

# Curriculum Vitae

## **KRISHNA GOPAL KRAR**

### **Office:**

Department of Electronics & Instrumentation  
Samrat Ashok Technological Institute  
Vidisha (M.P.) – 464001, India.

E-mail [kg.kirar@gmail.com](mailto:kg.kirar@gmail.com)

Cell: 9827598226

### **Home:**

Galla Mandi Road  
Vidisha (M.P.) - 464001

### **Current Position:**

Asistant Professor since Aug 2005

Department of Electronics & Instrumentation Engineering  
Samrat Ashok Technological Institute, Vidisha.

### **Research Interests:**

Digital Signal and Image Processing, Digital communication, Microprocessors & Micro controller based embedded system.

### **Academic Qualification:**

**Maulana Azad NIT Bhopal, India.**

**M.Tech, *Digital communication*, with 8.32 CGPA**

**Dissertation: “A Novel Image Filter for Removal of Impulse Noise from Images”**

**Advisor: Dr. Madhu Shandilya.**

**Rajiv Gandhi University, Bhopal, India.**

**B.E., *Electronics & Instrumentation Engineering*,  
Samrat Ashok Technological Institute, Vidisha, India.**

### **Other qualification:**

**Post Graduate Diploma in Embedded system design from DOEACC center Calicut  
(formerly known CEDTI).**

### **Administrative Experiences:**

- Course Coordinator of EI Program (Jan 2020-)
- Asst. Deputy Exam Controller (March 2016-Dec 2017)
- NBA Coordinator of the department
- TEQIP Coordinator of the department
- NSS Coordinator, NSS UNIT
- Faculty Co-advisor ISTE Chapter
- Core Member, Startup Cell
- Member of the Syllabus BoS of RGPV Bhopal.

### **Research publication:**

#### **International journal**

1. Nandini kokate, Krishna Gopal, M L Jatav, "**High Compression Ratio for Color Image using Compressive Sensing Technique**", International Journal of Emerging Technologies

- and Innovative Research (www.jetir.org | UGC and issn Approved), ISSN:2349-5162, Vol.8, Issue 2, page no. pp1556-1562, February-2021
- Nidhi Soni, K G Kirar, "Image De-noising Using Empirical Wavelet Transform", IJTAE, (ISSN 2250-2459), Vol-8, Issue-2, Feb 20, 2018.
  - Abhipriya Singh, K G Kirar, "Image Compression Using Empirical Wavelet Transform", IJTAE, (ISSN 2250-2459), Vol-7, Issue-12, Dec 2017.
  - K G Kirar, Dr. S. K Dhakad, Akshat Sahu, "Arduino based Automatic Irrigation System", Journal of Energy Research and Environmental Technology(ISSN 2394-1561), Vol-3, Issue-04, Oct-Dec 2016
  - Deepak Baghel, K G Kirar, "Comparative Study of Tumor Detection Techniques with their Suitability for Brain MRI Images", IJCA, (ISSN-0975-8887), Vol-127, No-13, oct-2015.
  - Gaurav Sharma, K G Kirar, "A Novel Image Compression Algorithm using modified Filter Bank", IJCET, Vol-5, No-5, Oct-2015.
  - Neha Tripathi, K G Kirar, "Image Resolution Enhancement by Wavelet Transform Based Interpolation and Image fusion", IJARCSSE, Vol-4, Issue-8, August 2014
  - P Shrivastava, K. G Kirar, "Detection of tumor in Mammograms Using Canny Edge Detection Technique", IJETT vol-14, No-5, Aug 2014

### International Conference:

- Abhipriya Singh, K G Kirar, "Review of Image Compression Techniques", International Conference on Recent Innovation in Signal Processing and Embedded System, 27-29 Oct 2017, MANIT, Bhopal, India.
- Nidhi Soni, K G Kirar, "Transformed Based De-noising: A Review ", International Conference on "Recent Innovation in Signal Processing and Embedded System"(RISE-17), 27-29 Oct 2017, organized at MANIT, Bhopal, India.
- K G Kirar, Dr S K Dhakad, Akshat Sahu, "Arduino based Automatic Irrigation System", International Conference on Innovative Research in "Mechanical, Material, Industrial, Automative, Aeronautical and Nano-technology"(MIANT'16), 18 Dec. 2016 organized by Krishi Sanskriti at JNU, New Delhi, India.

### National Conference

- K G Kirar,** "Analysis of Seizure and Non Seizure EEG Signals Using Empirical Wavelet Transform", 44<sup>th</sup> Indian Social Science Congress March 15-19, 2021 held at SATI Vidisha.
- Rishabh Raikwar, K G Kirar, "Time travel the ways to travel in time", National conference on "Innovative Research in Engineering & Science"(IRES), 16 feb. 2017 Organized by Mechanical Engineering Deptt., SATI, Vidisha, India.
- K G Kirar, "Analysis of Existing GSM Services in India over 3G Technologies",* Proceedings of IETE sponsored National Conference on AWWC held at BU, Bhopal.

### STC/ FDP/SDP / Workshop Attended

S. No	Particulars	Place	Duration	Sponsoring Agency
<b>One week / two week / four week STC/ FDP/SDP Programme</b>				
1.	SDP on "Wireless & Mobile Networks"	SATI Vidisha	03 <sup>rd</sup> -14 <sup>th</sup> July 2006	AICTE
2.	SDP on "Current Trends in Signal Processing"	SATI Vidisha	16 <sup>th</sup> -28 <sup>th</sup> September 2011	AICTE
3.	Summer Faculty Research Fellow Programme-2012	IIT Delhi	17/05/2012 - 13/07/2012	QIP/CEP
4.	Course on "Medical Signals and Image Processing"	IIT Roorkee	15 <sup>th</sup> -19 <sup>th</sup> July 2013	QIP
5.	ISTE workshop on "Signals & Systems"	IIT Kharagpur	02 <sup>nd</sup> -12 <sup>th</sup> January 2014	NME- ICT MHRD
6.	FDP on "LabVIEW for Engineers & Scientists"	COEP Pune	07 <sup>th</sup> -11 <sup>th</sup> July 2014	TEQIP-II

7.	STC on “Biosensors & Signal Processing”	NIT Raipur	22 <sup>nd</sup> -23 <sup>rd</sup> December 2016	TEQIP
8.	STC on “HDL for Signal, Image & Video Processing”	IIT Varanasi (BHU)	21 <sup>st</sup> -26 <sup>th</sup> August 2017	AICTE
9.	STC on “Advanced Spectroscopic Tools for Materials Characterization	MANIT Bhopal	12 <sup>th</sup> -22 <sup>nd</sup> June 2017	Deptt of Material Sci.
10.	STC on “Optimization for 5G cellular Networks, Sensing and Data Science”	IIT Kanpur	05 <sup>th</sup> -08 <sup>th</sup> October 2017	CDTE
11.	CVX-MATLAB Project on “Optimization for 5G cellular Networks, Sensing and Data Science”	IIT Kanpur	05 <sup>th</sup> -08 <sup>th</sup> October 2017	CDTE
12.	STP on “Active Learning Workshop”	IIT Bombay	11 <sup>th</sup> – 15 <sup>th</sup> June 2018	CDEEP-KITE
13.	One week National Workshop on “Pedagogy & Active Learning”	SATI Vidisha	20 <sup>th</sup> – 25 <sup>th</sup> May 2019	TEQIP-III
14.	One week STTP on “LabVIEW Programming”	SATI Vidisha	01 <sup>st</sup> -5 <sup>th</sup> July 2019	TEQIP-III & IET
15.	One week STTP on “Signal & Image Processing using LabVIEW”	SATI Vidisha	26 <sup>th</sup> – 30 <sup>th</sup> August 2019	TEQIP-III & VI solution
16.	One week FDP on “Advanced communication system & Technologies using NetSim”	SATI Vidisha	4 <sup>th</sup> – 8 <sup>th</sup> Nov 2019	TEQIP-III
17.	TEQIP Online certification on Digital transformation in teaching learning Process	IIT Bombay	feb 14 to mar 6, 2020	TEQIP-III
17.	Android Application programming	LCS Banglore	15 days, 25 may 20	
18.	Introduction to Python and Machine Learning	LCS Banglore	15 days, 27 may 20	
19.	NPTEL-AICTE FDP on Applied optimization for wireless, machine learning & Big data	IIT Madras	12 week, Sep-dec 20	NPTEL/AICTE
20.	NPTEL-AICTE FDP on Essential Mathematics for machine Learning	IIT Madras	8 week, Sep-dec 20	NPTEL/AICTE
21.	STC on Current trends in biomedical signal and Image processing	IIT Indore	20 -22 oct 20	TEQIP-III
22.	STC on AI driven biomedical data analysis for disease diagnosis	IIT Indore	5-10 nov. 20	TEQIP-III
23.	STC on Deep Dive in deep vision	IIT Indore	7-9 dec. 20	TEQIP-III
24.	Workshop on Artificial Neural networks and Datasience	SATI Vidisha	29 Sep.- 01 oct 21	GAMS
<b>One to Three days Seminar /FDP/ workshop /Symposia</b>				
1	National Seminar on “Advances in Wired & Wireless Communication”	B.U. Bhopal	26 <sup>th</sup> -27 <sup>th</sup> April 2008	IETE
2	FDP on “ERP-SAP”	SATI Vidisha	03-03-2012	TCS
3	“Author Workshop National Live WebEx by Keith Lambert”	SATI Vidisha	11-09-2013	Elsevier
4	“ National Workshop on Signal Processing”	SATI Vidisha	04 <sup>th</sup> -6 <sup>th</sup> December 2014	IET & TEQIP
5	IEEE Xplore digital library awareness workshop	SATI Vidisha	17 Aug 2015	IEEE
6	Seminar on “Sensors for Industrial Automation”	CRISP Bhopal	29-11-2015	CRISP
7	“National Workshop on Biomedical Engineering & Its Applications”	SATI Vidisha	29 <sup>th</sup> -30 <sup>th</sup> March 2016	MPCST
8	“Hands on Workshop on ICU Equipment	SATI Vidisha	29 <sup>th</sup> -30 <sup>th</sup> March 2016	RHP Medical Services
9	Symposium on “Signal Processing & Communication”	IIT Gandhi Nagar	17 <sup>th</sup> -18 <sup>th</sup> October 2016	TEQIP- II & Govt. of Gujrat
10	Workshop on Idea generation	SATI Vidisha	28 <sup>th</sup> feb 2018	
11	One day FDP certification program on “Application of Modelling & Simulation in Mechatronics, Industrial engineering & Thermodynamics”	SATI Vidisha	16 <sup>th</sup> Sep 2019	TEQIP-III

## STC/ FDP/SDP /Workshop Organized

S. No	Particulars	Place	Duration	Sponsoring Agency
<b>One week / two week / four week STC/ FDP/SDP Programme</b>				
1.	One week STTP on “LabVIEW Programming”	SATI Vidisha	01 <sup>st</sup> -5 <sup>th</sup> July 2019	TEQIP-III & IET
2.	STP on “LabView Programming & its Application”	SATI Vidisha	05 <sup>th</sup> -09 <sup>th</sup> March 2018	TEQIP-III
3.	Induction Program on “Research Methodology in Engineering & Science”	SATI Vidisha	25 <sup>th</sup> -30 <sup>th</sup> July 2018	ISTE & AICTE, New Delhi
4.	National Workshop on Signal Processing	SATI Vidisha	04 <sup>th</sup> -06 <sup>th</sup> Dec 2014	TEQIP-II & IET
<b>International Conference</b>				
1.	Recent trends in Signal Processing	SATI Vidisha	7 <sup>th</sup> -09 <sup>th</sup> Nov 2016	TEQIP-II & IET

### Resource Person

1. Teaching Assistant in One week ISTE STTP on “CMOS, Mixed Signal & Radio Frequency VLSI Design” organized by IIT Kharagpur under NMEICT from 30 Jan 2017-04 February 2017.

Date:

Place:

(Krishna Gopal Kirar)