


Faculty Profile a brief Writeup with Maximum 150-200 words

<h2>Faculty</h2>	<p>Dr. Komala C R Professor, Department of Computer Science and Engineering (IoT&CSBT) East Point College of Engineering & Technology</p>
	<p>Profile*</p> <p>Dr. Komala C R {Professor, Department of Computer Science and Engineering (IoT&CSBT), EPCET and R&D, EPGI}, received her PhD in the specialization area of Network, Communication and Information Systems from JAIN University, M. Tech in Computer Science and Engineering from VTU at RVCE, Bengaluru and B.E. from Mysore University, Sri Jayachamarajendra College of Engineering, Mysore, Karnataka, India. Her area of research includes Artificial Intelligence & Machine Learning, Data Science, Internet of Things, Network Communication and Information Systems, Network Security & Cryptography, Block Chain & Cyber Security and Vehicular Ad Hoc Networks. She is renowned for innovation and research, boasts over a publication of research articles at various SCI & Scopus Journals, National, International, IEEE Conferences, Textbooks, Book Chapters, Patents (publications & grants) and Indian Copyrights obtained. Received the awards for outstanding performances in the field of Research, Student Faculty Innovation and Faculty Innovation. Teaching is her passion and aspiring to play a greatest challenging role towards the student's development. She consistently demonstrates a positive and a forward-thinking approach within the academic institution and focuses on student learning abilities by motivating & encouraging students to perform well in academics and to develop them into ethical professionals.</p>
	<p>Publications</p> <p>Text Books and Book Chapters</p> <ol style="list-style-type: none"> 1) An international IGI Global book chapter titled "IoT-Driven Automation Systems for Hydroponic Agriculture" at Integrating Artificial Intelligence Into the Energy Sector by IGI Global publications, April 2025, DOI: 10.4018/979-8-3693-7112-1.ch017 2) An international IGI Global book chapter titled "Innovative System Using Artificial Intelligence and Robotics for Fire Disaster Management" at Navigating Usability and User Experience in a Multi-Platform World by IGI Global publications, Nov 2024, DOI: 10.4018/979-8-3693-2337-3.ch010 3) An international IGI Global book chapter titled "Fog and Cloud Computing Integration with Intelligent Surfaces and Recent Advances" at Multidisciplinary Applications of Extended Reality for Human Experience by IGI Global publications, Aug 2024, DOI: 10.4018/979-8-3693-2432-5.ch013, ISBN13: 9798369324325 4) An international IGI Global book chapter titled "Adversarial Challenges in Distributed AI: ML Safeguarding 6G Networks" at Security Issues and Solutions in 6G Communications and Beyond by IGI Global publications, July 2024, DOI: 10.4018/979-8-3693-2931-3.ch005 5) An international IGI Global book chapter titled "AI's Role in 6G Security Machine Learning Solutions Unveiled" at Security Issues and Solutions in 6G Communications and Beyond by IGI Global publications, July 2024, DOI: 10.4018/979-8-3693-2931-3.ch003

	<p>6) An international IGI Global book chapter titled “Fog Computing-Integrated ML-Based Framework and Solutions for Intelligent Systems: Digital Healthcare Applications” at Technological Advancements in Data Processing for Next Generation Intelligent Systems by IGI Global publications, March 2024, DOI: 10.4018/979-8-3693-0968-1, ISBN13: 9798369309681</p> <p>7) A text book titled “Internet and Web technology” by Scientific International Publishing House, Nov 2023, ISBN: 978-93-5757-587-4</p> <p>8) An international IGI Global book chapter titled “Machine Learning-Integrated IoT-Based Smart Home Energy Management System” at Handbook of Research on Deep Learning Techniques for Cloud-Based Industrial IoT by IGI Global publications, July 2023, DOI: 10.4018/978-1-6684-8098-4, ISBN13: 9781668480984</p> <p>9) A National book chapter titled “Experimental Investigation on Schema Based Peer-to -Peer data integration process” by Smart Computing Technologies/ESN Publications, Dec 2022, ISBN: 978-93-95196-43-7</p> <p>10) A text book titled “Vehicular Ad Hoc Networks” by Notion Press, 23rd Sept 2022, ISBN-13 : :979-8888154632</p> <p>11) A text book titled “Network Security and Cryptography” by Scientific International Publishing House, 24th Feb 2022, ISBN: 978-93-94002-26-5</p>
	<p>Journals</p> <p>1) The Q1 SCIE, WoS & Scopus indexed journal titled “IoT Integration With CMPA-PINN for Islanding Detection Through Microgrid Hierarchical Control” at International Journal of Communication Systems, WILEY Publications, 27th January 2025, DOI: 10.1002/dac.6087, 1-14, ISSN: 10991131</p> <p>2) The SCI, SCI Mago-Q4 & Scopus indexed journal titled “Decoding Infectious Disease Dynamics: A Stochastic Approach to Population Heterogeneity and Epidemic Outcomes” at Nanotechnology Perceptions, 22nd Oct 2024. Vol.20. No. 06, ISSN: 1660-6795</p> <p>3) The SCI Mago-Q4, Scopus & UGC Care indexed journal titled “ENHANCED ROUTING PROTOCOL IN MOBILE AD HOC NETWORK FOR IMPROVING THE PERFORMANCE” at Journal of Theoretical and Applied Information Technology, 31st July 2024. Vol.102. No. 14, ISSN: 1992-8645</p> <p>4) The Scopus indexed journal titled “Please Use a three-wire Watch a Novel Protocol Designed for Addressing Hidden and Exposed Layer Issues in the Medium Access Control Layer of Mobile Adhoc Network” at Journal of Communications (JOC), 12th June 2024, Vol. 19, No. 6, ISSN: 1796-2021, DOI: 10.12720/jcm.19.6.287-297</p> <p>5) The Scopus indexed journal titled “Novel Routing Protocol Reduce End to End Delay by Introducing the Delay Computation Table Mobile Adhoc Network” at SSRG International Journal of Electronics and Communication Engineering (IJECE), 31st May 2024, Volume 11 Issue 5, ISSN: 2348-8549, DOI: 10.14445/23488549/IJECE-V11I5P112</p> <p>6) The UGC Care Journal of titled "SAFETY ACCIDENTS IN RAILWAY STATIONS USING ML AND IOT", International Journal of Novel Research and Development (IJNRD), Volume 9, Issue 4 April 2024, ISSN-2456-4184</p> <p>7) The Scopus indexed journal titled “A Review of Power Management Approaches for Mobile Ad Hoc Networks” at International Information and Engineering Technology Association (IIETA), Journal Européen des Systèmes Automatisés (JESA), 29th February 2024, Vol.57. No 1, DOI: 10.18280/jesa.570114</p> <p>8) The SCI Mago-Q4, Scopus & UGC Care indexed journal titled “Novel Congestion Control Mechanism to Improve Performance of Mobile Ad hoc Network with Queue Model” at Journal of Theoretical and Applied Information Technology, 29th February 2024, Vol.102. No 4, ISSN: 1992-8645</p>

	<p>9) The Q2 ESCI, WoS & Scopus indexed journal titled “Innovative Cost Estimation for Agile Technology: A Novel Energy Storage Technique Incorporating Modified Planning Poker” at International Journal of Renewable Energy Research, 30th December 2023, DOI: 10.20508/ijrer.v13i4.14270.g8842, Vol.13, No.4</p> <p>10) The Q2 ESCI, WoS & Scopus indexed journal titled “Multi-UAV computing enabling efficient clustering-based IoT for energy reduction and data transmission” at Journal of Intelligent & Fuzzy Systems, 2nd July 2023, DOI: 10.3233/JIFS-231242, ISSN 1064-1246 – IOS Press.</p> <p>11) The UGC Care journal titled “OPTIMIZED ALGORITHMS FOR BCI APPLICATIONS” International Research Journal of Modernization in Engineering Technology and Science, May 2023 ISSN: 2582-5208</p> <p>12) The UGC Care Journal of titled "Implementation of multimedia generation using Deep Learning and Neural Network", Journal of Emerging Technologies and Innovative Research (JETIR), May 2023 ISSN-2349-5162</p> <p>13) The UGC Care Journal of titled "A COVID-19 PERSPECTIVE ON INDOOR AIR QUALITY BASED ON INTERNET OF THINGS", International Research Journal of Modernization in Engineering Technology and Science, May 2023 ISSN: 2582-5208</p> <p>14) The UGC Care Journal of titled "Optimized Algorithms For BCI Applications", International Journal of Research and Analytical Reviews (IJRAR), March 2023, ISSN 2349-5138</p> <p>15) The UGC Care Journal of titled "SENSING AND PREDICTIVE ANALYSIS OF INDOOR AIR QUALITY BASED ON INTERNET OF THINGS: A COVID-19 PERSPECTIVE", International Research Journal of Modernization in Engineering Technology and Science, February 2023 ISSN: 2582-5208</p> <p>16) The Q3 SCI, WoS & Scopus indexed journal titled “Autonomous Vehicle Traffic Recognition Based On Artificial Intelligence” at Journal of Pharmaceutical Negative Results, Volume 14, Regular Issue 02, DOI: 10.47750/pnr.2023.14.02.395, 9th February 2023</p> <p>17) The Q2 ESCI, WoS & Scopus indexed journal titled “Deep Learning for an Innovative Photo Energy Model to Estimate the Energy Distribution in Smart Apartments” at Hindawi, International Journal of Photo energy, Volume 2022, Article ID 1048378, 29th September 2022</p> <p>18) The Scopus indexed journal titled “Upper Respiratory Tract Infection Determination using the Distributed Lag Model” at SPECIALUSIS UGDYMAS, SPECIAL EDUCATION, Issue-1, 19th July 2022, ISSN: 1392-5369</p> <p>19) The UGC Care journal titled “Design of Multi Model Interface to Establish Communication Among Differently Abled People Using IOT” at JETIR, Volume-9, Issue-7, July 2022, ISSN: 2349-5162</p> <p>20) The UGC Care journal titled “MY-SR Next Generation Automated Gas Safety System Using IOT” at JETIR, Volume-9, Issue-6, June 2022, ISSN: 2349-5162</p> <p>21) The UGC Care journal titled “Design of Multi Model Interface to Establish Communication Among Differently Abled People Using IOT” at IJSRST, Volume-9, Issue-2, March 2022, ISSN: 2395-6011</p> <p>22) The UGC Care journal titled “A Review on MY-SR Next Generation Automated Gas Safety System Using IOT” at IJSRSET, Volume-9, Issue-2, March 2022, ISSN: 2395-1990</p> <p>23) The Scopus indexed journal titled “Perception of Covid-19 Contagion using Receptacle Fluoroscopy by applying Deep Learning Methodology” at JPSP, Volume-6, March 2022, ISSN: 2717-7564 (IF:4.20)</p> <p>24) The Scopus indexed journal titled “Pre indication of Stock Price Using Prolonged Petite-Stretch Memory (PPSM) Algorithm” at IJME, Volume-7, Issue-1, Jan 2022, ISSN: 0974-5823</p>
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	<p>25) The SCIE & Scopus indexed journal titled "Machine and Deep Learning Model for Industrial Iot Applications" at JJM, Volume-15, Issue-1, Jan 2022, ISSN: 2008-3645</p> <p>26) The Scopus Indexed journal titled "Routing Solutions of GJIBR for Unicasting and Multicasting over AODV in VANET" at International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-8, Issue-7, May 2019, ISSN: 2278-3075</p> <p>27) The Scopus indexed journal titled "Hybrid Geographical Junction based Routing in VANET with Fuzzy Optimization" at Journal of Advanced Research in Dynamical & Control Systems, Vol.10, 04-Special Issue, June 2018, ISSN:1943-023X</p> <p>28) The Scopus indexed journal titled "Performance Analysis of GJIBR and AODV Routing Protocols in Vehicular Ad Hoc Networks" at International Journal of Engineering and Technology (IJET) DOI: 10.21817/ijet/2017/v9i3/170903150, Vol 9 No 3 Jun-Jul 2017, ISSN (Print): 2319-8613 ISSN (Online): 0975-4024 (IF:3.5)</p> <p>29) The Scopus indexed journal titled "Geographical Junction Information Based Routing in Vehicular Ad Hoc Networks (VANETs)" at International Journal of Mobile & Ad hoc Network (IJMAN), Vol 5, Issue 2, May 2015, ISSN 2231:6825 ISSN 2249–202X. (IF:3.56)</p> <p>30) The Scopus indexed journal titled "Survey on Vehicular Ad hoc Routing Protocols" at International Journal for Research in Applied Science and Engineering Technology, Vol. 2, Issue IV, April 2014, ISSN: 2321-9653.</p>
	<p>Research Project/FDP Proposals</p> <p>1) The project titled "AI DRIVEN 3D MOTION CAPTURE AND HUMAN BODY DETECTION", Ref No. 48S_BE_3084, ISE Dept. EPCET, sanctioned under 48th Series of Student Project Programme by Karnataka State Council for Science and Technology (KSCST) on 14th March 2025.</p> <p>2) The FDP titled "Full Stack AI Web Development", Application No. 1716181636, Subject Area: Engineering & Management - Advanced Computing (Supercomputing, AI, Quantum Computing - Artificial Intelligence & Applications), Principal Investigator, EPCET, sanctioned by AICTE Training & Learning Academy (ATAL), on 12th July 2024 for the AY: 2024-25 and conducted between 20th to 25th Jan 2025 at East Point College of Engineering & Technology, Bangalore.</p> <p>3) The research project titled "Fog Computing - Integrated ML-Based Framework and Solutions for Intelligent System of Digital Healthcare Applications", Karnataka Fund for Infrastructure Strengthening in Science & Technology (K-FIST L1) Scheme, Application No. VRN/003018/23-24, Subject Area: Computer Science/Information Science Engineering/Information Technology, Principal Investigator, ISE Dept. EPCET, applied under GOVERNMENT OF KARNATAKA, VISION GROUP ON SCIENCE AND TECHNOLOGY on 17th June 2024.</p> <p>4) The project titled "MY-SR NEXT GEN AUTOMATED GAS SAFETY SYSTEM USING IOT", Ref No. 45S_BE_3506, ISE Dept. HKBKCE, sanctioned under 45th Series of Student Project Programme by Karnataka State Council for Science and Technology (KSCST) on 11th May 2022.</p> <p>5) The project titled "DETECTION OF COVID-19 USING CHESTS RADIOGRAPHS BY DEEP LEARNING METHODOLOGY", Ref No. 44S_BE_2892, ISE Dept. SVIT, sanctioned under 44th Series of Student Project Programme by Karnataka State Council for Science and Technology (KSCST) on 24th April 2021.</p> <p>6) The research project titled "WIRELESS SENSOR NETWORK ASSISTED HUMAN WILDLIFE CONFLICT MANAGEMENT NEAR FOREST AREAS", Karnataka Fund for Infrastructure Strengthening in Science & Technology (K-FIST L1) Scheme, Application No. VRN/001907/20-21, Subject Area: Computer</p>

	<p>Science/Information Science Engineering/Information Technology, Principal Investigator, ISE Dept. SVIT, applied under GOVERNMENT OF KARNATAKA, VISION GROUP ON SCIENCE AND TECHNOLOGY on 20th Feb 2021.</p>
	<p>Conferences</p>
	<ol style="list-style-type: none"> 1) The Scopus indexed international conference paper titled “AI algorithms for Autonomous Robotics Navigation” at 2024 Second International Conference Computational and Characterization Techniques in Engineering & Sciences (IC3TES), DOI: 10.1109/IC3TES62412.2024.10877509, 15th-16th November 2024, 17th February 2025, IEEE Xplore 2) The Scopus indexed international conference paper titled "Fair-Auto ML: Enhancing Fairness in Machine Learning Predictions Through Automated Machine Learning and Bias Mitigation Techniques” at 2nd International Interdisciplinary Scientific Conference on Green Energy, Environmental and Renewable Energy, Advanced Materials, and Sustainable Development (IISCGEEREAMSD), DOI: 10.1063/5.0235062, 11th Nov 2024, AIP Conference Proceedings 3) The Scopus indexed international conference paper titled “Metaheuristic-Optimized Clustering for Improving QoS in IoT-Enabled Wireless Sensor Networks” at 2024 International Conference on Expert Clouds and Applications (ICOECA), DOI: 10.1109/ICOECA62351.2024.00035, 18th-19th April 2024, 5th August 2024, IEEE Xplore 4) The Scopus indexed international conference paper titled “Advancing Brain-Computer Interaction: EEG-based Eye Movement Recognition with AI” at 2024 International Conference on Inventive Computation Technologies (ICICT), DOI:10.1109/ICICT60155.2024.10544675, 24th-26th April 2024, 7th June 2024, IEEE Xplore 5) The Scopus indexed international conference paper titled “Analysis and Optimization of Neural Networks for Image and Speech Recognition” at 2023 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICES), DOI:10.1109/ICES60034.2023.10465332, 14th-15th December 2023, 19th March 2024, IEEE Xplore 6) The Scopus indexed international conference paper titled “Secure Data Transmission for Communication Systems using IoT” at 2023 7th International Conference on Electronics, Communication and Aerospace Technology (ICECA), DOI: 10.1109/ICECA58529.2023.10395004, 22nd-24th November 2023, 09th February 2024, IEEE Xplore 7) The Scopus indexed international conference paper titled “Design and Development of the Optical Antenna for Wireless Communications” at 2023 7th International Conference on Electronics, Communication and Aerospace Technology (ICECA), DOI: 10.1109/ICECA58529.2023.10395356, 22nd-24th November 2023, 09th February 2024, IEEE Xplore 8) The Scopus indexed international conference paper titled “Performance Evaluation of VPNS over MPLSLinux Networks” at 2023 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), DOI: 10.1109/ACCAI58221.2023.10199558, 25th-26th May 2023, 04th Aug 2023, IEEE Xplore 9) The Scopus indexed international conference paper titled “Multimedia generation using neural network DeepDream” at 2023 International Conference on Advances in Electronics, Communication, Computing and Intelligent Information Systems (ICAECIS) DOI: 10.1109/ICAECIS58353.2023.10170138, 19th-21st April 2023, 07th July 2023, IEEE Xplore

	<p>10) The Scopus indexed international conference paper titled “A Remote Health Care Monitoring system using internet of medical things (IoMT)” at International Conference on Innovative Practices in Technology and Management (ICIPTM), DOI: 10.1109/ICIPTM57143.2023.10118103, 22nd-24th February 2023, 10th May 2023, IEEE Xplore</p> <p>11) The Scopus indexed international conference paper titled “Artificial Intelligence driven security model for Internet of Medical Things (IoMT)” at International Conference on Innovative Practices in Technology and Management (ICIPTM), DOI: 10.1109/ICIPTM57143.2023.10117713, 22nd-24th February 2023, 10th May 2023, IEEE Xplore</p> <p>12) The Scopus indexed international conference paper titled “An Enhancement of Service Function Chaining in Metro Mobile Ad-Hoc Networks in 5G Communication Using Machine Learning” at International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF), DOI: 10.1109/ICECONF57129.2023.10084334, 05th-07th January 2023, 03rd April 2023, IEEE Xplore</p> <p>13) The Scopus indexed international conference paper titled “Junction Based Angular Routing in Vehicular Ad Hoc Networks (VANET)” at 2021 2nd International Conference for Emerging Technology (INCET) DOI: 10.1109/INCET51464.2021.9456225, May-June 2021, IEEE Xplore</p> <p>14) Sketch4match-Content Based Image Retrieval System Using Sketches (NCCIP-2013) at TJIT, Bangalore.</p> <p>15) JINI Based System (NCETIT-2012) at DBIT, Bangalore.</p> <p>16) Near Field Communication (NCETIT-2012) at DBIT, Bangalore.</p> <p>17) Artificial Intelligence and Genetic Algorithm (NCETIT-2012) at DBIT, Bangalore.</p> <p>18) Routing Protocols in Vehicular Ad Hoc Networks (CCSO-2011) at AIT, Bangalore.</p> <p>19) Efficient Angular Routing in Vehicular Ad Hoc Networks (RTCT-2011) at RVCE, Bangalore.</p> <p>20) English Hand Written Character recognition using Fuzzy Logic (NCCN-2010) at DBIT, Bangalore.</p> <p>21) QOS Techniques in MANets (IP-2010) at AMC EC, Bangalore.</p> <p>22) Wireless Monitoring of Drug Effectiveness (IP-2010) at AMC EC, Bangalore.</p> <p>23) Distributed Dynamic Load Balancing (ETIC-2010) at GITM, Gurgaon.</p> <p>24) Real Time Image Compression Using Modified SPIHT Algorithms (CCT 2010) at RVCE, Bangalore.</p> <p>25) Wireless Ad hoc Mobile Network (CCT 2010) at RVCE, Bangalore.</p>
	<p>Patents</p> <p>1) The Indian Design Patent titled “INTERACTIVE WORKFLOW BUILDER DEVICE FOR DATA SCIENTIST”, Design No: 450255-001, Granted on 21st May 2025.</p> <p>2) The Indian Patent titled “AI-DRIVEN SYSTEM AND METHOD FOR SERVICE LEVEL AGREEMENT (SLA) MANAGEMENT IN CLOUD COMPUTING”, Patent No: 202541026603 A, Published on 11th April 2025.</p> <p>3) The Indian Patent titled “MY-SR NEXT GEN AUTOMATED GAS SAFETY SYSTEM USING IOT”, Patent No: 202441058500 A, Published on 9th Aug 2024.</p> <p>4) The Canadian Copyright titled “SMART HOME AUTOMATION SYSTEM WITH IOT INTEGRATION”, 1215338, granted on 13th July 2024.</p> <p>5) The Indian Patent titled “AUTONOMOUS VEHICLE TRAFFIC RECOGNITION BASED ON ARTIFICIAL INTELLIGENCE”, Patent No: 202441050901 A, Published on 12th July 2024.</p> <p>6) The UK Design Patent titled “AI BASED HUMANOID ROBOT FOR SURVEILLANCE AND SECURITY”, Design No: 6349593, Granted on 9th May 2024.</p> <p>7) The UK Design Patent titled “Wireless 5G Home Router”, Design No: 6351610, Granted on 15th March 2024.</p>

	<p>8) The Indian Design Patent titled “RADIO FREQUENCY POWER AMPLIFIER”, Design No: 397075-001, Granted on 19th January 2024.</p> <p>9) The Indian Design Patent titled “COMPACT ANESTHESIA MACHINE”, Design No: 400959-001, Granted on 18th January 2024.</p> <p>10) The Indian Patent titled “DESIGN OF A MULTI-MODEL INTERFACE TO ESTABLISH COMMUNICATION AMONG DIFFERENTLY ABLED PEOPLE”, Patent No: 202341048149 A, Published on 1st September 2023.</p> <p>11) The Indian Patent titled “SEGMENTATION AND VALIDATION OF LIVER TUMORS”, Patent No: 202341031743 A, Published on 16th June 2023.</p> <p>12) The Indian Patent titled “THE CHARACTERISTICS OF AN INNOVATIVE PROPAGATION APPROACH SIXTH-GENERATION (6G) MOBILE COMMUNICATION”, Patent No: 202341004412 A, Published on 17th February 2023.</p> <p>13) The Indian Patent titled “A ROUTING SYSTEM IN VEHICULAR AD HOC NETWORKS WITH GEOGRAPHICAL JUNCTION INFORMATION AND METHOD THEREOF”, Patent No: 202341007254 A, Published on 10th February 2023.</p> <p>14) The Indian Copyright titled “AUTOMATIC RAPID METHOD FOR DETECTION OF COVID19 DISEASE USING DEEP NEURAL NETWORK AND IMAGE PROCESSING”, L-120649/2023, granted on 18th January 2023.</p> <p>15) The Indian Patent titled “AN INTEGRATED CORONA VIRUS CONTAGION INTERACTIVE DEVICE BY APPLYING DEEP LEARNING DATA MODELLING AND METHOD THEREOF”, Patent No: 202241063727 A, Published on 8th November 2022.</p> <p>16) The Indian Patent titled “A WEARING ARTICLE FOR NAVIGATING VISUALLY IMPAIRED USING MACHINE LEARNING”, Patent No: 202241022469 A, Published on 6th May 2022.</p> <p>17) The Indian Patent titled “A SYSTEM AND METHOD FOR PREDICTION OF STOCK PRICES USING PROLONGED PETITE-STRETCH MEMORY (PPSM) ALGORITHM”, Patent No: 202241022539 A, Published on 29th April 2022.</p> <p>18) The Indian Patent titled “A SYSTEM FOR JUNCTION BASED ANGULAR ROUTING IN VEHICULAR AD HOC NETWORKS (VANET)”, Patent No: 202241020096 A, Published on 8th April 2022.</p> <p>19) The Indian Patent titled “A ROBOTIC TECHNOLOGY TO STUDY THE POSITIVE TRIATS OF SILVER PARTICLES”, Application No: 361542-001, Applied on 30th March 2022.</p> <p>20) The Indian Patent titled “IOT AND WIRELESS BASED INTELLIGENT EVEHICLE WITH SELF-POWER GENERATING OPTIMAL POWER MANAGEMENT”, Patent No: 202141048433 A, Published on 29th October 2021.</p> <p>21) The Indian Patent titled “CUSTOM DEVELOPED BOARD FOR IOT APPLICATIONS”, Ref No. 202141037963, and Published on 27th August 2021.</p> <p>22) The Australian Patent titled “A MODEL DRIVEN ENGINEERING FOR DESIGNING MULTI PARADIGM CYBER PHYSICAL SYSTEMS”, Patent No: 2021106573, Published on 10th November 2021 and granted for eight years from filing date 23rd August 2021.</p>
	<p>Achievements / Awards / Recognitions</p> <p>Awards</p> <p>1) Recognition for "Outstanding Research Contribution" to Integrating Artificial Intelligence into the Energy Sector by IGI Global Scientific Publications - 2025.</p> <p>2) Life Membership Award of the Innovative Research & Education Academy, Ministry of MSME, Govt. of India - Dec 2024.</p> <p>3) Best "Intellectual Property Rights (IPR) Holder" Award by Innovative Research & Education Academy, Ministry of MSME, Govt. of India - Dec 2024, AY:2024-25.</p>

	<ol style="list-style-type: none"> 4) Editorial Board Member of International Journal of Multidisciplinary Science and Technology - Nov 2024, AY: 2024-25. 5) Best Researcher Award for Outstanding Performance in the field of "Research" by Scientific International Publishing House - June 2024, registered under Ministry of SME, Govt. of India. 6) Award for Outstanding Performance in the field of "NBA-2023" at Rewards and Recognitions Quarter 4 - 2023, HKBKCE, Bangalore. 7) Award for Outstanding Performance in the field of "Student - Faculty Innovation" at Rewards and Recognitions Quarter 3 - 2023, HKBKCE, Bangalore. 8) Award for Outstanding Performance in the field of "Research" at Rewards and Recognitions Quarter 3 - 2023, HKBKCE, Bangalore. 9) Award for Outstanding Performance in the field of "Faculty Innovation" at Rewards and Recognitions Quarter 4 - 2022, HKBKCE, Bangalore. 10) Award for Outstanding Performance in the field of "Research" at Rewards and Recognitions Quarter 3 - 2022, HKBKCE, Bangalore. 11) Award for Outstanding Performance in the field of "Research" at Rewards and Recognitions Quarter 2 - 2022, HKBKCE, Bangalore. 12) Award for Outstanding Performance in the field of "Student - Faculty Innovation" at Rewards and Recognitions Quarter 1 - 2022, HKBKCE, Bangalore. 13) Award for Outstanding Performance in the field of "Research" at Rewards and Recognitions Quarter 4 - 2021, HKBKCE, Bangalore. <p>Achievements</p> <ol style="list-style-type: none"> 1) A MOOC Certification of Title "Complete Docker and Kubernetes + Hands on DevOps" is completed on 30th July 2023 at Udemy 2) A MOOC Certification of Title "Develops Tools Training: Learn, Git, Jenkins, Docker, Kubernetes" is completed on 28th July 2023 at Udemy 3) A MOOC Certification of Title "Artificial Intelligence A-ZTM - Learn How To Build An AI" is completed on 11th September 2021 at Udemy 4) Appreciation of Coordinator for the AICTE sanctioned ATAL-FDP on "Full Stack AI Web Development", Application No. 1716181636, Subject Area: Engineering & Management - Advanced Computing (Supercomputing, AI, Quantum Computing - Artificial Intelligence & Applications), Principal Investigator, EPCET, sanctioned by AICTE Training & Learning Academy (ATAL), AY: 2024-25 and conducted between 20th to 25th Jan 2025 at East Point College of Engineering & Technology, Bangalore. 5) Appreciation of Session Chair in the "Springer International Conference on Next-Gen Semiconductor Device and Smart Computing Applications [ICNGSDSCA-24]" held from 20th to 21st Dec 2024 organized by Cambridge Institute of Technology, K R Puram, Bengaluru. 6) Appreciation of Paper Reviewer in the "Springer International Conference on Next-Gen Semiconductor Device and Smart Computing Applications [ICNGSDSCA-24]" held from 20th to 21st Dec 2024 organized by Cambridge Institute of Technology, K R Puram, Bengaluru. 7) Appreciation of Paper Reviewer in the "IEEE International Conference on Integrated Intelligence and Communication Systems (ICIICS-2024)" held from 22nd to 23rd Nov 2024 organized by Sharnbasva University, Kalaburagi. 8) Appreciation of Paper Reviewer in the "IEEE International Conference on Software, Systems and Information Technology (SSITCON-2024)" held from 18th to 19th Oct 2024 organized by Sri Siddhartha Institute of Technology, Tumakuru. 9) Appreciation of Paper Reviewer in the "IEEE International Conference on Distributed Systems, Computer Networks and Cybersecurity (ICDSCNC-2024)"
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	<p>held from 20th to 21st Sept 2024 organized by Sri Krishna Institute of Technology, Bangalore.</p> <p>10) Appreciation of Paper Reviewer in the "IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON)" held from 9th to 10th August 2024 organized by Nitte Meenakshi Institute of Technology, Bengaluru.</p> <p>11) Appreciation of Resource Person for the five day SDP on “Universal Human Values” organized between 27th to 31st May 2024 by department of Information Science and Engineering at East Point College of Engineering & Technology, Bangalore.</p> <p>12) Appreciation of Paper Reviewer in the "IEEE International Conference on Data Science and Information System (ICDSIS - 2024)" held from 17th to 18th May 2024 organized by Malnad College of Engineering, Hassan.</p> <p>13) Appreciation of Paper Reviewer in the "IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE - 2024)" held from 26th to 27th April 2024 organized by Ballari Institute of Technology and Management, Ballari.</p> <p>14) Appreciation of Paper Reviewer in the "IEEE International Conference on Distributed Computing and Optimization Techniques (ICDCOT - 2024)" held from 15th to 16th March 2024 organized by SJB Institute of Technology, Bengaluru.</p> <p>15) Appreciation of Paper Reviewer in the "IEEE International Conference on Integrated Circuits and Communication Systems (ICICACS - 2024)" held from 23rd to 24th February 2024 organized by Sir M Visvesvaraya College of Engineering, Raichur.</p> <p>16) Appreciation of Paper Reviewer in the "IEEE International Conference on Mobile Networks and Wireless Communications (ICMNWC - 2023)" held from 4th to 5th December 2023 organized by Sri Siddhartha Institute of Technology, Tumakuru.</p> <p>17) Appreciation of Paper Reviewer in the "IEEE International Conference on Evolutionary Algorithms and Soft Computing Techniques (EASCT - 2023)" held from 20th to 21st October 2023 organized by RV Institute of Technology and Management, Bangalore.</p> <p>18) Appreciation of Paper Reviewer in the "AICTE sponsored IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON)" held from 1st to 2nd September 2023 organized by Nitte Meenakshi Institute of Technology, Bangalore.</p> <p>19) Appreciation of Paper Reviewer in the "First IEEE International Conference on Data Science and Network Security (ICDSNS - 2023)" held from 28th to 29th July 2023 organized by Kalpataru Institute of Technology, Tipture.</p> <p>20) Appreciation of Paper Reviewer in the "Fourth IEEE International Conference" held from 23rd to 24th December 2022 organized by JSS Academy of Technical Education, Bangalore.</p> <p>21) Eleven day-forty hours Faculty Development Programme (FDP) on “Next-generation Networks and its Security”, held from 05th to 15th Feb 2025 sponsored by Ministry of Electronics and information Technology (MeitY), Govt. of India, organized by E&ICT Academy NIT Warangal, Telangana in association with Cambridge Institute of Technology, Bengaluru.</p> <p>22) Five day International Faculty Development Programme (IFDP) on “Gen-AI and Prompt Engineering Using Microsoft Co-Pilot”, held from 16th to 20th Sept 2024 organized by BNM Institute of Technology Bangalore (BNMIT) – Karnataka, D.Y. Patil Agriculture and Technical University Talsande – Maharashtra and Marwadi University Rajkot - Gujarat in Collaboration with ExcelR.</p>
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	<p>23) Eight day International Faculty Development Programme (IFDP) on “Machine Learning and Artificial Intelligence”, held from 12th to 19th Aug 2024 organized by Pimpri Chinchwad College of Engineering and Research, Ravet, Pune – Maharashtra, Sri Venkateswara Degree College, Kadapa - Andhra Pradesh, SJB Institute of Technology, Bangalore – Karnataka and Sri Indu PG College, Hyderabad – Telangana in Collaboration with ExcelR.</p> <p>24) Five day Faculty Development Programme (FDP) on “AI And Gen AI with Industry Application”, held from 16th July to 22nd July 2024 organized by Matrusri Engineering College Autonomous-Telangana in Collaboration with ExcelR.</p> <p>25) One day Faculty enablement programme on “Stress Management and Emotions”, held on 27th Jan 2024 organized by HKBK College of Engineering, Bangalore.</p> <p>26) Twenty day Faculty Development Programme (FDP) on “Cyber Security”, held from 25th September to 14th October 2023 organized by Chaitanya Bharathi Institute of Technology (CBIT) in Collaboration with ExcelR Edtech Pvt. Ltd.</p> <p>27) Five day Faculty Development Programme (FDP) on “Angular JS and Node JS”, held from 25th to 29th September 2023 organized by department of Computer Science and Engineering in association with ISTE Chapter at HKBK College of Engineering, Bangalore.</p> <p>28) Nine day training programme on “ChatGPT and Generative AI”, held from 11th to 19th Sep 2023 organized by ExcelR.</p> <p>29) Six day Faculty Development Programme (FDP) on “NLP and ChatGPT APPLICATIONS”, held from 14th Aug to 19th Aug 2023 organized by SECAB Institute of Engineering & Technology in Collaboration with ExcelR.</p> <p>30) Nineteen day Faculty Development Programme (FDP) on “Deep Learning for NLP and Computer Vision”, held from 10th July to 28th July 2023 organized by Chaitanya Bharathi Institute of Technology (CBIT) in Collaboration with ExcelR.</p> <p>31) Nineteen day training programme on “ChatGPT and Artificial Intelligence”, held from 8th to 26th May 2023 ExcelR.</p> <p>32) Twenty three day training programme on “Fundamentals of Full Stack Development”, held from 03rd to 25th April 2023 organized by ExcelR.</p> <p>33) Five day Faculty Development Programme (FDP) on “Data Analytics using Power BI”, held from 20th to 24th March 2023 organized by G Narayanamma Institute of Technology and Science (for women) in Collaboration with ExcelR.</p> <p>34) Two day Faculty Development Programme (FDP) on “Patentability Criteria and Filing Process in National and International Applications”, held from 29th Aug 2022 to 30th Aug 2022 organized by IPRC and IQAC, HKBK College of Engineering, Bangalore.</p> <p>35) Five day Faculty Development Programme (FDP) on “Academic Writing for Research”, held from 28th April to 02nd May 2022 organized by department of ISE, HKBK College of Engineering, Bangalore.</p> <p>36) Five day Faculty Development Programme (FDP) on “Android Application Development using KOTLIN”, held from 18th to 22nd April 2022 organized by department of ISE and CSE, HKBK College of Engineering, Bangalore.</p> <p>37) One day webinar on the theme “Women Scientists”, conducted on 9th March 2022 organized by KSCST, Indian Institute of Science, Bangalore.</p> <p>38) Five day Faculty Development Programme (FDP) on “Applications of Machine learning in Healthcare Technology, held from 22nd to 26th February 2022 organized by Narayana Engineering College, Nellore.</p> <p>39) Five day workshop on Universal Human Value Refresher1 Part1, held from 30th August to 3rd September 2021 organized by AICTE.</p>
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- 40) Six day STTP on the theme "Cyber Security and Block Chain", held from 22nd to 23rd March and from 23rd to 26th August 2021 organized at Cambridge Institute of Technology, Bangalore and sponsored by AICTE.
- 41) National level five day Faculty Development Programme (FDP) on "Emerging Trends in Data Analytics", from 10th to 14th May 2021, BMS Institute of Technology and Management, Bangalore.
- 42) One day webinar on the theme "Trend in SAP", conducted on 3rd November 2020 organized by SVIT, Bangalore.
- 43) One day Faculty Development Programme (FDP) on the theme "Virtual Labs" held on 22nd October 2020 organized by VTU Belagavi.
- 44) One day webinar on the theme "Importance and need of Universal Human Values in Higher Education Systems", conducted on 21st October 2020 organized by SVIT, Bangalore.
- 45) One day webinar on the theme "Robotic Process Automation", conducted on 15th October 2020 organized by SVIT, Bangalore.
- 46) Five day workshop on Universal Human Value on the theme "Inculcating Universal Values in Technical Education", held from 5th to 9th September 2020 organized by AICTE.
- 47) Three day workshop on "Simulation of Wireless Networks using NS-2" held from 23rd to 25th January, 2014 at REVA Institute of Technology & Management.
- 48) One-week TEQIP-II Faculty Development Programme (FDP) on "Storage Area Networks", from 29th July to 2nd August 2013, BMS College of Engineering, Bangalore.
- 49) Five days Faculty Development Programme (FDP) on "Information Storage & Management", from 16th to 20th Jan 2012, M.S. Ramaiah Institute of Technology, Bangalore.
- 50) One week Faculty Training Programme on "Power Electronics" from 23rd Feb to 28th Feb 2004, NMAMIT, Nitte.

Recognitions

Organizing Chair/Convener of Workshops/Webinars/FDP/SDP:

- 1) Six day FDP of the Title "Next-Gen Cybersecurity: Block Chain - Integrated Protection for IoT Networks" organized between 10th to 15th Feb 2025 by department of Computer Science and Engineering (IoT & CSBT) at East Point College of Engineering & Technology, Bangalore
- 2) AICTE sanctioned Six Day ATAL FDP for the Title "Full Stack AI Web Development" conducted from 20th to 25th Jan 2025 at East Point College of Engineering & Technology, Bangalore.
- 3) Five day SDP of the Title "AI Powered Analytics" organized between 26th to 30th Aug 2024 by department of Information Science and Engineering at East Point College of Engineering & Technology, Bangalore.
- 4) Five day SDP of the Title "IoT and Real Time Applications" organized between 24th to 28th June 2024 by department of Information Science and Engineering at East Point College of Engineering & Technology, Bangalore.
- 5) Five day SDP of the Title "Universal Human Values" organized between 27th to 31st May 2024 by department of Information Science and Engineering at East Point College of Engineering & Technology, Bangalore.
- 6) A National Level Five day SDP of the Title "Universal Human Values" organized between 3rd to 7th October 2023 by department of Information Science and Engineering in association with ISTE Chapter at HKBK College of Engineering, Bangalore.
- 7) A National Level Five day FDP of the Title "Universal Human Values" organized between 11th to 15th September 2023 by department of Information Science

	<p>and Engineering in association with ISTE Chapter at HKBK College of Engineering, Bangalore.</p> <p>8) Two day FDP of the Title "Patentability Criteria and Filing Process in National and International Applications", organized from 29th to 30th Aug 2022 at HKBK College of Engineering, Bangalore.</p> <p>9) Intellectual Property Awareness Program (FDP & SDP) of the Title "National Intellectual Property Awareness Mission" organized on 29th July 2022 at HKBK College of Engineering, Bangalore.</p> <p>10) Five day FDP of the Title "Academic Writing for Research", organized from 28th April to 02nd May 2022 at HKBK College of Engineering, Bangalore.</p> <p>11) Intellectual Property Rights "Quiz" organized on 26th April 2022 at HKBK College of Engineering, Bangalore.</p> <p>12) Five day FDP & SDP of the Title "Android Application Development using KOTLIN" organized from 18th to 22nd April 2022 at HKBK College of Engineering, Bangalore.</p> <p>13) Webinar of the Title "Trends in SAP" organized on 22nd January 2022 in the department of ISE at HKBKCE, Bangalore.</p>