

CURRICULUM VITAE

DR. SANTOSH.M.NEJAKAR,**B.E.,M.Tech.,Ph.D.,MTIE.**

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CAREERVISION

“To become well-known respected teacher to change the life of student for better, by educating them technically, ethically and professionally, this meets institute and industrial requirements”

QUALIFICATION AND EXPERIENCE

- Awarded in the year 2021
Ph.D.-
Title “Design and Implementation of Network Based Routing Algorithm suitable for 5G System” - From Vishveshvaraya Technological University, Belagavi. Karnataka) Supervisor Dr. P G Benakop, Principal Methodist College of Engineering and Technology, Hyderabad.
- 2013
M.Tech. (Digital Electronics and Communication Systems) First Class – From ECE Dept, JNN College of Engg, Shivamogga, Vishveshvaraya Technological University, Belagavi. Karnataka
- 2008
B.E. (E&CE) First Class – From Shri Devi Institute of Engineering and Technology, Tumkur. Karnataka.

EXPERIENCE: Total Teaching Experience=12 years

Organization	Designation	Duration
Jain Institute of Technology, Davanagere	Associate Professor & Head, Department of EEE.	Feb 2022 to Till Date
GM Institute of Technology, Davanagere	Associate Professor	October 2021 to Feb 2022
Don Bosco Institute of Technology, Bangalore	Assistant Professor	June 2015 to October 2021
Sanjay Ghodawat Institutes Kolapur	Assistant Professor	July 2013 to April 2015
Govt Engineering College, Haveri.	Lecturer	August 2008 to Jul 2011

SUBJECTS TAUGHT FOR UG and PG

Embedded Systems, Circuit Simulations, Matlab, and Mobile Communications, CMOS2, Analog Electronic Circuits

TECHNICAL SKILLS

Languages: C and Matlab.

Tools: Keil, Protius, Pspice, Mentor graphics and LaTeX.

ADMINISTRATIVE EXPERIENCE

- **HOD, EEE, Dean IP Cell and Coordinator NAAC Jain Institute of Technology, Davanagere.**
- **External Expert Member for the Board of Studies (ECE) Sri Jagadguru Murugarajendra University, Chitradurga.**
- **Central Coordinator NAAC, NBA and IIC, GM Institute of Technology, Davanagere**
- **Chief Coordinator Intellectual Property Rights Cell, Don Bosco Institute of Technology, Bangalore.**
- **Departmental Coordinator for NAAC and NBA in Electronics & Communication department, Sanjay Ghodawath Institutions, Kolhapur**
- **Central Coordinator IUCEE and IPR Cell, Sanjay Ghodawath Institutions, Kolhapur.**
- **NAAC and NBA Coordinator Don Bosco Institute of Technology, Bangalore.**
- **VTU Examination Flying Squad member Dec 2017/Jan 2018.**
- **Chief Coordinator for NIRF and ARIIA Institutional ranking framework.**

SEMINAR/WINTER/SUMMER SCHOOLS ATTENDED

- **January 09-January 13**
Three days workshop on “Engineering Educator Certification Program” Conducted by IUCEE and Organized by BMS Institute of Technology Bangalore.
- **September 05–September 07, 2014**
Two days “Workshop on,, Software Defined Radio“ Organized by PESITM Shimoga.
- **July 10-20, 2014**
Ten Days workshop on,, Cyber Security” held at IIT Bombay.
- **Aug 11-12, 2011**
International Joint Colloquium on Emerging Technologies in Computer Electrical

- andMechanical-CAM2011.
- Nov12-13,2013
Workshop on “SPSS Application through Practicals” organized by Faculty of Management under the Shivaji University Lead College Activity.
 - Jun12-13,2014
One Day Workshop for Teaching Staff on “Need for Quality in the System of Higher Education” held at SGI Athigre.
 - Jul 22nd – 23rd, 2015
Two Day Faculty Development Programme on Personality Development held at Don Bosco Institute of Technology, Bangalore.
 - May14th2018
One day workshop on “ New Model Curriculum for first year BE –CBSE detailed syllabus as per OBE format including Cos and looms Taxonomy under TEQIP 1.3 held at MSRIT, Bengaluru organized by VTU Belagavi.
 - Jun13-15,2019
Three Day Training on “ Intellectual Property Rights and Prior art search” held at KSCST, IISc campus, Bangalore.
 - Jun17-21,2019
Five Day Faculty Development On “Wireless Networks –A smart city perspective” held at Dept of ECE, BMSC College of Engineering, Bangalore.
 - July29-August 1,2019
Five Day Faculty Development On “Outcome Based Education” held at Dept of ECE, Don Bosco Institute of Technology, Bangalore.
 - September30th& October 1st2019
Two Day National workshop on Information Literacy Tools, Technology and Educational e-Resources for Academic Excellence held at DBIT, Bengaluru.
 - August 16th 2022
IIC Regional Meet organized by AICTE held at Reva University, Bengaluru.

AWARDS/APPRECIATION RECEIVED

- Received Prestigious **KSCST IP Award and Reward 2021** in appreciation and recognition of my contribution in the field of **Intellectual Property Rights (IPRs)** under the faculty category from **Karnataka State Council for Science and Technology An autonomous S & T organization under Department of Science & Technology, Government of Karnataka.**
- Received Appreciation Letter from Principal DBIT, for organizing the program VTU – TEQIP 1.3 Sponsored training program on “OBE & NBA Accreditation.
- Received Appreciation Letter from Principal DBIT, for Establishment of IP Cell in association with KSCST, IISc Campus Bengaluru. As per the directions of

Executive Director, DBIT, Bengaluru.

- Received Appreciation Certificate and Medal from Principal DBIT, for securing 100% result in 2018-2019 academic year.
- Received Appreciation Letter from Principal DBIT, for planning and organizing Visma y 2018

PAPER PUBLICATIONS

1. **Santosh M Nejakar** and Prof H K Harish “**Design and Development of IR Remote Controller for Multiple Home Appliances**” has been presented in **6th IETE Conference on RF & Wireless (Icon RFW-13)** organized by IETE Shimoga sub centre in association with IETE Bangalore and JNNCE Shimoga during on 9th to 11th May 2013.
2. **Santosh M Nejakar** and Pruthvi S (2013) titled “**Wireless Infrared Remote Controller for Multiple Home Appliances**” in *International Journal of Electrical and Electronics Research (IJEER)*, Vol 2, pp(25-35), Month: January-March 2014, Available at: www.researchpublish.com
3. **Santosh M Nejakar** and Prabhu. G. Benakop (2014) “Generalized Frequency Division Multiplexing: (GFDM) Based Prototype for 5G Cellular Communication”. IEEE-Xplore.
4. **Santosh M Nejakar** and Sharanabasappa R R (2014) titled “**Development of Modified RED AQM Algorithm in Computer Network for Congestion Control**” in *International Journal of Innovative Research in Advanced Engineering (IJIRAE)* Volume 1, Issue 8, September 14, Available at: www.ijirae.com.
5. **Santosh M Nejakar** and Dr. P G Benakop titled “**Orthogonal Frequency Division Multiplexing Modulation Scheme for 4G/5G Cellular Network**”. *EJAET* **2015, 2(3): 46-50. ISSN: 2394-658X. Available online www.ejaet.com.**
6. **Santosh M Nejakar** and Dr. P G Benakop titled “**A Survey of the Challenges and Opportunities towards Next Generation 5G Technology**” Grenze Scientific Society ID: 02.ICCTEST.2017.1.133 Page(s): 762-771.
7. **Santosh M Nejakar** and Dr. P G Benakop titled “**A Survey of the Challenges and Opportunities towards Next Generation 5G Technology**” Grenze International Journal of Engineering and Technology, Volume 3, Issue 3, July 2017, Grenze ID: 01.GIJET. 3.3.133

8. RENUKAPRASAD.G,ShashikiranBSand**SantoshNejaka**rtitled”**AHighCompetence ClassABC MOSPower AmplifierforWirelessApplications”IJREAS**(Vol. 7 Issue 5, May-2017, pp. 37~45 ISSN (O): 2249-3905, ISSN(P): 2349-6525 [ImpactFactor:7.196|ThomsonReutersResearcher ID: L-5236-2015).
9. **Santosh M Nejakar and Dr. P G Benakop and S C Biradar** titled “**Energy EfficientRoutingTechniquein5GNetworks**”hasbeenpresentedinNationalConference on CommunicationandDataScience(NCCDS-2019)OrganizedbyGSSSinstituteofengineeringand technologyforwomen,Mysuru on 26thApril2019.
10. **Santosh M Nejakar and Dr. P G Benakop** titled “**Energy Efficient Routing Protocolfor Improving Lifetime in 5G Network**” *International Journal of Recent Technologyand Engineering* (IJRTE), **Scopus Indexed Journal**, ISSN: 2277-3878, Volume-8, Issue-1C, May2019. Page(s):262-267
11. **Santosh M Nejakar, Dr. Mallikarjun P Y and Dr. S C Biradar** titled“**Activity BasedTeaching Learning Method For Improving Quality In Engineering Education**” hasbeen presented in 48th ISTE National Annual Faculty Convention - 2019 on “TechnicalEducation for Smart Society” Organized by Visvesvaraya Technological University –Belagavi,KARNATAKA,on 19-20March,2019.
12. **Santosh M Nejakar and Dr. P G Benakop and S C Biradar** “**Filtered-OrthogonalFrequencyDivisionMultiplexingTechniquefor5thGenerationMobileC ommunication**”*InternationalJournalofInnovativeTechnologyandExploringEngineeri ng* (IJITEE), **Scopus Indexed Journal**, ISSN: 2278-3075, Volume-8, Issue-12,October 2019, Page(s):3763-3767.
13. **SantoshMNejakarandDr.PGBenakopandSCBiradar**“**SimulationandPerformanc eAnalysisofPDSCHin5GNR**”WAFFEN-UNDKOSTUMKUNDEJOURNAL **Clarivate Analytics, Web of Science and SCI Index Expanded Journal**ISSNNO:0042-9945,Volume XI,IssueIII,March 2020, Page(s):95-101
14. **Santosh M Nejakar, et al**“**Raspberry Pi Based Smart Refrigerator to Recognize Fruits and Vegetables**”Lecture Notes in Electrical Engineering, vol 783. Springer, Singapore. https://doi.org/10.1007/978-981-16-3690-5_100Page(s):1055-1065.
15. **Santosh M Nejakar, et al**“**Performance analysis of machine learning algorithm of detection and classification of brain tumor using computer vision**”Advances in Engineering Software, 173(2022) 103221publisher- Elsevier. Volume-173, August 2022, <https://doi.org/10.1016/j.advengsoft.2022.103221>, **Scopus Q1 rated, SCI and Web of Science indexed journal**. Page(s): 103221

GoogleScholarCitation:(citations=37,h-index=4andi10index=2).

VidwanID: 216187

WORKSHOPS CONDUCTED

- As Organizing Chair Successfully conducted International Conference on Innovation Engineering – ICIE-2022 at Jain Institute of Technology, Davanagere on June 3rd 2022
- Successfully conducted two day workshop on **“Intellectual Property Rights and Patents”** funded by MHRD and DeiT.
- Successfully conducted one day workshop on CIRCUIT SIMULATION for third year students.
- As chief coordinator of DBIT-IPR Cell, Successfully conducted Two Day National workshop on **“Intellectual Property Rights”** in Association with KSCST, Bangalore.
- As chief coordinator of DBIT-IPR Cell, Successfully conducted One Day National webinar on **“Intellectual Property Rights”** in Association with KSCST, Bangalore.

PROJECTS GUIDED/SPONSORED PROJECTS

- Received fund of 50 lacks from AICTE Margadarshak Scheme.
- Successfully submitted the proposal to Atal Innovation Mission for the setup of Atal Incubation Centre at Jain Institute of Technology, Davanagere. For the financial grant of Rs. 7.5 Cr.
- Successfully submitted the proposal to VGST for the financial grant of 28 Lakhs during the year 2021-2022 for Smart Grid lab setup.
- Successfully completed AICTE funded project **“Center for Advanced Computer Communication”** during the year 2008-09 at GEC, Haveri, Karnataka
- Seven BE (E&C) projects were sanctioned and financed by Karnataka State Council for Science & Technology, Bangalore.
- Two M.Tech Project were sanctioned and financed by Universal Electronics, Bangalore
- Four BE (E&C) projects were sanctioned in 43rd series SPP and financed by Karnataka St

ate Council for Science & Technology, Bangalore. In the year 2020.

- Received fund of 1.9 lacks from TEQUIP VTU, for organizing the program VTU–TEQUIP 1.3 Sponsored training program on “OBE & NBA Accreditation.
- Eighteen BE projects were sanctioned in 44th series SPP and financed by Karnataka State Council for Science & Technology, Bangalore. In the year 2021.

INVITED TALKS

- As resource person for one day workshop on “Circuit Simulation and PCB Design” held on March 19, 2015, Organized by Dept of ETC, BIMAT, Kagal.
- As resource person for one day workshop on “PCB Design using Protius” held on February 27, 2015, Organized by Dept of ECE, AITM, Belagavi.
- As resource person for Five Day Faculty Development Program on “**Outcome Based Education**” held on 29th July 2019 to 2nd August 2019 Organized by Dep^t of ECE, Don Bosco Institute of Technology, Bengaluru.
- As resource person for Three Day Student Development Program on “**Opportunities for Entrepreneurs and Schemes for Startups**” held on 07th November 2019 to 09th November 2019 Organized by Dep^t of ECE, Vivekananda Institute of Technology, Bengaluru.
- As resource person for the One day workshop on “**Intellectual Property Rights**” organized by the **Govt. of India, Ministry of Micro Small & Medium Enterprises**, MSME Development Institute (Br) Gulbarga. In association with Dist. Industries Centre Bidar, and Bidri & Jewellery Cluster, Bidar on 20th November 2019.
- As resource person for Three Day Student Development Program on “**Opportunities for Entrepreneurs and Schemes for Startups**” held on 17th February 2020 to 19th February 2020 Organized by Dep^t of ECE, Vivekananda Institute of Technology, Bengaluru.
- As resource person for the Three day webinar on “**Intellectual Property Rights in Engineering Education**” organized by the **ATME, Mysore**, on 29th – 31st July 2020.
- As resource person for the Three days Faculty Training Program on “**Intellectual Property Rights**” organized by the University of Agricultural Science, Raichur on 24 to 26 February, 2021.
- As resource person for the One day Faculty Training Program on “**Intellectual Property Rights**” organized by Don Bosco Institute of Technology,

Bangalore on April, 2022.

PATENTS AND INVENTION DISCLOSURES

Patent filed in the year 2015 entitled “*Footwear Durability Testing Machine*” Application Number-0187/CHE/2015 dated 03.01.2015.

Patent filed in the year 2020 entitled “*11ghz Radio Transceiver Architecture With F-OFDM And 128 QAM Modulation For 5g Mobile System*” Application Number-2020411038431 dated 03.09.2020.

Patent filed in the year 2020 entitled “*Raspberry Pi Based Smart Refrigerator to Recognize Fruits and Vegetables Remotely*” Application Number-202041047218 dated 29.10.2020.

Patent filed in the year 2020 entitled “*An efficient approach for traffic congestion and management using IOT devices*” Application Number-202041047230 dated 29.10.2020.

Patent filed in the year 2020 entitled “*An intelligent system with gesture control to aid hearing and speech disabled people*” Application Number-202041048106 dated 04.11.2020.

Patent filed in the year 2020 entitled “*Artificial Speaking IoT Based “Talking Hand” An Assistive Device for Dumb People in Regional Language Kannada*” Application Number-202041051443 dated 26.11.2020.

Patent filed in the year 2020 entitled “*Artificial Intelligence IoT Based Eye Gaze Controlled Robot for Person with Dysarthria*” Application Number-202041054189 dated 14.12.2020.

Patent filed in the year 2020 entitled “*Palm, Sole (Foot) and Hip Massage Base Plate with Rolling Steel Balls*” Application Number - 202041057081 dated 01.01.2021, **Patent Published** with Application Number - E-12/6/2021/CHE.

Patent filed and Published in the year 2021 entitled “*Artificial Intelligence IoT Based Wrist Band for COVID-19 Patients*” Application Number-202141003024 dated 22.01.2021.

Patent filed and Published in the year 2021 entitled “*AI Based Crop Yield Prediction with Efficient use of Fertilizers Using IOT*” Application Number-202141007297 dated 22.02.2021.

Patent filed in the year 2021 entitled “*Artificial Intelligence Raspberry Pi Based Indoor Positioning System Enabled Mobile Vehicle For Warehousing And Industrial Applications Using Iot*” Application Number-202141013901 dated 29.03.2021, **Patent Pending**”

Patent filed in the year 2021 entitled “Artificial Intelligence Iot Based RespirationRate, Oxygen Volume and Sleep Monitoring Wearable Device for Covid Patients UsingSensors”

ApplicationNumber -
202141029724dated02.07.2021,,**PublishedwithJournalNumber -**
29/2021JournalDate:-16.07.2021-IndianPatentOffice“

International Patent filed in the year 2021 (Australian Patent) entitled “ArtificialSpeaking IoT Based “Talking Hand” An Assistive Device for Dumb People in RegionalLanguage Kannada”

ApplicationNumber-2021103792dated01.07.2021.Granted

InternationalPatentfiledintheyear2021(AustralianPatent)entitled “RealTimeTraf fic Management System Using Machine Learning and Image Processing”ApplicationNumber-2021105151dated09.07.2021. Granted

InternationalPatentfiledintheyear2021(AustralianPatent)entitled “AIBasedSmartM eterforWaterUtilizationand Quality Monitoring UsingIoT”

ApplicationNumber-2021105151dated09.07.2021. Granted.

Patent filed in the year 2021 entitled “AI- Based Advanced Technique to Treat Domestic Sewage in Water Bodies and Real Time Monitor Using Sensor Integrated USV (Unmanned Surface Vehicle).”ApplicationNumber -

202141049532dated02.11.2021,**PublishedwithJournalNumber -**
46/2021JournalDate:-12.11.2021-IndianPatentOffice.

VIDEOLECTURE

- **“Intellectual Property Rights in Engineering Education”**https://www.youtube.com/watch?v=gcuS_O_gvMo&t=311s

PERSONALPROFILE:

Name : **SANTOSH MNEJAKAR**

DateofBirth : 25thSeptember 1986

PresentPostHeld : **Associate Professor & Head Dept of EEE, Jain Institute of Technology Davanagere**

FormerPost Held : **Associate Professor in ECE GM Institute of Technology Davanagere**

PresentResidenceAddress : **SantoshMNejekar**

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Office,Haveri-
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REFERENCES

- **Dr. PrabhuG Benakop**, Research Guide, Principal, Methodist College of Engineering and Technology, Hyderabad. E-mail: pgbenakop@icee.org. Mobile: +916302657973.
- **Dr. Manjunath P**, Principal and Professor, Dept of ECE, JNNCE, Shivamogga. E-mail: manjup.jnnce@gmail.com. Mobile: +919964378365.
- **Dr. V A Raikar**, Ex-Vice Chancellor, Sanjay Ghodawath University, Kolhapur. E-mail: var312@yahoo.com. Mobile: +919011039811.

I hereby declare that the above-mentioned information is correct to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Date:

Haveri

Signature