


**FACULTY INFORMATION**

**PERSONAL INFORMATION**

|                            |  |   |
|----------------------------|--|---|
| <b>Name</b>                | Dr. Vinay Kumar S B  |  |
| <b>Designation</b>         | Assistant Professor  |   |
| <b>Official Email ID</b>   | <a href="mailto:sb.vinaykumar@jainuniversity.ac.in">sb.vinaykumar@jainuniversity.ac.in</a> |   |
| <b>Academic Experience</b> | 8 years  |   |
| <b>Industry Experience</b> | 0.5 years  |   |
| <b>Core Discipline</b>     | Electronics and Communication Engineering  |   |
| <b>Specialization</b>      | Electronics Engineering  |   |
| <b>Research Interest</b>   | VLSI, Evolutionary Algorithm, Embedded Systems   |   |

**PROFESSIONAL QUALIFICATION**

| Qualification / Discipline (Start with UG degree) | Year of Passing | Institution                              |
|---|-----------------|--|
| Ph.D.   | 2018            | Jain (Deemed-to-be University)           |
| M.Tech.   | 2012            | Jain (Deemed-to-be University)           |
| BE  | 2009            | Coorg Institute of Technology, Ponnampet |

**MEMBERSHIP OF PROFESSIONAL BODIES**

| Professional Society         | From Year | Nature of Membership |
|------------------------------|-----------|----------------------|
| Institute of Scholars (InSc) | 2018      | Lifetime Membership  |

**SUMMARY OF RESEARCH PUBLICATIONS**

**INTERNATIONAL JOURNALS**

| Journal Name   | Date, Volume & Issue No (From the Latest)                | Paper Title  |
|--|--|--|
| International Journal of Advanced Science and Technology                                   | ISSN:2005 - 4238, Vol 29, Issue 3, April 2020            | Design of circular antenna with codirectional CSRR for penta band applications.                      |
| International Journal of Scientific & Technology Research                                  | ISSN:2277 - 616, Vol 9, Issue 2, February 2020           | Detection of disease in sugarcane leaf using IoT.  |
| International Journal of Advanced Trends in Computer Science and Engineering               | ISSN:2278 - 3091, Vol 8, No. 6, November – December 2019 | Fertilizer optimization by an smart soil analyzer with a soil tester for agriculture applications.   |
| Springer Berlin Heidelberg   | ISSN:1864 - 5909, July 2019                              | Optimal floor planning in VLSI using improved adaptive particle swarm optimization.                  |
| Multiagent and Grid Systems - IOS Press  | ISSN:1574 - 1702, Vol 14, April 2018                     | Multi - culture diversity based self adaptive particle swarm optimization for optimal floorplanning. |
| Journal of King Saud University - Computer and Information Sciences                        | ISSN:2213 - 1248, January 2018                           | Review on VLSI design using optimization and self - adaptive particle swarm optimization.            |
| International Journal of Advance Research, Ideas and Innovations in Technology             | ISSN:2454 - 132X, Vol 2, Issue 1, 2018                   | Bus integrated tracking system.  |
| Journal of Advanced Research in Dynamical and Control Systems                              | ISSN:1943 - 023X, Special Issue 12, 2017                 | Role of various evolutionary algorithms for VLSI floorplanning.                                      |
| International Journal of Research - Granthaalayah  | ISSN:2394 - 3629 (P), Vol 5, Issue 2, April 2017         | Bus integrated tracking system.  |
| New Review of Information Networking   | ISSN:1361 - 4576, Vol 22, No. 1, May 2017                | Interactive self improvement based adaptive particle swarm optimization.                             |
| International Journal of Engineering Research and Applications                             | ISSN:2248 - 9622, Vol 5, No. 5, May 2015                 | Proof collection from car black box using smart phone for accident detection.                        |
| International Journal of Electronics and Communication Engineering and Technology (IJECET) | ISSN:0976 - 6472, Vol 4, No.3, 2013                      | Comparative analysis of multi stage cordic using micro - rotation technique.                         |
| International Journal of Engineering and Advanced Technology (IJEAT)                       | ISSN:2249 - 8958, Vol 2, No. 6, May 2013                 | Testing of diameter - based protocol in the IP multimedia subsystem.                                 |
| International Journal of Computational Engineering Research                                | ISSN:2250 - 3005, Vol 2, No. 1, February 2012            | 2n - 1 reversible multiplexer and its transistor implementation.                                     |
| International Journal of Soft Computing and Engineering (IJSCE)                            | ISSN:2231 - 2307, Vol 6, No. 1, January 2012             | Diameter - based protocol in the IP multimedia subsystem.  |

**SUMMARY OF CONFERENCES PARTICIPATED**

**INTERNATIONAL CONFERENCES**

| Name of the Conference   | Organizer, Place  | Year |
|--|---|------|
| 6 <sup>th</sup> International Conference on Advances in Computing, Control, and Telecommunication Technologies | Hyderabad   | 2016 |
| International Conference on Innovations in Electronics and Communication Engineering (ICIECE)                  | Guru Nanak Institute of Technology, Hyderabad             | 2016 |
| International Conference on Information Security & Privacy - Paper 1   | Sahyadri College of Engineering and Management, Mangalore | 2016 |
| International Conference on Information Security & Privacy - Paper 2   | Sahyadri College of Engineering and Management, Mangalore | 2017 |
| Smart Aqua Meter   | Reva University, Bangalore                                | 2012 |

| NATIONAL CONFERENCES / FDP / Workshop   |   |      |
|---|---|------|
| Name of the Conference  | Organizer, Place                                | Year |
| 3 Days Online FDP on Android App Development for Embedded System Design                                       | Jain (Deemed-to-be University)                  | 2020 |
| 5 Days Online FDP on Opportunities and Challenges in Electronics and Allied Industries in INDIA Post Covid-19 | V E S Institute of Technology, Mumbai           | 2020 |
| Learn from Learner's Insight  | Jain (Deemed-to-be University)                  | 2020 |
| Jnana Chilume   | Jain (Deemed-to-be University)                  | 2019 |
| 5 Days FDP on Internet of Things  | Jain (Deemed-to-be University)                  | 2018 |
| 5 Days FDP on Outcome Based Education - 2 <sup>nd</sup> Model   | Jain (Deemed-to-be University)                  | 2017 |
| 5 Days FDP on Outcome Based Education - 1 <sup>st</sup> Model   | Jain (Deemed-to-be University)                  | 2016 |
| 3 Days FDP on Applied Electromagnetics and Communication  | Jain (Deemed-to-be University)                  | 2016 |
| 5 Days FDP on Sankalp - Teacher Sensitisation on Counselling  | Jain (Deemed-to-be University)                  | 2016 |
| 5 Days FDP on Advanced Topics in Computational Intelligence - Theory and Application                          | PES University                                  | 2016 |
| Workshop on Intellectual Property Rights - Signification for Academia in Business & Research                  | Jain (Deemed-to-be University)                  | 2015 |
| Workshop on VLSI Design Lab Using Open Source   | M S Engineering College, Bangalore              | 2013 |
| National Conference on Recent Trends in Engineering and Technology  | Birla Vishvakarma Mahavidyalaya, Gujarat, India | 2012 |

| AWARDS / HONORS / ACHIEVEMENTS |      |  |
|--------------------------------|------|--|
| Nature                         | Year | Awarding Institution   |
| Appreciation Award             | 2020 | Anveshana - Science & Engineering Fair and Agastya International in Association with Synopsys India Ltd. |
| Appreciation Award             | 2019 | Anveshana - Science & Engineering Fair and Agastya International in Association with Synopsys India Ltd. |
| Doctrate                       | 2018 | Jain (Deemed-to-be University)   |
| Appreciation Award             | 2018 | Anveshana - Science & Engineering Fair and Agastya International in Association with Synopsys India Ltd. |
| JU Award                       | 2018 | Jain (Deemed-to-be University)   |
| Young Achiever Award           | 2018 | Institute of Scholars (InSc)   |
| Appreciation Award             | 2017 | Anveshana - Science & Engineering Fair and Agastya International in Association with Synopsys India Ltd. |
| Appreciation Award             | 2016 | Anveshana - Science & Engineering Fair and Agastya International in Association with Synopsys India Ltd. |
| Project of the Year            | 2014 | Karnataka State Council for Science and Technology   |

| PATENTS  |      |   |
|--|------|---|
| Name of the Patent   | Year | Description   |
| A Novel Optimal Floorplanning Design Generation Architecture | 2020 | In the novel design for floor planning problem, the mathematical calculations for area estimator and wirelength estimator are done by simplified logic circuits and the power consumption and dissipations are estimated by measurement circuits. Patent No. - 201941053116 and Journal No. 10 / 2020 |

| BOOKS PUBLISHED / MONOGRAMS                         |      |  |
|---|------|--|
| Name  | Year | Description  |
| Advanced Processors and Real Time Operating Systems | 2019 | Harshwardhan Publication Pvt. Ltd., ISBN:978 - 93 - 89003 - 74 - 1 |

| PAST POSITIONS HELD BEFORE PRESENT ASSIGNMENT |             |                            |
|---|-------------|----------------------------|
| Designation                                   | From - To   | Institution / Organization |
| Internship                                    | 2011 - 2012 | Tata Elxsi Pvt. Ltd.       |

| POSITIONS HELD IN THE PRESENT ORGANIZATION |                           |   |
|--|---------------------------|---|
| Designation                                | From - To                 | Institution / Organization  |
| Assistant Professor                        | February 2012 - Till Date | Jain (Deemed-to-be University), Faculty of Engineering and Technology |

**RESEARCH PROJECTS**

| <b>Name of the Project</b>   | <b>Type of the Project (Sponsored / Consultancy / Government Funded)</b> | <b>Status of the Project (Ongoing / Completed)</b> |
|--|--|--|
| Vision Based Robotic Systems   | Sponsored by KSCST - 2019  | Completed  |
| Military Robot   | Sponsored by KSCST - 2018  | Completed  |
| Smart Vehicle for Deaf   | Sponsored by KSCST - 2018  | Completed  |
| LI - FI Based Patient Monitoring System  | Sponsored by KSCST - 2016  | Completed  |
| Design and Development of Multipurpose Smart Biogas Energizer for Generating Electricity | Sponsored by KSCST - 2015  | Completed  |
| Smart Water Meter  | Sponsored by KSCST - 2014  | Completed  |