Name   : **Dr. NAGADEEPA CH.**
Designation   : Assistant Professor
Department:Electronics&CommunicationEngineering
Mail ID: nagadeepa_ch@vnrvjiet.in
Experience :12 years Teaching :12 yrs Industry: 4 yrs
Research: Nil   Others: Nil

1. Educational Qualifications

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D.	2021	Pattern recognition using Machine learning
2	M.Tech.	2010	Embedded Systems
3	B.Tech.	2007	ECE

Membership in Professional Societies:
- Life Member of ISTE.
- Life Member of IETE.

2. Teaching and Learning:

2.1.Teaching Interests:
- Control system
- Embedded real time operating system
- Electronic Circuit Analysis
- Switching theory and Logic Design
- Electronic Devices and Circuits
- System On Chip Architecture
- System design with Embedded Linux

2.2.Novel Teaching & Learning Techniques adopted: WIT and WIL, Discussion Method, Brain storming, Mind mapping, POGIL.

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies
   Interested in improving the presentation skills and Listening Music

3.2. CCA/ECA Organized:
   Organizing Co-ordinator for Open House projects -2017

3.3. CCA/ECA Involved: NIL

3.4.Counseling and Mentoring Activity:
   Mentoring for II and IV B.Tech .ECE Students.

3.5 Committees involved in:
   Department level:
   - Member of M.Tech. and B. Tech.- major & mini project review committee
   - Involved in the Academic activities
   - AICTE-INAE Distinguished Visiting Professor (DVP) Scheme- coordinator
   - AICTE- Distinguished Chair Professor (DVP) Scheme- coordinator
   Institute Level:
   - Virtual Lab Coordinator
   - IQAC - member

3.6 Member of committee at VNRVJIET: (BOS): NA

3.7. Laboratory Participation & Student Project Guidance
   Involvement in Laboratories:
   - Domain Laboratories: In charge for the Electronic Devices and Circuits Lab.

- Academic Laboratories: Handled EDC, ECA, PDC, BEE and MPMC labs.

3.8. Implementation of Novel Teaching Methodologies:

1. Supporting students to learn by practice: Yes
2. Guiding B.Tech. Projects and M.Tech./Ph.D. Thesis: B.Tech: 12

   M. Tech: 9
3. Projects that can be pursued in various domains: Human Computer Interaction

   a) Hybrid Model for Telugu Character recognition
   b) Implementation of online character recognition using Machine Learning
   c) Hand gesture Recognition
   d) Pattern recognition using machine learning techniques.
   e) Home automation using IoT
   f) Human Activity recognition using Machine Learning

3.9. Industry Visit

1. Company / Industry: INCOIS in June 2022
2. Company / Industry: Sulakshana Circuits Ltd.
   Area Studied: PCB Designing
   Objective: how to design a PCB for an electronic circuit
   Scope: Designing of multi-layer PCB Boards for the projects
3. Shadow Engineering:
   Company / Industry: Suvarna Cements .Date : Oct 2013
   Area Studied: SCADA software, Transducers
   Objective: how to control a plant using software and know the working of various Electronic Measuring Instruments
   Scope: we will understand Multi-Disciplinary works

4. Conference / Workshop / Seminar / Guest Lectures:

4.1. Short Term Training Programs Conducted:

- Guest lecture in IoT training program on "IoT and Industrial IoT " on 7-6-2021.
- Guest lecture in IoT training program on "Operating Systems used in Computing systems" on 31-5-2021
- Guest lecture in webinar about "Basics of Electronic devices" Organised by Dept. of ECE, VNRVJIET, on 22-7-2020
- Organized oneday workshop on "Virtual lab & their importance" Organised by VNRVJIET, resource persons Mr. P. Ravi Shankar and Ms. Mrudhvika Damaraju from IIIT Hyderabad on 4-5-2020 .
- Organized 4 day training program/ workshop on "Rapid Prototyping &System design on IoT-using ARM CORTEX M4 MCU" in collaboration with EDGATE Technologies Pvt. Ltd. Bangalore during 21st to 24th May 2018.
- Organized 3 day Faculty Development program on "Introduction to system design and IOT application using Texas Instruments Platforms" in collaboration with EDGATE Technologies Pvt. Ltd. Bangalore during 26th to 28th February 2018.
- Organizing member of the 7th IEEE International Advance Computing Conference (IACC 2017) during 5th –7th Jan.2017 by VNRVJIET along with IEEE Computer Society India Council.
- Organized four days TEQIP Sponsored workshop on "PCB Designing" in collaboration with Techno Tran, Hyderabad during 11-2-2016 to 12-2-2016 and 18-2- 2016 to 19-2-2016.
- Organized a 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.

- Organized a two days TEQIP Sponsored workshop on "Electronic Board Designing" in VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad from 22nd& 23rdJuly 2013.

4.2. Short Term Training Programs Attended:

- Attended a webinar on "REVISITING OUR TEACHING PHILOSOPHIES IN ONLINE ENVIRONS" organised by from IEEE Education Society Chapter ,IEEE Hyderabad Section, Hyderabad Section in collaboration with IEEE WIE-AG on 22-05-2021.
- Attended a Lecture on " "Effective time management - 'Time isn't the main thing, it's the only thing'" by Mr. Anil Kumar Sharma, Director, Capgemini, organised by IIT Madras 0n 19-5-2021
- Attended Session a webinar on "Developing ML Applications Responsibly" by Dr. Prasad Ramanathan, Sr. Director Capgemini Technology Services India Ltd. Conducted by IIT Madras on 3-5-2021
- Attended FDP on "Internet of Things (IoT)" from 12-10-2020 to 16-10-2020 at Indian Institute of Information Technology Kota.
- Attended, online Training Programme on Digital tools for Writing, Authoring & Reviewing Manuscripts jointly organized during 21st September and 2nd October 2020. This programme is endorsed by NBA/AICTE/UGC.
- Attended One Week Faculty Development Program on "Emerging Trends in Computer Science & Engineering and their Applications" from 5th -9th August-2020 organised by Department of Computer Science and Engineering, NSAKCET and C-DAC Bengaluru.
- Attended webinar on "How to write winnable research Proposals", organized by Dept. of CSE&RCC VNRVJIET on 28-07-2020.
- Attended International webinar on "Transforming Health care Through AI Revolutions", organized by IEEE Computer Society on 27-07-2020.
- Attended Three Day Workshop on "ICT Tools & Techniques for Teaching, Learning Process", conducted by Dept of IT in VNRVJIET, 16-7-2020 to 18-7-2020.
- Attended One week Workshop on "FDP: "MATLAB and its Applications in Engineering using Machine Learning and Deep Learning", conducted by Department of ECE, G. Pulla Reddy Engineering College , Kurnool, Andhra Pradesh, from 13-7-2020 to 18-7-2020.
- Attended FDP on "Machine Learning" from 8th to 13th June 2020 conducted by CDC, VNRVJIET.
- Attended FDP on "AI and IoT for medical applications" conducted by GMRIT, Rajam, AP from 1-6-2020 to 3-6-2020.
- Attended FDP on "ATAL FDP on Artificial Intelligence" conducted by Department of Computer Science and Engineering, MANIT Bhopal MP from 27-4-2020 to 1-5-2020.
- Attended FDP on "ATAL FDP on Artificial Intelligence" conducted by MSME - Technology Development Centre (PPDC) Meerut from 27th April -1st May 2020.
- Attended AICTE Training And Learning (ATAL) Academy Online FDP on "Artificial Intelligence" from 27-04-2020 to 01-05-2020 at MSME -Technology Development Centre (PPDC) Meerut.
- NKN Summer FDP on "Embedded System and Interfacing hands-on" from 10th – 14th June 2019 jointly organized by: Electronics & ICT Academies at - MNIT Jaipur, NIT Patna & IIITDM Jabalpur.

- Attended FDP on 3D Printing for Industrial & Biomedical Applications" from 2-12-2019 to 6-12-2019 in association with E & ICT Academy, NIT Patna at VNRVJIET.
- Attended Faculty Development Programme On "Robotics & Ai Hands-On" Jointly Organized By Electronics & ICT Academy, National Institute of Technology Patna from 24-6-2019 to 28-6-2019.
- Attended Two day Workshop on "IoT and Drones "conducted by Leading India at VNRVJIET, Hyderabad on 26-1-2019 to 27-1-2019.
- Attended One day workshop on Virtual lab by IIIT, Hyderabad on 11th JAN 2019.
- Attended a Faculty Development Program by Mathworks on " Signal Processing with Simulink" from 23-1-2018 to 25-1-2018.
- Attended Two day Saptahaant Shikshak Prashikshan on "Introduction to Machine Learning "conducted by Indian Institute of Technology Kharagpur at VNRVJIET, Hyderabad on 16-12-2017 to 17-12-2017.
- Attended 10-Day FDP on "Recent Trends in Signal Processing "organized by the E&ICT Academy, NIT Warangal at VNRVJIET, Hyderabad from 22nd JUNE to 1st JULY 2017.
- Attended One day workshop on "Advanced Programming Techniques with MATLAB" by JNTUH College of Engg., Hyderabad on 16-9-2016.
- Attended One week workshop on Deep learning in visual computing "WDLVC-2016" by IIT, Hyderabad from 20th -25th June 2016.
- Attended Three day TEQIP-II Sponsored workshop on "Low Power Embedded Systems using ARM Cortex-M4F based MSP 432"organized by VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad from $16^{th}$to 18^{th}JUNE 2016.
- Attended One day workshop on "Cloud Big data analytics with Microsoft Azure Machine learning and power BI tools" by IEEE, Hyderabad section computational Intelligence Society chapter on 16-4-2016.
- Attended One day workshop on Image and Speech Processing "WISP-2015" by IIIT, Hyderabad on 19th Dec 2015.
- Attended 1-Day Electronic gadget Expo Program on "INDIA GADGET-2015", Hyderabad on 8th Sep2015.
- Attended 6-Day Faculty Updating Program on "Embedded System Design using ARM Cortex-M3"conducted by CDAC, Hyderabadfrom4-8-2014 to 9-8-2014.
- Participated a two weeks TEQIP Sponsored Faculty development program on "Real Time Embedded Systems" in VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad from 18-11-2013 to 30-11-2013.
- Attended 3-Day International Workshop on "Reviving Education by Implementing Active and Guided Enquiry Experiences in Stem Science, Technology, Engineering and Math REIMAGINE STEM" conducted in VJIET, Hyderabad from 5-8-2013 to 7-8-2013.
- Attended two day TEQIP Sponsored workshop on "Skill up-gradation on open Source Platform(Linux)" in VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad from 17-5-2013 to 18-5-2013.
- Attended 3-Day workshop on "Art of Teaching" conducted by Enhance Edu, IIIT, Hyderabadon2-5-2013 to 4-5-2013.
- Participated in the TEQIP-II Sponsored Faculty Development Program on "ANALOG SYSTEM DESIGN USING TI ASLKV2010" in VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad from 14-2-2013 to 16-2-2013.
- Attended One day workshop on Image and Speech Processing "WISP-2012"by IIIT, Hyderabad on 17-12-2012.

4.3 Certification courses

- Coursera course completion of "Machine Learning Foundations: A Case Study Approach" a MOOC from the University of Washington , August 26, 2020 ,6 weeks of study, 5-8 hours/week, Grade Achieved: 94.35%
- Coursera course completion of "Machine Learning: Classification" on August 24, 2020,7 weeks of study, 5-8 hours/week, with Grade Achieved: 94.62%
- NPTEL online certification course completion of "Introduction to Machine Learning", Aug-Oct 2018 with a score of 61%.
- NPTEL online certification course completion of "NBA Accreditation and Teaching-Learning in Engineering (NATE)", JAN-APRIL 2022 with a score of 68%.

4.4 Guest Lecture:

- As a resource person in AICTE-ISTE Online Induction program on "Electronic CKT analysis with MATLAB", during 27-12-2021 to 01-01-2022, Organised by Geetanjali College of Engineering and Technology, Cheeryal, Hyderabad.
- As a resource person in IoT training program on "IoT and Industrial IoT" on 7-6-2021.
- As resource person in IoT training program on "Operating Systems used in Computing systems" on 31-5-2021.
- As a speaker in webinar on "Basics of Electronic devices" Organised by Dept. of ECE, VNRVJIET, on 22-7-2020.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures : Nil

5.2. Articles/Chapters published in Books:

- Choppakatla N., Balaji N., Padmaja V. (2021) A Novel 3D Hand Gesture Based Telugu Alphabet Dataset Creation for Text Input and Analysis of Hybrid Filtering Technique with Accelerometer Sensor Data. In: Soft Computing and Signal Processing. Advances in Intelligent Systems and Computing, pp.717-726, vol 1325, Springer, Singapore. https://doi.org/10.1007/978-981-33-6912-2_65
- Kolluri P., Chilamkuri P., NagaDeepa C., Padmaja V. (2021) Classification of Human Postural Transition and Activity Recognition Using Smartphone Sensor Data. In: Sharma H., Saraswat M., Yadav A., Kim J.H., Bansal J.C. (eds) Congress on Intelligent Systems. CIS 2020. Advances in Intelligent Systems and Computing, vol 1335. Springer, Singapore. https://doi.org/10.1007/978-981-33-6984-9_35

5.3. Books published as single author or as editor: Nil

5.4. Projects Guided :

    a) UG : 12

    b) PG : 10

5.5. Research Interests: Pattern recognition using Artificial Intelligence,
                    Human computer Interaction, IoT

5.6. Ph.D students : NA

    a) Enrolled :

    b) Submitted:

    c) Awarded:

Remote Internship Program:

As mentor in the TCS Remote Internship program form March 2021 to June 2021

As mentor in the TCS Remote Internship program form 28-12-2016 to 21-04-2017.

5.7. Papers published in reviewed journals

S.No.	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	UGC Approved	Impact Factor/ Citation Index	National/ International
1	Embedded Real Time Video Monitoring System using ARM	IOSR Journal of Engineering (IOSRJEN) Vol. 3, Issue 7 (July. 2013), V6 PP 14-18	2278-8719	YES	1.8896	International
2	FPGA Implementation of A Cryptography Technology Using Pseudo Random Number Generator	International Journal of Engineering Research & Technology (IJERT) Vol. 2 Issue 11, November – 2013, page No.2036-2040.	2278-0181	YES	1.76	International
3	Interactive Character Recognition Technique for Mobile Based Systems: An Application for Autistic People	International Journal of Advanced Computational Engineering and Networking (IJACEN), Vol.1, Issue-9, Nov-2013.	2320-2106	YES	1.49	International
4	Real Time Implementation of Telugu Character Recognition using Raspberry Pi	International Journal of Science and Research (IJSR) Vol. 3 Issue 12, December 2014 , Pg No: 722-726,	(Online): 2319-7064	NO	3.358	International
5	Implementation of Gesture Recognition System for Home Automation using FPGA and ARM Controller	International Journal of Science and Research (IJSR),Vol.4 Issue 2, Feb2015, Pg No: 2099-2105	(Online): 2319-7064	NO	4.438	International

6	Analysis of Inertial Sensor Data Using Trajectory Recognition Algorithm	International Journal on Cybernetics & Informatics (IJCI) Vol. 5, No. 4, August 2016	2277-548X (Online) ; 2320-8430(print)			International
7	Online English character recognition using Raspberry pi	International Journal of Scientific Engineering and Technology Research (IJSETR), Vol.6 Issue 20, June 2017, Pg. No: 3978-3981	2319-8885	NO	5.7	International
8	AGRD Real Time Hand Gesture Controlled Assistive System using IoT for Elderly People	International Journal of Advanced Science and Technology (IJAST) Vol-128-Issue-1-July-2019	E-ISSN:2207-6360		Impact Factor: 0.41 H-index: 4	International
9	Real Time Hand Gesture Recognition With A Novel Distance Measure GPD For IoT Based Controlled Assistance System	International Journal Of Scientific & Technology Research (March 2020)	ISSN 2277-8616	Scopus	0.3	International
10	HVAC and Audio Control System using Gesture Recognition in Cars	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	ISSN: 2278-3075	Scopus	0.6	International

		Volume-9 Issue-3, January 2020				
11	A Survey on Handwriting Recognition	Alochana Chakra Journal(June 2020)	2231-3990	UGC care	6.3	International

5.8. Papers Presented in International Conferences:

S. No.	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Artificial Intelligence based Cervical Cancer Risk Prediction Using ML Algorithms	IEEE International Conference on Emerging Smart Computing and Informatics (IEEE- ESCI)	International	9-3-2022 to 11-3-2022
2	Social Distance Alert System to Control Virus Spread using UWB RTLS in Corporate Environment	IEEE International Conference on Advent Trends in Multidisciplinary Research and Innovation (ICATMRI-2020)	International	30-12-2020
3	Human Activity Classification using Machine Learning Techniques with Feature Selection	International Conference on Advanced Informatics for Computing Research (ICAICR-2020)	International	26-12-2020 & 27-12-2020
4	Classification of Human Postural Transition and Activity Recognition Using Smartphone Sensor Data	Congress on Intelligent Systems CIS 2020	International	5-9-2020 & 6-9-2020
5	A Novel 3D Hand Gesture based Telugu Alphabet Dataset Creation for Text input and Analysis of Hybrid Filtering Technique with Accelerometer Sensor Data	Springer 3rd International Conference on Soft Computing and Signal Processing 2020, Malla Reddy College of Engineering & Technology, HYDERABAD, India,	International	21-08-2020 & 22-8-2020

		ICSCSP20		
6	Implementation of IoT Based Ambient Assisted Living Using Raspberry Pi	ICRIEECE-2018	International	27th -28th JULY 2018
7	Inertial Wristband based Hand Gesture Control for Virtual Environment	IACC-2017	International	5th -7th JAN 2017
8	Analysis Of Inertial Sensor Data Using Trajectory Recognition Algorithm	ICECE 2016	International	29th JULY 2016
9	An Efficient Framework for 2-Dimensional Gesture based Telugu Character Recognition	IEEE-2016 6th International Advance Computing Conference, IACC 2016 978-1-4673-8286-1/16 $31.00 © 2016 IEEE DOI 10.1109/IACC.2016.89	International	27th -28th FEB 2016
10	Hand Gesture recognition system using accelerometer and Gyroscope	4th International Conference on Computing, Communication and Sensor Network',CCSN2015.	International	24th DEC 2015,
11	Development of Touch Screen Device Driver for Online character recognition based on OMAP3530 Processor	Elsevier Proceedings of 8thInternational Conference on Image and Signal Processing (ICISP-2014)	International	July24th to 25th 2014.
12	Interactive Character Recognition Technique for Mobile Based Systems: An Application for Autistic People	International Academic Conference on Electrical, Electronics and Computer Engineering (IACEECE-2013)	International	September 2013.

6. Awards / Honors received:

- Received Certificate and Memento for Organizing DrishTI online contest 2019 conducted from 4-9-2019 to 10-9-2019 by Texas Instruments India University Program.
- Secured Second prize in Women's Tug of War during Teacher's Day Celebrations in the month of Sep 2019 in VNRVJIET.

- Received Certificate and Memento for Organizing DrishTI online contest 2019 conducted from 2-4-2019 to 6-4-2019 by Texas Instruments India University Program.
- Got Best Paper Award for The Paper entitled Analysis of Inertial sensor data using Trajectory recognition Algorithm in ICIECE-2016 Organized by University college of Engineering, JNTUK Vizianagaram, AP, India.

7. Motto: Hard work makes anyone perfect.