




K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Road, Bangalore-560109.

Faculty Name	Dr P N Sudha	
Designation	Dean Academic, Prof & Head ECE dept	
Educational Qualification	M.Tech PhD	
Experience in Years	24	
Areas of Interest	Wireless Communication, Underwater Communication, Cryptography	
E-mail	Pnsudha@ksit.edu.in	

Educational Details

Examination/ Degree	College / University	Year of Passing
B.E. Electronics & Communication	Vijayanagar Engineering college Bellary , Karnataka Gulburga University	1997
M.Tech Digital Electronics	B.V.B . College of Engineering Hubli , Karnataka VTU	2002
PhD	JNTU Anantapur A.P and awarded during	Dec 2013.

Publications

Journal Publications:

International Journals Published:

1. P.N Sudha, Chanda V Reddy "**Proposed method for handover in mobile network using fuzzy logic**" International Journal on Information Science & Computing in Vol.2 pp-53-58 , July 2008
2. P.N Sudha, Dr U.Eranna "**Proposed source and channel coding techniques for memory channels**" in International Journal of Communication Engineering Applications, volume 02 on July 2011, pp.194-198.Impact factor:1
3. P.N Sudha, Dr U.Eranna "**Improving transmission rate and S/N ratio in mobile communication**" in International Journal of Graphics and Image Processing volume 01, issue 2 on November 2011, pp.226-229.Impact factor:2
4. P.N Sudha, Dr U.Eranna "**Joint source and channel coding techniques for voice communication**" in International Journal of Communication Engineering Applications, volume 03 on Jan 2012, pp 417-420.Impact factor:1

5. P.N Sudha, Dr U.Eranna "**Speech coding and adaptive channel coding technique for memory and memoryless channels**" in International Journal on Information Sciences & Computing. Vol.6 Jan 2012 pp.48-51, Impact factor:2
6. Devika B, P. N. Sudha "Literature Survey on Optimization of Power in Ad hoc Networks" International Journal of Advanced Research in Computer Science and Engineering(IJARCSSE) Journal; Volume: 5; Issue: 8: Edition with Effect from 27th August, 2015; ISSN: 2277 128 X. March 2015 pp.239-241.Impact factor:1.492
7. PRATHIMA B A, SUDHA P N, SURESH P M, "**Proposed methodology for auto error correction and detection for closed loop manufacturing using embedded system**" International journal of current research, Vol 7,Issue 9, Sep-2015,pp.20519-20523.Impact factor:7.086
8. Dr. P.N Sudha, "**Proposed Adaptive Channel coding technique for underwater Communication**" in International Journal of Innovative Research in Technology & Science, Volume 4, Issue 1, Jan 2016,pp.27-29. Impact factor:2.236 ISSN:2321-1156
9. Sangeetha, V. and Dr. Sudha, P. N." **Proposed algorithm: a novel approach to minimize the effect of fading using adaptive channel coding & multi carrier modulation techniques- a survey** " in International Journal of Current Research Vol. 8, Issue, 01, pp.25246-25249, January, 2016
10. Dr P N Sudha, "**Proposed algorithm to minimize multipath fading and ISI for underwater communication**" is published in the proceeding of International Conference on Electrical, Electronics and Optimization Technique-IEEE-ICEEOT-2016 with IEEE catalog 978-1-4673-9939-5/16/\$31.00 ©2016 IEEE, DOI: [10.1109/ICEEOT.2016.7755180](https://doi.org/10.1109/ICEEOT.2016.7755180), pp-2069-2071.
11. Devika B, P. N. Sudha "**Fisheye state Protocol in Correlation with Power in Ad hoc networks**" International Journal in International Journal of Applied Engineering Research"(IJAER), volume no13, number 17, pp. 13335-13339, ISSN 0973-4562 Online ISSN0973-9769,2018
12. Rama murthy. N, P.N.Sudha, "**Smart Navigation System for Visually Challenged**" International Journal of Industrial Electronics and Electrical engineering ISSN : 2347-6982 Pg No.45-47
13. **Sahana Salagare, P. N Sudha, Karthik P "A Survey on Applications and Challenges of Underwater Wireless Sensor Node in** International Journal of Engineering Trends and Technology (IJETT),Vol-41,Issue4, pp.201-204, Nov2016 ISSN:2231-5381. <http://www.ijettjournal.org>
14. SRIVIDYA L AND DR. P.N. SUDHA, ".**LITERATURE SURVEY ON RECENT AUDIO ENCRYPTION TECHNIQUES**". International Journal of Electronics and Communication Engineering & Technology (IJECET).Volume:7, Issue:6, Pages:91-95 . **ISSN Print:** 0976- 6464 **ISSN Online:** 0976 –6472, Journal Impact factor 8.269.
15. Navya. R Dr P.N.Sudha "**An automatic Wireless Multimedia Communication System to Detect accident of Vehicle and Mobile Telemedicine System**" International Journal of Innovative Research in science Engineering and Technology [IJIRSET] vol. 6 issue 3 March 2017, pg No1111-1116.DOI 10.15680
16. Cristo Jain, Manju V C , P N Sudha "**Real Time Smart Wireless Power Transfer System for Small Scale Application Using aerial Projector**" published in International Journal of Computer Applications Pg No.28-31 and ISBN 0975-8887.
17. Devika B, P. N. Sudha "**Power Optimization in MANET using Topology Management**" published in Engineering Science and Technology, an International Journal,Volume 23, Issue 3, Pages565-575,ISSN 22150986, ELSEVIERBV, 2019.

18. Srividya ,Dr. P N Sudha, "**Physical Layer Secret Symmetric Key Generation and Management Techniques for Wireless Systems-A Study**" published in JASC: Journal of Applied Science and Computations Volume VI, Issue II, February/2019 ISSN NO: 1076-5131 PP No.136-141
19. Skanda H N, Smitha S Karanth, Suvijith S , Swathi K S ,Dr. P N Sudha "**IOT BASED CAMOUFLAGE ROBOT**" **published in** Journal of Emerging Technologies and Innovative Research[JETIR] March 2019, Volume 6, Issue 3,ISSN-2349-5162,PP No. 237-239
20. Anurag Reddy R, Ankita A Raikar, Harsha N, Kishore Bhat U, Dr. P N Sudha "**WATCHDOG FOR ATM**" published in Journal of Applied Science and Computations Volume VI, Issue IV, April/2019 ISSN NO: 1076-5131 PP No .2965-2969
21. Skanda H N, Smitha S Karanth, Suvijith S , Swathi K S ,Dr. P N Sudha "**IOT BASED CAMOUFLAGE ARMY ROBOT**" published in Journal of Applied Science and Computations Volume VI, Issue V, May/2019 ISSN NO: 1076-5131 pp No.2614-2619.
22. Devika B, P. N. Sudha "**Power-Cognizant Proactive Routing Protocol for Amending Energy in Ad hoc Networks**" pp 152-159, ICDSMLA 2019, online ISBN 978-981-15-1420-3. 19 May 2020. will be published in" Springer Briefs in Applied Sciences and Technology" ISSN: 2191-530X, (Indexed in SCOPUS, UGC, Springer link & Major AI) SPRINGER.
23. Prathima B A, Sudha P N & Suresh P M (2020)" **Shop floor to cloud connect for live monitoring the production data of CNC machines,**" International Journal of Computer Integrated Manufacturing, 33:2, 142-158, DOI: 10.1080/0951192X.2020.1718762 To link to this article: <https://doi.org/10.1080/0951192X.2020.1718762>, Publicahed by Taylor & Francis Publication.
24. Anurag Reddy R, Ankita A Raikar, Harsha N, Kishore Bhat U, Dr. P N Sudha "**WATCHDOG FOR ATM**" published in Journal of Applied Science and Computations Volume VI, Issue VI, JUNE/2019 ISSN NO: 1076-5131 PP No .629 to 635
25. Kadri Srinidhi Rao, Jeevitha Kalaashilpa N C, Bhagya Shree S J, Ashwini S, Dr P N Sudha "**Literature Survey on A Bore Well Rescue Bot** " published in "International Journal of Latest Engineering and Management Research (IJLEMR)" ISSN: 2455-4847 www.ijlemr.com , Volume 05 - Issue 05, May 2020 , PP. 05-08
26. _Abhishek A Nandyal, Adithya D M, Karthik K, Manikantan G," **A Literature Survey On "Unmanned Underwater Vehicle For Monitoring Aquatic Ecosystem"** published in *International Journal of Engineering Applied Sciences and Technology*, 2020 Vol. 5, Issue 2, ISSN No. 2455-2143, Pages 599-601.
27. Abhishek A Nandyal, Adithya D M, Karthik K, Manikantan G, "**UNMANNED UNDERWATER VEHICLE FOR MONITORING AQUATIC ECOSYSTEM**" published in *International Journal of Engineering Applied Sciences and Technology*, 2020 Vol. 4, Issue 11, ISSN No. 2455-2143, Pages 493-497.
28. V Sangeetha, P.N. Sudha, "**Analysis of Bit Error Rate on M-ary QAM over Gaussian and Rayleigh Fading Channel**" published in "International Journal of Innovative Technology and Exploring Engineering (IJITEE)" ISSN: 2278-3075, Volume-9 Issue-6, April 2020
29. Kadri Srinidhi Rao, Jeevitha Kalaashilpa N C, Bhagya Shree S J, Ashwini S, Dr P N Sudha "**Rakshak - A Bore Well Rescue Bot**" **published in** International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150 Vol-06, Issue-03, June 2020.

30. Devika B, P. N. Sudha **“Chronological-Squirrel EarthWorm optimization for power optimization using topology management”** International Journal of Advanced Research in Engineering and Technology (IJARET)-SCOPUS Indexed journal ID: 2120-0201, 2020. (Accepted).
31. Navin Kumar H.G, Navya S, Pratima Agnihotri, Pratima V Kashyap, Dr P N Sudha” **Literature Review On Hybrid Temperature Sensing And Monitoring System With Built In Sanitizer”** International Advanced Research Journal in Science, Engineering and Technology Vol. 7, Issue 12, December 2020, DOI 10.17148/IARJSET.2020.71213.
32. **Dr. P N SUDHA, H G SRINIDHI, ABHISHEK K V, ANUSHRI V K, BHOOMIKA P K “IR Underwater wireless Communication”** International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 08 Issue: 04 | Apr 2021 www.irjet.net p-ISSN: 2395-0072.
33. ABHISHEK. V , AKASH.R , DR. P. N. SUDHA **“Automatic Plant Watering System Using Arduino”** International Journal of Innovative Research in Technology, Vol,8, No. 3, 2021, ISSN: 2349-6002.
34. A N Bhoomika Chowdary , Charan G , Dr P N Sudha **“ The design, modeling, construction and implementation of Self-balancing robot”** International Advanced Research Journal in Science, Engineering and Technology, Vol,8, No. 6, 2021, ISSN: 2393-8021
35. Navin Kumar H.G, Navya S, Pratima Agnihotri, Pratima V Kashyap, Dr P N Sudha **“Hybrid Temperature Sensing and Monitoring System With Built In Sanitizer”** International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150 Vol-07, Issue-04, JULY 2021.
36. **Dr. P N Sudha , Suraj V Ghorpade , Thanushree D , Vaishnavi G , Vrindha Sham Bhatt “A Smart Wheel for Aged People with Health Monitoring System”** International Journal Of Innovative Research In Techn April 2022| IJIRT | Volume 6 Issue 11 | ISSN: 2349-6002
37. Rahul Krishnan V, Sumukha S, Tarun Prasanna³, Tejas N Reddy, Dr. PN Sudha **“Color Sorting Robotic International Advanced Research Journal in Science, Engineering and Technology ISO 3297: Certified Impact Factor 8.066,Vol. 10, Issue 6, June 2023 DOI: 10.17148/IARJSET.2023.10694 Page 566-571**
38. Charan G, Ganesh P, Dheeraj M S, Dr. P N Sudha, **“Survey on Real Time Fruit Detection and Classification using Image Processing and Convolution Neural Network”**, International Journal of Innovative Research in Technology, April 2022 | IJIRT | Volume 8 Issue 11 | ISSN: 2349-6002
39. **RadhaKrishna L, Rajalakshmi S,, Shreyas Gowda,, Dr. P.N Sudha” FRUIT CATEGORIZER USING pH SENSOR”** International Advanced Research Journal in Science, Engineering and Technology ISO 3297:2007 Certified Impact Factor 8.066, Vol. 10, Issue 4, April 2023 DOI: 10.17148/IARJSET.2023.10423
40. **Srinivas S, Shreyas VB, Sriram,, Vishnuraata P.Y, Dr. PN Sudha” IoT based School Bus Monitoring System”** International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue V May 2023.
41. Eshwar Biradar, Kiran Dev D, Kusuma V.R, Mahesh Biradar, Dr. PN Sudha” **WIRELESS NOTICE USING BLUETOOTH MODULE HC-05”**, published in International Advanced Research Journal in Science, Engineering and Technology ISSN (O) 2393-8021, ISSN (P) 2394-1588, Vol. 10, Issue 6, June 2023. Page no:578-581

42. Sahana Salagare , Pattipati Naga Sudha , Karthik Palani” **Development of renewable energy system for low power underwater devices**” Indonesian Journal of Electrical Engineering and Computer Science Vol. 31, No. 1, July 2023, pp. 68~76 ISSN: 2502-4752, DOI: 10.11591/ijeecs.v31.i1.pp68-76. DOI: <http://doi.org/10.11591/ijeecs.v31.i1.pp68-76>.

National level

43. P.N Sudha, Chanda V Reddy, K. Senthil Babu, Dr U.Eranna “**Proposed method to Overcome Nearfar Effect in CDMA Technology using Fuzzy logic**” at National Conference on Communication Networks and Security, May -2010,pp. 189-194.
44. Navya R, Dr P.N. Sudha “**Smart Wireless automatic collision detection of Vehicle and mobile telemedicine System** at National conference on recent trends and applications in Electrical & Electronics Engineering [NCRТАЕЕЕ] held on 10th -12th May 2017 at KSIT Bangalore. Pg no. 7-12.
45. ARJUN S D, AKSHAY H.B SRIVATSA, AKSHAY KUMAR P, VIJAYKUMAR B.H MATH Dr P N Sudha “**Auto solar tracking for better yielding green house using GSM**” at National conference on recent trends applications in Electrical & Electronics Engineering [NCRТАЕЕЕ] held on 10th -12th May 2017 at KSIT Bang Pg no. 28-32.

BOOK CHAPTERS

1. Srividya L., Sudha P.N. (2020) “**Secrecy Capacity of Symmetric Keys Generated by Quantising Channel Metrics Over a Fading Channel.**” In: Smys S., Bestak R., Rocha Á. (eds) Inventive Computation Technologies. ICICIT 2019. Lecture Notes in Networks and Systems, vol 98. Springer, Cham. https://doi.org/10.1007/978-3-030-33846-6_45
2. Devika B, P. N. Sudha “Power-Cognizant Proactive Routing Protocol for Amending Energy in Ad hoc Networks” pp 152-159, ICDSMLA 2019, online ISBN 978-981-15-1420-3. 19 May 2020. will be published in” Springer Briefs in Applied Sciences and Technology” ISSN: 2191-530X, (Indexed in SCOPUS, UGC, Springer link & Major AI) SPRINGER.https://link.springer.com/chapter/10.1007/978-981-15-1420-3_17
3. Devika, B., Sudha, P.N. (2022). Chronological-Squirrel Earth Worm Optimization for Power Minimization Using Topology Management in MANET. In: Majhi, S., Prado, R.P.d., Dasanapura Nanjundaiah, C. (eds) Distributed Computing and Optimization Techniques. Lecture Notes in Electrical Engineering, vol 903. Springer, Singapore. Page no: 219-230 https://doi.org/10.1007/978-981-19-2281-7_21

Conference Papers :

Papers presented in International and National Conferences:

1. P.N Sudha, Dr U. Eranna “**Speech Compression & Error Correction for mobile communication System**” at IETE, BANGALORE. pp20 ,26th APRIL 2008 . Impact factor: 0.375

2. **P.N Sudha, Dr U.Eranna "A method for improving the throughput in wireless Networks"** A National Conference on Next Generation Wireless Networks at R.V.COLLEGE OF ENGG on 16th&17th May- 2008.
3. **P.N Sudha, Dr U.Eranna "Proposed method to overcome nearfar effect in CDMA technology using Fuzzy logic "**National conference on COMMUNICATION NETWORK & SECURITY at R.V.College of.Engg. pp-189 on 17th May-2010.
4. **P.N Sudha, Dr U.Eranna "Proposed method for effective source & channel coding for communication system"** at IETE, BANGALORE centre on 7th to 9th Oct 2010.Impact factor: 0.375
5. **P.N Sudha, Chanda V Reddy, Dr U.Eranna "Proposed method for effective Source & Channel coding for Communication system in CDMA technology using Fuzzy logic"** International Conference on Mobile Internet devices ICMID-2010 17th,18th Dec-2010
6. **P.N Sudha,, Dr.U.Eranna "Effective coding techniques & to initiate handoff using fuzzy logic in wireless communication"** in International Conference on Frontiers of Computer Science, Bangalore on 7th to 9th Aug-2011.
7. **P.N Sudha, Dr U.Eranna "Source and adaptive channel coding techniques for mobile communication"** presented in workshop of ICT, SoftCOM 2012. Co-sponsored by the IEEE Communication Society held on 11th to 13th Sep. 2012
8. **Nishanth.Y.L, Manoj kumar.G.S, Dr P N Sudha "A wireless Home safety LPG Leakage Detector and Automatic alarm System"** National Conference at KSSEM on 29th April 2015.
9. **Dr P N Sudha, "Proposed algorithm to minimize multipath fading and ISI for underwater communication"** International Conference on Electrical, Electronics and Optimization Technique-IEEE-ICEEOT-2016 held during 3rd Mar to 5th Mar 2016 at Chennai.
10. **Devika, Dr P N Sudha, "Execution of PA Fish Eye State Protocol to Amend Power"** International Conference on Electrical, Electronics and Optimization Technique-IEEE-ICEEOT-2016 held during 3rd Mar to 5th Mar 2016 at Chennai.
11. **Rama Murthy, Dr P N Sudha,"Smart navigation System For Visually Challenged People"** International Conference on Mechanical, Civil, Electronics and Communication and Computer Science Engineering held on 3rd April 2016 organized by BTI in association with IRAJ.
12. **Rama Murthy, Dr P N Sudha, "Smart Navigation system using Ultrasonic sensor for Visually Challenged People"** National conference on Advanced Communication, VLSI Design & Signal Processing Organized by department of ECE ,KSSEM Bangalore on 28th April 2016 .
13. **Manjesh.B , Potla Rajendra, Abhishek.J Ranjith.B.S ,Dr.P.N.Sudha, "Smart and Energy efficient green house Management Using GSM modem"** National conference on Advanced Communication, VLSI Design & Signal Processing Organized by department of ECE ,KSSEM Bangalore on 28th April 2016 .
14. **Navya R, Dr P N Sudha, "Smart Wireless Automatic Collision Detection of Vehicle & Mobile Telemedicine System "** National Conference on Recent trends and applications in Electrical & Electronics Engineering organized by ECE department, KSIT Bangalore from 10th May 2017 to 12th May 2017.
15. **Navya.R, Dr.P.N.Sudha," An automatic wireless Multimedia Communication System to Detect accident of Vehicle & mobile telemedicine System"** International Conference on Computer Science &

Technology Allies in Research organized by CSE department, City Engineering College Bengaluru on 11th May 2017 & 12th May 2017.

16. **Akshaya Kumar. P, Arjun S D, Akshay Srivatsa, Vijay Kumar Math & Dr P N Sudha,** "Automatic Solar Tracking for Better yielding green house using GSM" National Conference on Recent trends and applications in Electrical & Electronics Engineering organized by ECE department, KSIT Bangalore from 10th May 2017 to 12th May 2017.
17. **Prathima B A Dr P N Sudha Dr Suresh P M** "Electronic Sensor for Micron resolution Dimension Measurement" presented paper in International Conference on Electrical, Electronics, Communication Computer Technologies and Optimization techniques organized by GSSSIT Mysuru on 15th and 16th Dec 2017
18. **Jayasudha B S K, P.N. Sudha** "PCG acquisition and analysis for detection of cardiac failures at early stages" International Conference On Bioengineering On Health And Environment (ICBHE'17) 08th-10th January 2018
19. **Sahana Salagare, P. N. Sudha & P. Karthik** "Survey on Energy Harvesting Systems for Underwater Devices" presented paper in International Conference on Advances in Engineering Science and Management On 12th and 13th October 2018 organized by KSSEM Bangalore
20. Ms. Devika ,P N Sudha "Power-Cognizant Proactive Routing Protocol for Amending Energy in Ad hoc Networks" presented paper in ICDSMLA 2019 held on 29th-30th March 2019 organized by CMRIT, Hyderabad
21. **Jayasudha B S K, P.N. Sudha** "PCG analysis for cardiac failures using wavelet tool", 4th International Conference on Science, Agriculture and Technology for society (ICSTS-2019) 13th-15th May 2019.
22. Ms. Srividya, P N Sudha, "PHYSICAL LAYER SECURITY STUDY", paper presentation in National Conference on Electronics and Communication Engineering, 9-11 May 2019 organized by Department of Electronics and Communication Engineering DSCE Bangalore, IEEE-DSCE Student's branch and IEEE women in engineering.
23. **Prathima, B.A., Sudha, P.N. and Suresh, P.M. Mruthunjaya M.,** "Live Production Data Monitoring System in the Context of Industry 4.0", In 4th International Conference on Science and Technology for Society ICSTS-2019 held from 13th -15th May 2019 in EWIT, Bangalore.
24. Ms Srividya, P N Sudha , "Secrecy Capacity of Symmetric key Generated by Quantising channel metrics over a fading Channel" in 4th international conference on Inventive Computation Technologies ICICT-2019 organised by RVS Technical Campus, Coimbatore, India during 29th & 30th Aug 2019: https://doi.org/10.1007/978-3-030-33846-6_45
25. Participated in 6th International Conference on 6th International Conference on Electrical .Computing and Communication Technologies" IEEE CONECCT 2020 organised by IEEE Bangalore Section from 2nd to 4th July 2020.
26. **Prathima, B.A., Sudha, P.N. and Suresh, P.M. Mruthunjaya M.,** "Electronic Gauge for Micron Measurement and its Relevance to Industry 4.0", In 2nd International Conference on Adaptive Computational Intelligence organized by GSSS Institute of Engineering & Technology for Women Mysuru on 15th & 16th Dec 2020.

27. Ms. Devika, Dr P N Sudha "**Chronological-Squirrel EarthWorm optimization for power optimization using topology management in MANET**" in "International conference on Distributed Computing and Optimization technique organized by department of Electronics & Communication Engg.& department of Electrical & Electronics Engg. SJBIT Bangalore during 25th & 26th June 2021
28. Ms. Jayasudha , P N Sudha , "**Machine learning techniques for cardiovascular risk score -prediction**" IEEE MysuruCon 2021-The First Edition of the Flagship International Conference Series of IEEE Mysore Subsection in association with IEEE Bangalore Section hosted by the house of Sri. M S Ramaiah, NAVKIS College of Engineering, Hassan during 24th & 25th October 2021.
29. S. Salagare, P. N. Sudha and K. P, "Comparative Study on Requirements, Applications and Challenges of Low Power Underwater Devices," 2021 IEEE International Conference on Mobile Networks and Wireless Communications (ICMNWC), Tumkur, Karnataka, India, 2021, pp. 1-5, doi: **10.1109/ICMNWC52512.2021.9688423**.
30. Srividya , Dr P N Sudha presented paper titled "**Generation of Simple Symmetric Key Generation Scheme Based on Channel Reciprocity for Wireless Communication**" in fourth International Virtual Conference on Advances in Computing and Information Technology -2022 held on 17th & 18th May 2022 organized by REVA University Bangalore Karnataka
31. Charan G, Ganesh P, Dheeraj M S, Dr. P N Sudha, "**Real Time Fruit Detection and Classification using Image Processing and Convolution Neural Network**", NATIONAL CONFERENCE ON RECENT INNOVATIONS IN ENGINEERING – 2022 | Organized by KS institute of Technology during 23rd & 24th June 2022 and published in the proceeding with ISBN:978-81-929425-0-6 ,Pg. No.:151 - 155.
32. MONISHA B.K , N.ANILA, NIDHI S, NISARGA K Dr P N Sudha "**Fingerprint Based Voting System**" NATIONAL CONFERENCE ON RECENT INNOVATIONS IN ENGINEERING – 2022 | Organized by KS institute of Technology during 23rd & 24th June 2022 and published in the proceeding with ISBN:978-81-929425-0-6 ,Pg. No.: 177-180.
33. Suraj V Ghorpade, Thanushree, Vaishnavi G, Vrindha Sham Bhatt D," **A Smart Wheelchair for Aged People with Health-Monitoring System**" NATIONAL CONFERENCE ON RECENT INNOVATIONS IN ENGINEERING – 2022 | Organized by KS institute of Technology during 23rd & 24th June 2022 and published in the proceeding with ISBN:978-81-929425-0-6, Pg. No.:235-240
34. Srividya.L, Sudha.P.N(2022), "**Generation of Simple Symmetric Key Generation Scheme Based on Channel Reciprocity for Wireless Communication** ",4th international virtual conference on Advances in computing & Information technology(IACIT-2022)

Patents Filed:

- Filed patent for "IoT based Efficient Water Resources Forecasting, Monitoring and Management System" and the application number for the patent application is 202041049792.
- Filed patent for "A PLANT FINDER FOR AYURVEDIC BOTANISTS-A BLENDING TECHNOLOGY ON INDIAS RICH AYURVEDIC LEGACY (ANDROID AND IOS BASED) and the application number for the patent application is 202141016624 and applied on 4th Sep 2021

Awards

- Got **President Award** in Scouting & Guiding
- Got **third rank** in M.Tech (Digital Electronics) in VTU.
- Got best paper award for the paper” **Proposed method to Overcome Nearfar Effect in CDMA Technology using Fuzzy logic**” at **National Conference on Communication Networks and Security** at RVCE.
- Received felicitation for 100% results for the subject Control system for fourth sem in 2015
- Received felicitation for 100% results for the subject Information Theory & Coding for fifth sem in 2016
- Received felicitation for 100% results for RF &MWR for second sem PG in 2016
- Received felicitation for 100% results for Error Control Coding for Fourth sem PG in 2017
- Received felicitation for 100% results for the subject **Information Theory & Coding** for fifth sem in 2017
- Received felicitation for 100% results for the subject **Cellular Communication** for 6th sem 2018
- Received felicitation for 100% results for the subject Control System taught for 4th sem 2018
- Received felicitation for 100% results for the Cryptography taught for 7th sem in 2019.
- Received felicitation for 100% results for the Cryptography taught for 7th sem in 2022
- Received felicitation for 100% results for the Wireless & Cellular Communication taught for 8th sem in 2022
- Received **Best Paper** award for paper titled "Chronological-Squirrel Earth Worm optimization for power optimization using topology management in MANET" in "International conference on Distributed Computing and Optimization technique organized by department of Electronics & Communication Engg .& department of Electrical & Electronics Engg. SJBIT Bangalore during 25th & 26th June 2021.
- Received **Best Paper** award for paper titled “**Generation of Simple Symmetric Key Generation Scheme Based on Channel Reciprocity for Wireless Communication**” in fourth International Virtual Conference on Advances in Computing and Information Technology -2022 held on 17th & 18th May 2022 organized by REVA University Bangalore Karnataka.

Professional Membership

- **ISTE LIFETIME MEMBERSHIP NUMBER: 40471**
- **IEEE MEMBERSHIP NUMBER: 97272799**
- **MEI MEMBERSHIP NUMBER:1584280**

Contact Details

Prof. & Head ECE dept.
K. S. Institute of Technology
Email: pnsudha@ksit.edu.in

