Name: **HELAN SATISH**

Designation: Assistant Professor

Department: E.C.E

Mail.I.D: helan_satish@vnrvjiet.in

Experience (in years): 15

Research: 5

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D	Pursuing	Biomedical Engineering
2	M.E	2006	Applied Electronics
3	B.E	2004	E.C.E

2. Teaching and Learning:

- 2.1. Teaching Interests: CS,SS, Biomedical Engineering, EDC, LDIC, ERTOS, DIP
- 2.2. Novel Teaching & Learning Techniques adopted: Chalk and talk, WIT and WIL, POGIL, Lab Protocol, Group Discussion, Open Notebook test.
- 2.3. Involvement in curriculum updating / Design: yes

3. Co-curricular and Extra-Curricular Activities

- 3.1. Interests and Hobbies:
- 3.2. CCA/ECA Organized: Coordinator for VJ Teatro
- 3.3. CCA/ECA participated: Involved in Intramurals and Sintillashunz
- 3.4. Counseling and Mentoring Activity: As mentor for 10 students from each year of ECE.
- 3.5. Committees involved in:

Department level: Result Analysis In-charge, EDC Lab In-charge, Prepared Embedded C Lab Protocol, Anti Ragging, Prepared EDC Lab Manual, AQAR 2020-2021 Department Coordinator, ECE Newsletter (ELECTROCOMM-IN-VISION).

Institute Level: Stock Verification, Academic Audit, VJ Teatro Faculty Coordinator, Event Scheduling and Conduction Committee for Sports Fest, Cultural Day and Annual Day AY2021-22.

4. Conference / Workshop / Seminar / Guest Lectures:

- 4.1 Conducted:-
- 4.2 Attended:
 - A Short Term Training Program on Real Time Signal Processing & Image Processing of 2 weeks at VNR VJIET during June 2011. Sponsored by AICTE.
 - FDP on ARM Processors in Sept 2013.
 - Workshop on Texas Analog design in Oct 2013.
 - Two days TEQIP Sponsored workshop on "PCB designing of electronic circuits" in VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad from 22nd& 23rd FEB 2013.
 - FDP on CLOUD COMPUTING Feb 2013.
 - 2 week AICTE Sponsored Workshop on "Trends in Wireless communication and Evolution of Simulation tools" conducted from 11th May to 23rd May 2015.
 - 2 day workshop on "POGIL FOR OUTCOME BASED EDUCATION" on Dec 2014.
 - Workshop on Real time systems
 - Workshop on LABVIEW in 2015
 - Workshop on MATLAB in 2015
 - Seminar on Image Fusion techniques in 2016 (27.01.2016)
 - FDP on Trends in Image and Video Processing (MGIT) in 2016 from 22-27 February
 - FDP on Molecular Modelling and In-silico Drug Designing." from 23/08/2021 to 27/08/2021 at St. Joseph's College of Engineering.



- FDP on "Computers and Automation in Life-Sciences Based Research" from 30/08/2021 to 03/09/2021 at Institute of Chemical Technology.
- FDP on "Computing Constructs for Modelling Biology" from 04/10/2021 to 08/10/2021 at JNN College of Engineering.

5. Academic Contribution and Research & Consultancy:

- 5.1. Invited Lectures:-
- 5.2. Articles/Chapters published in Books:
- 1. Reentry in cardiac ventricular epicardial tissue due to SCN5A L812Q gene mutation: a computational study, Biomedical Physics & Engineering Express, 10.1088/2057-1976/ac605c
- 2. A Simulation Study on Propagation of Action Potential in Epicardial Tissue Due to SCN5A L812Q Gene Mutation, Recent Advances in Applied Mechanics, 10.1007/978-981-16-9539-1 4
- 5.3. Books published as single author or as editor:-
- 5.4. Projects Guided:

a) UG: 10 b) PG: 6

- 5.5. Research Interests: Biomedical Engineering
- 5.6. Ph.D students:

a) Enrolled:

b) Submitted:

c) Awarded:

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	An Improved Inverter Based Double-Tail Comparator for Ultra Low-Voltage Circuits	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 4, No8	ISSN (Print) : 2320 – 3765 ISSN (Online): 2278 – 8875		International
2	Reentry in cardiac ventricular epicardial tissue due to SCN5A L812Q gene mutation: a computational study	Biomedical Physics & Engineering Express	Online ISSN: 2057- 1976		International
3	A Simulation Study on Propagation of Action Potential in Epicardial Tissue Due to SCN5A L812Q Gene Mutation	Recent Advances in Applied Mechanics	Online ISBN978- 981-16- 9539-1		

5.8. Papers presented at National / International conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Secret Key Estimation In Sequential Steganography	AICTE Sponsored	National	2006
2	Computational Study of SCN5A L812Q Gene Mutation in Epicardial Cells	2020 IEEE-EMBS Conference on Biomedical Engineering and Sciences (IECBES)	International	2021
3	A Simulation Study on Electrical Activity of Ventricular Endocardial Tissue due to SCN5A L812Q Mutation	2021 43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)	International	2021

5.9. Sponsored research Projects: Nil 5.10 Consultancy Projects: Nil

6. Awards / Honors received:-

7. Motto: There is no substitute for hard work. Aim high.