

Name : **K. JYOSTNA**  
 Designation : Assistant Professor  
 Department : ECE  
 Mail ID : jyostna\_k@vnrvjiet.in  
 Experience (in years): Teaching: 14 Research: --Others (If any, Specify): -



**1. Educational / Technical qualifications:**

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	B.Tech	2004	Electronics and Communication Engineering
2	M.Tech	2007	Embedded Systems
3	Ph.D	Pursuing	Wireless Networks

**2. Teaching and Learning:**

- 2.1. Teaching Interests: Computer Networks, Microprocessors and Microcontrollers, Embedded Systems, Real Time Operating Systems, Wireless Communications
- 2.2. Novel Teaching & Learning Techniques adopted: PPT, Videos, POGIL, Group Discussion, Quiz, Mind map, WIT and WIL, Lab Protocol
- 2.3. Involvement in curriculum updating / Design: Updating the syllabus of various subjects like Microprocessors and Microcontrollers, Embedded Systems, Real Time Operating Systems, Computer Networks

**3. Co-curricular and Extra-Curricular Activities**

- 3.1. Interests and Hobbies: Reading books, promoting team work, listening to music, travelling, shopping
- 3.2. CCA/ECA Organized: Coordinator for the conduct of convergence and Scintillashunz
- 3.3. CCA/ECA participated: Presented poster in Convergence
- 3.4. Counseling and Mentoring Activity: Mentoring II, III and IV B.Tech students, Counseling M.Tech students when required.
- 3.5. Committees involved in:
  - Department level: Member-Department Development Committee, Project Review Committee, Sintillashunz
  - Institute Level: Member - Open House, Member - Industry Institute Interaction Cel

**4. Conference / Workshop / Seminar / Guest Lectures:**

- 4.5. Conducted: Workshop on “Embedded hardware, Operating systems and IOT Applications”, Seminar on Latest Embedded Processors, IACC-2017  
 Hands on workshop on :Embedded Systems, Embedded OS and RTOS during 23<sup>rd</sup> to 24<sup>th</sup> March 2019 and 29<sup>th</sup> to 30<sup>th</sup> March, 2019 at VNRVJIET
- 4.3 Attended: VELASIAM – 2012, WOCN -2014, iCATccT - 2016, IACC - 2017, ICSCCT - 2019, ICSCSP-2022  
 Attended one day workshop on “Recent innovations in Cognitive Radio and Software Defined Radio” at OU on 29<sup>th</sup> Dec. 2018.

**5. Academic Contribution and Research & Consultancy:**

- 5.1. Invited Lectures: Guest Lecture on “Applications of Processors and Controllers” ,  
 Guest Lecture on “Microprocessors and Microcontrollers”  
 Guest Lecture on “Overview of Microprocessors” at VNRVJIET
- 5.2. Articles/Chapters published in Books: Nil
- 5.3. Books published as single author or as editor: 1
- 5.4. Projects Guided:
  - a) UG: 20
  - b) PG: 08
- 5.5. Research Interests: Wireless Networks, Embedded Systems

5.6. Ph.D students:

- a) Enrolled: Nil
- b) Submitted: Nil
- c) Awarded: Nil

5.7. Papers published in reviewed Journals:

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	Water Utilization Monitoring and Supplementary Sourcing Strategy using Dash7 Technology	International Journal of Science and Research Volume 3, Issue 12	2319-7064	3.358	International
2	Secure Embedded System Networking- An advanced security perspective	International Journal of Engineering Science and Technology Volume 3, Issue 5	0975-5462	3.5	International
3	Driver Alert System Using Accelerometer And Msp430	International Journal For Advanced Research In Engineering & Technology	2320-6802	5.6	International
4	Development of Zigbee Based Home Automation 1.2 Profile Controller For Smart Hub	International Journal of Engineering Sciences & Emerging Technologies	22316604		International
5	Spectrum Sensing techniques for Cognitive Vehicular Networks	International Journal of Advanced Research in Computer and Communication Engineering, Vol. 11, Issue 5, May 2022	<b>2278-1021</b>	7.39	International

5.8. Papers presented at National / International conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
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1	Performance analysis of SC MIMO-CDMA system using STBC codes	IEEE Conference on Wireless and Optical Communications Networks (WOCN), 2014	International	11-13 Sep,2014
2	Performance Analysis of Group Based Cooperative Sensing Schemes	International Conference on Applied and Theoretical Computing and Communication Technologies	International	21-23 July, 2016
3	Development of Smart Insulin Device for Non Invasive Blood Glucose Level Monitoring	International Advance Computing Conference	International	5-7 January, 2017
4	A Method to Implement Scheduling and Prioritization of Messages in VANETs	International Conference on Intelligent Computing and Smart Communication Technologies(ICSCCT)	International	26-27 July, 2019
5	Machine Learning based spectrum sensing in Cognitive vehicular networks	Virtual International Conference on AI and ML Applications in Smart Buildings – AMSB2020	International	23-24 July 2020
6	Enhancement of Sensing Performance in Cognitive Vehicular Networks	International Conference on Soft Computing and Signal Processing(ICSCSP-2022)	International	24-25 June, 2022

5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed
-	-	-	-	-	-

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed
-	-	-	-	-	-

6. Awards / Honors received: Nil

7. Motto: The difficulties of life are to make us better not bitter