# Mr. KRISHNA BANAVATHU

B.Tech., M.Tech.
*Assistant Professor*

**Department:** Electronics and Communication Engineering
University College of Engineering
Adikavi Nannaya University
Rajamahendravaram.

**Date of Joining:** 02nd July 2018.

**E-mail:** charishma807@gmail.com
krishna.ece@aknu.edu.in

**Mobile No:** +91 8309588930.

**Subjects Taught**: Electronic Devices and Circuits**,** Signals and Systems**,** Switching Theory & Logic Design**,** Pulse and Digital Circuits**,** Digital IC Application**,** Linear IC Applications**,** Linear Digital and Integrated Circuits**,** VLSI Design**,** Microprocessors and Micro Controller**,** Radar Engineering**,** Satellite Communications**,** Embedded Systems**,** Embedded and Real Time Operating systems.

**Area of Research:** Image Processing, VLSI Design, Communication Technology.

**Teaching Experience:** 12yrs.

**Publications (Research papers cum Book Chapters in books):**

| S.No | Paper Title | Authors | Year of Publication | Journal Name | Vol. No & Issue No | Pages | Impact factor |
|------|-------------|---------|---------------------|--------------|--------------------|-------|---------------|
| 01 | Standard basic Code Based encoding/Decoding with AND Operationfor Network on Chip Communication | Mr. Krishna Banavathu | July-2020 | Journal of Engineering Sciences (UGC Care Approved Group-II) | Vol:11 & issue:07 | 394-398 | 6.54 |
| 02 | A Robust Algorithmfor Audio Watermarking | Mr. Krishna Banavathu | Jan-2020 | Journal of Engineering Sciences (UGC Care Approved Group-II) | Vol:11 & issue:01 | 587-592 | 6.54 |
| 03 | A High Speed Low Power DDR3SDRAM Design for Communication Protocols | Mr. Krishna Banavathu | Jan-2014 | International journals of Industrial Electricals Electronics Control Robotics | Vol.03, Issue:03 | 1228-1236 | 6.0 |
| 04 | A Novel Approach for Lossless Compression and Decompression using Dictionary based Techniques | Mr. Krishna Banavathu | Jan-2014 | International journals of Industrial Electricals Electronics Control Robotics | Vol.03, Issue:03 | 1222-1227 | 6.0 |

| 05 | High Speed and Low Power Design of Parallel Prefix Adder | Mr. Krishna Banavathu | Dec-2012 | International Journal of Electronics & Communication Technology | Vol. 3, Issue 4 | 472-475 | 6.7 |
|---|---|---|---|---|---|---|---|

**Webinar / Seminar /FDPs Organized: 03**

Role                  :  C o - Convener
Participants       :  All over India

**Webinar / FDPs attended:**

**A) FDP/FIP/WORKSHOPS/COURSESs Attended:**

**i) FDPs from Reputed Institutions:**

| S.No | Title | Organized By | Duration |
|---|---|---|---|
| 01 | Creation of Google Sites and OER | RBVRR Women's College (Autonomous), Narayanaguda, Hyderabad, Telangana-500027. | 26-05-2020 |
| 02 | Challenges And Strategies of Teaching In Post Covid-19 | Adikavi Nannaya University, In Association with Young Researchers Forum (Yrf) Mumbai, Maharastra | 11-05-2020 to 15-05-2020 |
| 03 | R Programming &Python Django | Universal College of Engineering &Technology, Guntur & Spoken tutorial IIT Bombay | 26-05-2020 to 30-05-2020 |
| 04 | Faculty Awareness Program on NAAC Accreditation | Shri Chhatrapati Shivajiraje College of Engineering,pune Maharastra | 10-05-2020 to 15-05-2020 |
| 05 | Enahancing Digital Proficiency: A Platform for refinig the Research and Teaching Skills | Adikavi Nannaya University, Rajamahendravaram, AP | 12-08-2020 to 16-08-2020 |
| 06 | Recents Advances in Antennas and Applications(RAAA) | Koneru Lakshmaiah Education Foundation, Vaddeswaram, Guntur , AP-522502 | 14-07-2020 to 18-07-2020 |

**ii) AICTE & IETE Sponsored Short Term Training Programs (STTP):**

| S. No | Title | Organized By | Duration |
|---|---|---|---|
| 01 | VLSI Design, Verification and Testing | All India Council For Technical Education, Government Engineering College, Rajkot | 07-06-2021 to 11-06-2021 |
| 02 | Machine Learning Techniques In VLSI Design | All India Council For Technical Education, MS Ramaiah Institute Of Technology. | 26-07-2021 to 30-07-2021 |
| 03 | Advanced VLSI Design Using Microwind | Dr. Rajendra Gode Institute of Technology &Research, Amaravathi, Maharastra-AICTE-ISTE. | 20-05-2021 to 26-05-2021 |
| 04 | Recent trends in Embedded systems | Kavikulguru Institute of Technology and Sciences, Ramtek, Maharastra, AICTE-ISTE | 18-03-2021 to 24-03-2021 |

### iii) National and International FDPs:

| S. No | Title | Organized By | Duration |
|---|---|---|---|
| 01 | Advanced Electromagnetic and Applications | Sri Sivasubramaniya Nadar College of Engineering (An Autonomous Institution, Affiliated to Anna University, Chennai) Rajiv Gandhi Salai, Kalavakkam, Chennai 603 110 | 24-05-2021 to 28-05-2021 |
| 02 | Machine learning for Signal Processing and VLSI | Anurag University, HYD,Telangana-500088 | 05-06-2020 to 08-06-2020 |
| 03 | Research Trends In Signal Processing, Antennae,Vlsi& Iot | Sri Vasavi Engineering College(Autonomous ) Tadepalligudem | 28-05-2020 To 30-05-2020 |
| 04 | Technologies For Healthcare | Gmr Institute Of Technology, Rajam,Ap | 08-06-2020 To 10-06-2020 |
| 05 | Trends In Electronics & Communication Engineering | Sri Vasavi Engineering College,Tadepalli Gudem | 22-06-2020 To 26-06-2020 |
| 06 | Digital Ic Design With DFT Concepts Using Mentor Graphics Tools | Mahaveer Institute Of Science & Technology, Jntu,Hyderabad | 29-06-2020 To 01-07-2020 |
| 07 | Machine Learning With Deployment | Sri Vasavi Engineering College, Tadepalligudem & Skill To Hire | 03-07-2020 To 05-07-2020 |
| 08 | Emerging Trend in AIML | Alimuri Ratnamala Institute of Engineering and Technology | 17-05-2021 to20-05-2021 |
| 09 | Image Processing And Computer Vision-Industrial Scope | Malineni Lakshmaiah Women's Engineering College, Guntur | 08-07-2020 To 12-07-2020 |
| 10 | Research Trendsin Image Processing | Gates Institue Of Technology, Ananthapur | 15-07-2020 To 19-07-2020 |
| 11 | Introduction to Renewable Energy Sources | KKR & KSR Institute of Technology & Sciences Vinjanampadu, Vatticherukuru Mandal, Guntur, Andhra Pradesh 522017 | 20-06-2020 to 24-06-2020 |

### iv) AP State Skill Development Corporation conducted FIPs Attended & Completed:

| S. No | Title | Organized By | Duration |
|---|---|---|---|
| 1 | Micro Soft Power BI | AP Skill Development Corporation | 15-06-2020 to 19-06-2020 |
| 2 | Python Programming | AP Skill Development Corporation | 13-05-2020 to 25-05-2020 |
| 3 | Embedded Systems | AP Skill Development Corporation | 15-06-2020 to 27-06-2020 |
| 4 | AI and Deep learning | AP Skill Development Corporation | 01-07-2020 to 28-07-2020 |
| 5 | Internet of Things | AP Skill Development Corporation | 13-07-2020 to 25-07-2020 |

### v) Online Courses Completed:

| S. No | Title | Organized By | Offered By | Duration |
|---|---|---|---|---|
| 1 | CMOS Digital VLSI Design | NPTEL | IIT Roorkee | 8 weeks |

## vi) Workshops Attended:

| S. No | Title | Organized By | Duration |
|-------|-------|--------------|----------|
| 01 | Work Shop on Communication, VLSI, Image Processing and Design of Antennas | University College of Engineering, JNTUK, Kakinada. | 03-09-2020 to 04-09-2020 |
| 02 | Teaching & Learning Of Software Applications On Mobile platform | VSM College of Engineering, RamachandraPuram , AP | 08-06-2020 to 09-06-2020 |
| 03 | "IoT based Networking, Data Analytics and Machine Learning | Chennai in collaboration with Humanitarian Technology ( HuT ) Labs and IEEE | 01-02-2021 to 05-02-2021 |
| 04 | Soft Computing and Signal Processing Application to Engineering | SASI Institute of Technology Tadepalligudem | June 2011 |

## B) Webinars Attended:

## i) APSSDC Webinars Attended:

| S. No | Title | Organized By | Duration |
|-------|-------|--------------|----------|
| 01 | Antennas | AP SKILL DEVELOPMENT CORPORATION | 12-07-2020 |
| 02 | Build a Bright Career with AI&ML | AP SKILL DEVELOPMENT CORPORATION | 13-07-2020 |
| 03 | Employability Skills and sustainability | AP SKILL DEVELOPMENT CORPORATION | 14-07-2020 |
| 04 | Digital Image Processing | AP SKILL DEVELOPMENT CORPORATION | 20-07-2020 |
| 05 | Optical Communication | AP SKILL DEVELOPMENT CORPORATION | 25-07-2020 |
| 06 | Design and Development of SDR | AP SKILL DEVELOPMENT CORPORATION | 01-08-2020 |
| 07 | Verilog HDL Based VLSI Design | AP SKILL DEVELOPMENT CORPORATION | 10-08-2020 |
| 08 | Re-Frame of Failures | AP SKILL DEVELOPMENT CORPORATION | 15-08-2020 |

## ii)National & International Webinars Attended:

| S. No | Title | Organized By | Duration |
|-------|-------|--------------|----------|
| 01 | Criptography &Current Trends in security for pervasive Applications | ADIKAVI NANNAYA UNIVERSITY,RJY, AP | 05-06-2020 |
| 02 | Bussiness Intelegence as a Service (BIAAS)-Key Enabler in Driving Digital Transformation | ADIKAVI NANNAYA UNIVERSITY,RJY, AP By NSS Cell | 10-06-2021 |
| 03 | Role of Dr.B.R.AMBEDKAR and His Vision towards Women Empowerment and Education | Dr. Ambedkar Institute of Technology,Dr. Ram Manohar Lohia Avadh University, Ayodhya, UP | 12-06-2021 |
| 04 | MEMS Based Sensors for Chemical & Biochemical Sensing Applications | SRI VASAVI ENGINEERING COLLEGE | 15-06-2020 |
| 05 | Role of Atmanirbhar Bharat Abhiyan in Indian Economy during Post Covid-19 Scenario | ADIKAVI NANNAYA UNIVERSITY,RJY, AP | 16-06-2020 |
| 06 | Launching a Nanosatellite | GMR Institute of Technology, Rajam | 18-06-2020 |
| 07 | International Virtual Colloquium on Environmental Humanities | Adikavi Nannaya University | 20-06-2020 |
| 08 | WIRELESS SENSOR | FRANCIS XAVIER ENGINEERING COLLEGE,Tirunelveli | 29-06-2020 |

| 09 | Recent trends in fiber optics and photonic integrated circuits with its applications | SRM TRP Engg college,Tiruchirapalli | 03-07-2020 |
|----|----|----|----|
| 10 | Image Processing Based Methods for Diagnosis of Covid-19 | ADIKAVI NANNAYA UNIVERSITY,RJY, AP | 07-07-2020 |
| 11 | Aware ness On Cyber Crime and Cyber Security | ADIKAVI NANNAYA UNIVERSITY,RJY, AP | 09-07-2021 |
| 12 | Evolution of Modern Power Systems and it's challenges | St.Mother Theresa Engineering College,Vagaikulam ,Tuticorin | 15-07-2020 |
| 13 | Impact of Covid-19 on the development of Rural Economy- Challenges and opportunities | JNTUA, Ananthapur, AP | 27-07-2020 |
| 14 | One Platform to Discover all Scholarly E-Journal Literature | ADIKAVI NANNAYA UNIVERSITY,RJY, AP | 28-07-2020 |
| 15 | Demonstration of Online Educational Tools | Adikavi Nannaya University | 3,4-08-2020 |
| 16 | Federal Governance in India: Contemaporary (covid-19) Dimensions and Dynamics | ADIKAVI NANNAYA UNIVERSITY,RJY, AP | 20-08-2020 |
| 17 | Managing Career, Stress and Anxiety during &after COVID-19 | ADIKAVI NANNAYA UNIVERSITY,RJY, AP | 03-09-2020 |
| 18 | Transients in Power System | FRANCIS XAVIER ENGINEERING COLLEGE,Tirunelveli | 07-01-2020 |
| 19 | Technology of Sustainability: Potential of technology in shaping the world | Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh, India | 07-02-2020 |
| 20 | Latest Trends in Artifical Intelligence and Optimizatio | Lenora College of Engineering,Rampachodavaram | 12-05-2020 |
| 21 | Impact of Covid-19 on global Economy | IRA, jaipur | 15-05-2020 |
| 22 | Pharmaceutical scenerio Covid-19ERA | Adikavi Nannaya University | 16-05-2020 |
| 23 | Future of AI | IETE-MUMBAI | 20-05-2020 |
| 24 | Role of Electronics and Analytical Instrumentation | Adikavi Nannaya University | 30-05-2020 |

**Any other relevant work:**

- Dean - Academic Coordinator /Associate.
- IAENG Member (ID No.256237)
- Department NAAC Coordinator.
- ISO related work in the Department.
- Syllabus related work in the Department.
- Co-Convener for ADVIKA -2021 (National level Tech Fest).

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