nd</sup> March 2012                      |
|                                     | 3              | Next Generation E-voting System Haptic Touch Screen Interface                                   | NCETCIT-Sri Sairam Engineering College    | 1 <sup>st</sup> & 2 <sup>nd</sup> March 2012    |
|                                     | 4              | Integrated Embedded System for inter vehicular communication.                                   | NCCT'12-Mepco Schlenk Engineering College | 2 <sup>nd</sup> March 2012                      |
|                                     | 5              | A low power OFDM system based on Memory less FFT/IFFT Processor                                 | NCVLSI'12-Velammal Engineering College    | 16 <sup>th</sup> March 2012                     |
|                                     | 6              | Wireless Tele monitoring of Wearable device for recording bio potentials using Embedded systems | SDIP'13-PSNA College of Engg and Tech     | 22 <sup>nd</sup> Mar 2013                       |

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|  | 7  | Real time Monitoring of Respiratory parameters using wireless portable system  | St. Joseph College of Engineering            | 20 <sup>th</sup> March 2015                   |
|  | 8  | Multipower Generation from Railway Traction System with energy conservation  | MNM engineering College                      | 28 <sup>th</sup> -29 <sup>th</sup> April 2017 |
|  | 9  | Smart Voting using Finger Vein Extraction and Authentication   | Sri Sairam Engineering College               | 27 th March 2018                              |
|  | 10 | Smart Voting   | RMD Engineering College                      | 2 <sup>nd</sup> April-2018                    |
|  | 11 | Secured Food delivery and Monitoring Using Blockchain Algorithm  | RMD Engineering College                      | 2 <sup>nd</sup> April 2019                    |
|  | 12 | Interactive chatbot for space science using augmented reality an educational resource  | VIT,Chennai                                  | 13th Dec 2021                                 |
|  | 13 | Computer -aided detection of Anti microbial disorders in Solanum lycopersicum leaf and recommendation of Corp using Convnet. | Kumaraguru college of Technology,C oimbatore | 21st May 2022                                 |

| Journal Details: | Sl. No. | Title | Journal Name | Volume/ Date |
|------------------|---------|-------|--------------|--------------|
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|--|---|---|--|---|
|  | 1 | Inter-Vehicular Critical Message Assist Using An Integrated Embedded System Through Zig bee               | Embedded systems ,i-manager  | Vol.No;02 , May-July-2012,ISSN-2278-7895            |
|  | 2 | Real time Monitoring of respiratory Parameters using a wireless Portable system.                          | International journal of Engineering development and research(IJERD ).         | 2014- ISSN: 2321-9939                               |
|  | 3 | Robotic Arm Control using Bluetooth Device with an Android Application                                    | International Journal of Engineering Research & Technology (IJERT)             | ISSN: 2278-0181 - 2014                              |
|  | 4 | Wireless Tele Monitoring of Wearable Device for Recording Bio potentials Using Embedded Terminal Platform | International Journal of System Design and Information Processing              | ISSN 2321-0591-2017                                 |
|  | 5 | To develop an efficient solution for the problem of sharing confidential data in public cloud.            | International journal of engineering science Invention research & development. | Vol:III,Issue XII<br>June 2017<br>e- ISSN:2349-6185 |

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|----|---|---|---|
| 6  | Design & Construction of Supervising and firefighting self-Governing Robots.                              | Middle East of scientific research journal.   | Vol:25(4)<br>ISSN:1990-9233-2017              |
| 7  | Secured Food Delivery and Monitoring using Block chain Algorithm  | Journal of Test Engineering and Management  | ISSN: 0193 - 4120 Page No. 14343 – 14349-2020 |
| 8  | Smart Relay for Monitoring and Controlling the Systems  | International Journal of Engineering Research & Technology                          | ISSN: 2278-0181<br>Volume 9, Issue 5          |
| 9  | Study and Analysis of the Effective Geometries for the Piezoresistive Pressure Sensors                    | Turkish Journal of Computer and Mathematics Education                               | Vol.12 No.6(April - 2021), 281-288            |
| 10 | Design Of Iot Based Smart Ration Dispensing System Using Load Cell Feedback To Prevent Ration Fraudulence | International journal of creative research thoughts                                 | Vol.9.issue 6.<br>June 2021                   |
| 11 | Fully Automated Segmentation and Classification of Breast Cancer using Machine Learning Techniques        | International Journal Of Scientific Research In Engineering And Management (Ijsrem) | Vol.5.issue 6.<br>June 2021                   |



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|  | <b>12</b> | Design of iot based low cost rodent repelling device using ultrasonic frequency   | International Journal Of Scientific Research In Engineering And Management (Ijsrem) | Vol.5.issue 7.<br>July 2021  |
|  | <b>13</b> | Computational Theory based non invasive biometric finger vein pattern extraction and authentication for electoral system. | imanger's journal   | Vol.8.No.2<br>July 2021  |
|  | <b>14</b> | Autonomous on-site segregation of metals and non metals using a scrap collecting robot.                                   | IEEE Explorer   | <b>DOI:</b><br>10.1109/IC3IO<br>T53935.2022.9<br>767861<br><br>June 2022 |
|  | <b>15</b> | A ConvNet based Real-time Detection and Interpretation of Bovine Disorders  | IEEE Explorer   | <b>DOI:</b><br>10.1109/IC3I<br>OT53935.20<br>22.9767880<br><br>June 2022 |
|  | <b>16</b> | Ai Based Web Application for Disease Identification   | International Journal of All Research Education and Scientific Methods (IJARESM)    | ISSN: 2455-6211<br><br>Volume 10,<br>Issue 6, June-2022                  |

| <b>Patent Details:</b> | <b>Sl. No.</b> | <b>Title</b>   | <b>Journal Name</b>               | <b>Appl. No</b>        |
|------------------------|----------------|--|-----------------------------------|------------------------|
|                        | 1              | A Device to peel Fodders Skin  | Indian Patent Journal - Published | Nov-2020-202041048978  |
|                        | 2              | Floating Bot for monitoring human existence in hydrometeorological disasters | Indian Patent Journal - Published | Dec- 2021-202141054392 |
|                        | 3              | Smart Safety Helmet with Face Mask   | Indian Patent Journal- Filed      | July 2022-367224-001   |

**Additional Details:**

**GOOGLE SCHOLAR LINK:**

<https://scholar.google.com/citations?user=4r0NIqoAAAAJ&hl=en&scioq=shivaanivarsha>