


**H.K.E Society's  
PoojyaDoddappaAppa College of Engineering, Kalaburagi**

**FACULTY PROFILE FORMAT**

Personal Details	
<b>Name:</b> Dr. Juhi Nishat Ansari	
<b>Designation:</b> Associate Professor	
<b>Department:</b> E&CE	
<b>College Address:</b> PDACEK	
<b>Contact:</b> 8867420372	
<b>E-mail id(college mail id):</b> juhiansari@pdaengg.com	

<b>Areas of Interest</b>	Photonic and Optical Communication, Electric Vehicles
--------------------------	---

Subjects Taught	
UG	PG
Digital Electronics (Lab & Theory) Analog Electronics Circuits (Lab & Theory) Optical Fiber Communication Linear Integrated Circuits and Applications Power Electronics (Theory & Lab) Nanoelectronics Fundamentals of CMOS VLSI Satellite Communication Basic Electronics Basic Electrical Engineering (Lab & Theory) MATLAB Programming Analog CMOS VLSI Design Introduction to Mobile Communication	Design of Power Converters

Academic Background				
Degree	Specialization	Name of the Institute	University	Month and Year of Passing
Ph.D	Photonic and Optical Communication	Bheemanna Khandre Institute of Technology, Bhalki	VTU	May 2023
PG (M. Tech /M.E)	Power Electronics	PDACEK	VTU	November 2013
UG (B.Tech/B.E)	Electronics & Communication	Appa Institute of Engineering & Technology	VTU	June 2008

Work Experience							
Name of the Institution		Position		From		To	
Poojya Dodappa Appa College of Engineering, Kalaburagi		Associate Professor		09-10-2025		Till Date	
KCT Engineering College, Kalaburagi		Lecturer, Assistant Professor		01-09-2008		30-06-2025	
Total Experience	17	Teaching	17	Research	06	Administration	

Research Publications					
Total Number of Publications	International Journal	National Journal	International Conference	National Conference	Total
	13	-	02	03	18
Recent Publications (Journals)					
1.	“Light Storage in Photonic crystal based Hexagonal Resonator for Temperature Sensing”, IEEE, 2025 International Conference on Intelligent Systems and Computational Networks(ICISCN), 2025.				
2.	“Design of Ultra Compact Optical T Flip-flops using Two Dimensional Photonic Crystals”, International Journal of Electronics and Telecommunication, Engineering Science and Technology, Vol 71, Issue 1, pp.197-202, 2025.				
3.	“Photonic crystal-based Sensors- A Review”, National Conference on Recent Trends in Electronics and Communication (NCRTEC-2024), Navodaya Institute of Technology, 10-11 December 2024.				
4.	“Design and Analysis of the Low Bend Losses 2D Photonic Crystal Fiber-Based Rhombic Ring Resonator for Magnetic field Sensor”, Engineering Science and Technology, Vol 5, Issue 1, pp.17-27, 2023.				
5.	“Study of light behavior in waveguides and cavities of photonic crystal based optical devices”, AIP Conference Proceedings 2477, 030014, 2023.				

6.	“Light Storage in Photonic crystal based hexagonal resonator for temperature sensing at National Conference on Advances in Materials Science (NCAMS-2023), Reva University, 8-9 December 2023.
7.	“Photonic Crystals based sensors”, at International Conference on Multidisciplinary Research (ICMR), Sharanbasva University, Kalaburagi, 22-24 November 2022.
8.	“Photonic Crystal based Aslant Cavity with Infiltrated Magnetic Fluid for Sensing Magnetic Field”, Neuroquantology, vol. 20, no. 17, pp. 1865-1869, November 2022.
9.	“Storage of Light in Photonic Crystals for Sensing Applications” at DAE-BRNS National Laser Symposium-31, IIT(Kharagpur), 3-6 December 2022.
10.	“Photonic Nano Dielectric Crystal Cavity with Infiltrated Bio samples for Refractive Index Sensing Application,” Integrated Ferroelectrics, vol. 213, no. 1, pp. 93-102, 2021.
11.	“Photonic Crystal based Rhombic Ring Resonator for Pressure Sensing.” Design Engineering, pp. 10797-10805, 2021.
12.	“Forced Convection Upon Heat Sink of Al-Cu for Design Optimization by Experimental and CFD Analysis for Cooling of ICs in CPU,” International Journal of Recent Technology and Engineering (IJRTE), vol. 8, no. 4, pp. 11172-11176, 2019.
13.	“Sorption of Monoazo Dyes on Wool Fibers for Textile,” Journal of Advanced Physics, vol. 6, no. 1, pp. 142-147, 2017.
14.	“Synthesis, characterization, dielectric and rectification properties of PANI/Nd <sub>2</sub> O <sub>3</sub> : Al <sub>2</sub> O <sub>3</sub> nanocomposites,” Polymers for Advanced Technologies, vol. 27, no. 8, pp. 1064-1071, 2016.
15.	“Significant Enhancement in the Conductivity of Al-Doped Zinc Oxide Thin Films for TCO Application,” International Journal of Nanoscience, vol. 15, no. 04, p. 1650011, 2016.
16.	“A Stand-Alone Z-source Inverter for Wind Energy Conversion System with Wind Tripping Mechanism,” Wind energy, vol. 3, no. 10, 2015.
17.	“Speed control of BLDC motor for electric vehicle,” International Journal of Engineering Research & Technology (IJERT), vol. 3, no. 5, pp. 1-6, 2014.
18.	“Speed control of BLDC motor for electric vehicle,” International Journal of Engineering Research & Technology (IJERT), vol. 3, no. 5, pp. 1-6, 2014.

Memberships in Professional Bodies	
S.No.	Name of the Professional Body with Membership ID
1.	Senior Member, Institute of Electrical and Electronics Engineers (IEEE) Membership ID #: 94608049
2.	Life Member, Institute of Engineers India (IEI) Membership ID #:
3.	Life Member, Institution of Electronics & Telecommunication Engineers (IETE) Membership ID #: M-235722
4.	Life Member, Indian Society for Technical Education (ISTE) Membership ID #: 135144
5.	Life Member, Indian Laser Association (ILA) Membership ID #: LM1494
6.	Member, International Association of Engineers (IAENG) Membership ID #: 269357
7.	Member, Asia Society of Researchers (ASR) Membership ID #: R219093280
8.	Member, Artificial Intelligence Medical and Engineering Researchers Society (AIMER)
9.	Premium Professional Member, Institute for Educational Research and Publication (IFERP) Membership ID #: PROF-30810767

Programs Organized	
1.	Organized a workshop on “Problem Solving and Ideation” on 4 <sup>th</sup> December 2024 at KCT Engineering College, Kalaburagi.
2.	Organized an “Innovation & Entrepreneurship Outreach Program in School” from 13th June 2024 to 15th June 2024 at Islamia School, Kalaburagi.
3.	Organized a workshop on “Understanding & Promoting Mental Health in the Contemporary World” on 11 <sup>th</sup> Nov 2023 at KCT Engineering College, Kalaburagi.
4.	Organized an awareness program on “Competitive Exams, Government Exams:Counselling & Coaching” on 2 <sup>nd</sup> August 2023 at KCT Engineering College, Kalaburagi.
5.	Organized a workshop on “Innovation and Design Thinking” on 28 <sup>th</sup> February 2023 at KCT Engineering College, Kalaburagi.
6.	Organized a Workshop on “Entrepreneurship and Innovation as Career Opportunity” on 26 <sup>th</sup> Sept 2023 at KCT Engineering College, Kalaburagi.
7.	Organized One Day Workshop on NBA, held at KCT Engineering College, Kalaburagi, 17 Jan 2018.

Awards	
1.	Awarded as the Best Paper Presenter for the paper entitled “Light Storage in Photonic Crystal-Based Hexagonal Resonator for Temperature Sensing” at IEEE 2025 International Conference on Intelligent Systems and Computational Networks (ICISCN), Lingraj Appa Engineering College, Bidar, 24-25 January 2025.

Training Programmes Attended	
1.	Successfully completed 12 weeks Faculty Development Program on Introduction to Internet of Things conducted by NPTEL-AICTE, July-August 2025.
2.	Attended One-Day International Workshop on Defining Research and Innovation Strategy for Excellence organized by Maryam Abacha American University of Nigeria on 30th October 2025.
3.	Successfully completed Two-Day Faculty Development Program on Intellectual Property Rights (IPR) titled Identification, Protection, Commercialization of Inventions conducted by Karnataka State Council for Science and Technology (KSCST) in association with PDA College of Engineering, Kalaburagi on 11th and 12th August 2025.
4.	Successfully completed the Ideathon conducted by Atria University and Visvesvaraya Technological University under the flagship program of Karnataka Artificial Intelligence Innovation Centre Ecosystem, 2025.
5.	Successfully completed 12 weeks Faculty Development Program on Introduction to Industry 4.0 And Industrial Internet of Things conducted by NPTEL-AICTE, January-April 2025.
6.	Successfully completed Masterclass Series under IP Utsav organized virtually by AICTE and Ministry of Education’s Innovation Cell (MIC), 21-26 April 2025.
7.	Attended One-week Faculty Development Program on Advanced Computational Techniques for Electric Vehicles and Renewable Energy Sources organized by Faculty of Engineering and Technology (Co-Education), Sharanbasva University, Kalaburagi, 2-6 April 2025.
8.	Attended five days Entrepreneurship Development Program on Solar PV Rooftop Technology organized by PDA College of Engineering, Kalaburagi, 3-7 March 2025.
9.	Attended two weeks Faculty Development Program on Artificial Intelligence and Data Science: Insights, Practices and Applications, KBN University, Kalaburagi, 1-15 June 2024.
10.	Attended ISTE sponsored One-week FDP on Simulation Tools organized by SITCE, Ichalkaranji, 8-14 February 2022.

11.	Attended One Week AICTE-VTU Joint Online Training program for Teachers on Basics of Electronics and Communication Engineering organized by VTU Human Resource Development Cell, Centre for PG Studies, VIAT, Muddenahalli, 13-17 December 2021.
12.	Successfully completed Short term course on Matrix Computations and its Applications in systems, signal, and control problems, conducted as a part of quality improvement program, Department of Mathematics, IIT Indore, 16-21 February 2021.
13.	Successfully completed AICTE Training and Learning (ATAL) Academy online Faculty Development Programme on Internet of Things (IoT), KKR & KSR Institute of Technology & Sciences, 8-12 February 2021.
14.	Successfully completed AICTE Training and Learning (ATAL) Academy online Faculty Development Programme on Photonics, National Institute of Technology, Kalaburagi, 1-5 February 2021.
15.	Successfully completed AICTE Training and Learning (ATAL) Academy online Faculty Development Programme on Artificial Intelligence, PDA College of Engineering, Kalaburagi, 9-13 November 2020.
16.	Successfully completed AICTE Training and Learning (ATAL) Academy online Faculty Development Programme on Internet of Things (IoT), Shetty Institute of Technology, Kalaburagi, 5-9 October 2020.
17.	Attended Two Week Online Faculty Development Programme on Embedded UVM open source Emulation and Functional Verification jointly organized by Electronics and ICT Academies under the scheme of financial assistance for setting up of Electronics and ICT Academies of Ministry of Education and Information Technology (MeitY), Government of India, 13-24 July 2020.
18.	Attended TEQIP-III sponsored One Week Short Term Training Program on Medical Signals, Processing & Analysis for Cognitive Research: A Practical Approach held at PDA College of Engineering, Kalaburagi, 27 January - 1 February 2020.
19.	Attended Five days' workshop on OBE: Roadmap to NBA held at PDA College of Engineering, Kalaburagi, 21-25 January 2020.
20.	Attended One Week Short Term Training Programme through ICT Mode on NBA Accreditation organized by KCT Engineering College, Kalaburagi, 22-26 April 2019.
21.	Attended One Week Short Term Training Programme through ICT Mode on Problem-Based Learning organized by KCT Engineering College, Kalaburagi, 11-15 February 2019.
22.	Attended Three Days National Level Workshop on Research Methodology & Hands-on Training on LaTeX, held at KBN College of Engineering, Kalaburagi, 23- 25 March 2018.
23.	Attended TEQIP-III sponsored One Week Short Term Training Program on Power Electronics & Drives, held at PDA College of Engineering, Kalaburagi, 5-10 March 2018.
24.	Attended One Week Faculty Development Programme on Research Methodology, held at Basavakalyan Engineering College, Basavakalyan, 31 July to 5th Aug 2017.
25.	Attended Three days' workshop on Power Quality Issues & Mitigations, held at PDA College of Engineering, Kalaburagi, 24- 26 Oct. 2016.
26.	Attended Four days VTU-VGST Faculty Development Program on Future Research Trends & Innovations in Information, Communication & Technology, held at Bheemanna Khandre Institute of Technology, Bhalki, 8-11 May 2014.

Role & Responsibilities	
1.	Convener, Institution Innovation Council (KCTEC)
2.	Institute Coordinator, Unnat Bharath Abhiyan (KCTEC)
3.	Nodal Coordinator, Virtual Labs for Practical Courses, NIT-Surathkal (KCTEC)

