

Name of Faculty Dr. P SATHISH  
 Designation Assistant Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 05 – 06 - 2009  
 E-mail psathish\_ece@cbit.ac.in



**Education Qualifications**

	<b>Name of the Degree</b>	<b>Class</b>
Ph. D	Doctor of Philosophy (ECE)	Awarded
PG	M. Tech. (Embedded Systems)	First /Distinction
UG	B. E. (ECE)	First

**Work Experience**

Teaching	15Years
Research	07 years
Industry	--
Others	--

Area of Specialization Navigation and Communication, Embedded Systems, IoT

Professional Memberships Fellow-IETE (502562), Member-IEEE (92991077), Member-IFERP

Responsibilities held at Institution Level

1. Member, Partner with Energy Swaraj Foundation for “Design of Solar system for Home” Online course
2. Member, various committees for Sudhee/Shruthi from 2010 to till date
3. Member, Carrier Guidance Cell
4. Assistant Controller of Examinations

Responsibilities held at Department Level

1. In Charge for Student Internships,
2. Coordinator for PG-NBA Accreditation 2019-20
3. Coordinator for UG-NBA Accreditation 2020-21
4. In Charge for Makers of India(MoI) Club
5. Member, Course Expert Group
6. Member, Student Achievements
7. In charge for Computer Centre
8. In –charge for Departmental Time-tables from 2011 to 2013.
9. In-charge for Departmental Library from 2009 to 2011.

Research Guidance

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Awards Received

Best Paper Award in Second International Conference on “Emerging Trends In Science & Technologies For Engineering Systems” (ICETSE-2019) Organized by S J C Institute of Technology, Chickballapur, Bengaluru Karnataka in association with Institute of Scholars (InSc)

Courses Handled at Under Graduate / Post Graduate Level.

Microcontrollers and Applications, Embedded Systems, Digital System Design, Computer Organization and Architecture, Real time operating systems, Microcontroller for embedded system design, Advanced Computer Organization

No. of Papers Published

National Journals – 00 International Journals – 09  
 National Conference – 01 International Conference – 09

Projects Carried out

1.Consultancy Project on “ Performance Evaluation of IRNSS in the context of position and velocity” during 2015-2018 Worth of 15 Lakhs-RCI,DRDO, Hyderabad as a Co- Principal Investigator

2.AICTE RPS Project on “Analysis and Mitigation of Doppler Collision events using ML algorithms for NavIC System” during 2022-25 Worth of 19.66 Lakhs as Co- Principal Investigator

Patents --

Technology Transfer --

Invited Speaker

1. Two day FDP on RTOS, conducted by ECE, UCE, OU during 13-14 August 2018
2. AICTE Sponsored Online STTP on “Current Trends and Emerging Advances in Marine Navigation and Communication” conducted by ECE, CBIT during 7-12 December 2020

No. of Books/Chapter Published with details

1. Published one book chapter on “ IoT-Based Smart Farming System Using MQTT Protocol and ML Algorithms ” ISBN: 978-3-030-58675-1, Title of the Book: Handbook of Smart Materials, Technologies and Devices, Springer publisher
2. Published one book chapter on “IoT-Based Medication Reminder Devices: Design and Implementation” ISBN: 978-3-030-58675-1, Title of the Book: Handbook of Smart Materials, Technologies and Devices, Springer publisher
3. Published one book chapter on “ Study of IRNSS Receiver Doppler Positioning in Kinematic Conditions” ISBN: 978-81-947979-4-4, Volume 3, Title of the Book: Recent Developments in Engineering Research

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops.Other Trainings (Attended and/or Organized).

1. Coordinator for webinar on “Placement Guidance and Strategic Plan of MOI” Organised by Dept.of ECE,CBIT in association with Mol and ISF on 25 August 2021
2. Coordinator for webinar on “ Overview of NodeMCU and its IoT Applications” Organised by Dept.of ECE,CBIT in association with Mol and ISF on 5 September 2020
3. Coordinator for Intensive course on “Hands on LabVIEW” under LabVIEW Academy Organised by Dept.of ECE,CBIT,during 21-28 April 2019.
4. Co-coordinator for Panel Discussion on “Mobile and satellite communications” Organised by Dept.of ECE,CBIT on 5 May 2017
5. Successfully completed ATAL one-week offline FDP on “Smart Manufacturing” Organized by Shri G.S Institute of Technology & Science, Indore, during 20-26 July 2022.
6. Successfully completed ATAL one-week online FDP on “Outcome based Curriculum and Examination Reforms” Organized by B.V.V.S.Polytechnic(autonomous),Bagalkot., during 25-29 October 2021.
7. Successfully completed AICTE 6 day online STTP on “High Performance Intelligent Real Time Embedded Systems and Internet of Things to accelerate automation system into autonomous system” Organized by R.M.K Engineering College, Tamil Naidu, during 1-7 September 2020.
8. Successfully completed participated in a 40hour online FDP on “Data Science for all” Jointly Organized by E&ICT academies-NIT Warangal, IIITDM Jabalpur and NIT Patna during 27 July to 8 August 2020
9. Successfully completed a 4-day online FDP on “Python Programming” organized by Dept. of CSE, K L Deemed to be University, Hyderabad in association with IITB spoken tutorials, funded by NMEICT, MHRD, Govt. of India during 15-18 July 2020.
10. Successfully Completed A Hands on Workshop on “The BodhiTree and SAFE Tools for Effective Online Teaching” 20 June 2020 and attended the interaction session and successfully completed both pre and post workshop online activities organised by the Teaching Learning Centre (ICT) at IIT Bombay,funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD, Govt. of India

11. Successfully completed A Hands on Workshop on “Effective and Efficient Online Teaching in the Age of Corona” on 23 May 2020 and attended the interaction session and successfully completed both pre and post workshop online activities, organised by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD, Govt. of India
12. Successfully completed one week FDP on “ Outcome Based Education and NBA Accreditation process(UG) during 28 May to 01 June 2020.Organized by CBIT
13. Successfully completed the online Short Term Training Program on “MATLAB based Teaching-Learning in Mathematics, Science & Engineering” organized by Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai in collaboration with Design Tech Systems Pvt. Ltd. Mumbai during 18-22, May 2020.
14. Successfully completed the online 5 day Short Term Training Program on “Internet of Things and its Application in Industry” organized by Department of Instrumentation Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai and B&R Automation Pune during 08-12, June 2020.
15. Successfully completed One Week Faculty Development Programme on "Entrepreneurship, Incubation and Innovation" from June 23 - June 29, 2020. Organized by Teaching Learning Centre Ramanujan College, University of Delhi Sponsored by MHRD, Pandit Madan Mohan Malaviya National Mission on Teachers and Training.
16. Successfully completed One Week Faculty Development Programme on "Open Source Tools for Research" from June 08 - June 14, 2020. Organized by Teaching Learning Centre Ramanujan College, University of Delhi Sponsored by MHRD, Pandit Madan Mohan Malaviya National Mission on Teachers and Training
17. Successfully completed One Week Inter Disciplinary Faculty Development Programme on "Sahitya, Media, Manovigyan Aur Vanijya Ke Vividh Aayam" from May 29 - June 03, 2020. Organized by Teaching Learning Centre Ramanujan College, University of Delhi Sponsored by MHRD, Pandit Madan Mohan Malaviya National Mission on Teachers and Training
18. Successfully Completed “Building Arduino robots and devices ” an online non-credit course authorized by Moscow Institute of Physics and Technology offered through Coursera on 22-05-2020
19. Successfully Completed “Programming for Everybody (Getting Started with Python)” an online non-credit course authorized by University of Michigan and offered through Coursera on 11-05-2020
20. Successfully Completed “Wireless Communications for Everybody” an online non-credit course authorized by Yonsei University and offered through Coursera on 11-05-2020
21. Successfully Completed “AI For Everyone” an online non-credit course authorized by deeplearning.ai and offered through Coursera on 01-05-2020
22. Successfully Completed NPTEL-AICTE FDP on “Switching Circuits and Logic Design” Jul-Oct 2019
23. Successfully Completed NPTEL-AICTE FDP on “Global Navigation Satellite Systems and Applications” Jul-Aug 2019
24. Successfully Completed NPTEL-AICTE FDP on “Accreditation and Outcome Based Learning” Aug-Oct 2019
25. Successfully Completed NPTEL-AICTE FDP on “Global Navigation Satellite Systems and Applications” Jul-Aug 2019
26. Successfully Completed NPTEL-AICTE FDP on “Computer Organization and Architecture: A Pedagogical Aspect” during Jan-Apr 2019
27. Successfully Completed NPTEL-AICTE FDP on “Real Time Operating System” during Feb-Mar 2019
28. Successfully Completed NPTEL-AICTE FDP on “Embedded System Design with ARM” Jan-Mar 2019

29. Successfully Completed NPTEL Online certification on “Road for Patent Creation” during Jan-Mar 2020
30. Successfully Completed NPTEL Online certification on “Introduction to Internet of Things” during Jan-Apr 2020
31. Successfully Completed “NAAC Awareness Program for Faculty” Organized by Marathwada Mitra Mandal Institute of Technology (MMIT), Lohgaon, Pune during 8-14 MAY 2020
32. Successfully Participated in webinar on “ Image Processing using Python” Organized by Mount Zion college of Engineering and Technology in association with Pantech on 12 May 2020
33. Successfully Participated the India's First Leadership Talk with Shri Shashi Shekhar (CEO- Prasar Bharti) Held on 11 July, 2020 by MHRD's Innovation Cell.
34. Successfully Participated in webinar on “ Virtual Reality” SRM Inst. of Science Technology in association with Pantech on 14 May 2020
35. Successfully Participated in webinar on “CO-PO Attainment Computation and Outcome Analysis” Organized by inPods Ed-tech Organization on 12 June 2020
36. Successfully Participated in webinar “Internet of Things using Raspberry PI ” Organized by Institute of Engineering and Technology in association with Pantech on 19 June 2020
37. Successfully Participated in webinar on “Online Teaching-Learning and Online Assessment Demo” Organized by inPods Ed-tech Organization on 19 June 2020
38. Successfully Participated in webinar on “Internet of Things using Arduino” Organized by Dr. Shyama Prasad Mukherjee University in association with Pantech on 16 June 2020
39. Successfully Participated in webinar on “Internet of Things using NodeMCU” Organized by Shiv Kumar Singh Institute of Science of Technology in association with Pantech on 23 June 2020
40. Successfully Participated in webinar on “Design of Brain Control Applications” Organized by Dr. B.R.Ambedkar NIT Jalandar in association with Pantech on 26 June 2020
41. Successfully Participated in webinar on “Publishing Research articles in Scopus Indexed Journals” Organized by CBIT-School of Management Studies on 24 June 2020
42. Attended the Special course on “Satellite Navigation (IRNSS-GAGAN)” Organized by NRSC, Balanagar, Hyderabad during 30-31 Oct 2017
43. Attended the Industry Summit on “Deftronics-17” Organized by IESA, India during 31 Aug- 1 Sept 2017.
44. Attended the FDP on “LabVIEW Certification” Department of ECE, CBIT during 21–24 August 2017
45. Attended the one week workshop on “Hands on myDAQ and myRIO” Department of ECE, CBIT during 6th – 11th Nov'17 (Under LabVIEW Academy school)
46. Got Certification as “Certified LabVIEW Associate Developer” (CLAD) from National Instruments.

Details of Journal Publications/  
Conferences (National and  
International)

**International Journal from 2017**

1. P. Sathish, N. Alivelu Manga “ Investigation of Doppler Collision Effects in Kinematic Conditions and its Mitigation for NavIC System” Alinteri Journal of Agriculture Science eISSN: 2587-2249, Vol:36, Issue:1, June 2021
2. Sathish Pasika, Sai Teja Gandla “ Smart water quality monitoring system with cost effective using IoT” Heliyon Journal Elsevier Publication e04096, ISSN: 2405-8440, Vol:6 Issue:7, July-2020
3. Ayesha Samreen, Amtul Mohimin Taha, Yasa Vishwanath Reddy, P. Sathish “Brain Tumor Detection by Using Convolution Neural Network” International Journal of Online and Biomedical Engineering, Vol:16 Issue:13, October-20
4. P.Sathish, Ayesha Samreen and N.Aivelu Manga “ Monitoring of Patient Critical Health Parameters by using a Low-Cost IoT based System” Journal of Xidian University, ISSN: 1001-2400, Vol:14 Issue:8, August-2020
5. G. Sai Teja, P. Sathish “MQTT Protocol based Smart Greenhouse Environment Monitoring System using Machine Learning” International Journal of Innovative Technology and Exploring Engineering, ISSN: 2278-3075, Vol:9 Issue:9, July-2020

6. G. Sai Teja, P. Sathish, N, Alivelu Manga "Development of Voice Assisted Application for Real-Time Refrigerator Door control" Journal of Xidian University, ISSN: 1001-2400, Vol:14 Issue:7, July-2020
7. P. Sathish, D. Krishna Reddy, "Predictive Data Optimization of Doppler Collision Events for NavIC System" Advances in Intelligent Systems and Computing , Springer Publication, ISSN-2194-5357, Vol:979, pp:583-589, April-2020
8. Sathish Pasika, D. Krishna Reddy "Estimation of Doppler Positioning for NavIC System in Static and Dynamic Conditions", International Journal of Engineering and Advance Technology, ISSN: 2249-8958 , Volume: 9 Issue: 6 , August-2019
9. Sathish Pasika, D. Krishna Reddy, N Alivelu Manga "Development of Raspbian kernel Customization for Automatic Railway Level Crossing Application" International Journal of Recent Technology and Engineering, ISSN: 2277-3878 , Volume: 8 Issue: 1c , May-2019

#### International /National Conferences from 2017

1. K.Tarun, N. Vinay reddy, T. Akhilesh, P. Sathish " Analysis of Doppler Collision using Supervised Machine Learning" Fifth IEEE International Conference on Intelligent Computing and Control Systems (ICICCS 2021) during 6-8 May, 2021 Organized by Vaigai College of Engineering, Madurai, India
2. Pappu Gayathri Devi, Sunkara Chandana, P. Sathish "Design and Development of Android Application for Virtual Birthday Present" 6th International IEEE Conference on Communication and Electronics Systems (ICCES-2021) during 8-10 July, 2021 Organized by PPG Institute of Technology, Coimbatore, India
3. Vijayalakshmi K, Yoshihitha G, Sahithi B, Sathish P "Preliminary Analysis of Doppler Collision Occurrence in Various Kinematic Conditions for NavIC System" IEEE International Students' Conference on Electrical, Electronics and Computer Science during February 22-23, 2020 organized by Maulana Azad NIT Bhopal.
4. Srikar Gullapalli, Karthik P, Sathish P "A Comparative Analysis of Cloud Based Watson System and CNN for Gesture Recognition Systems" IEEE International Students' Conference on Electrical, Electronics and Computer Science during February 22-23, 2020 organized by Maulana Azad NIT Bhopal.
5. Ayesha Samreen, P.Sathish and N.Alivelu Manga "Low Cost IoT Based Emission Monitoring System for Thermal Power Plants" IEEE conference on Innovations in Power and Advanced Computing Technologies (i-PACT) during March 22-23, 2019 Organized by VIT (Deemed to be University), Vellore.
6. P.Sathish, D.Krishna Reddy, A.D. Sarma and K Sudharshan Reddy "Investigations on Doppler Collision Effects on NavIC" Proc. of 3<sup>rd</sup> IEEE International Conference on Recent Trends in Electronics, Information, Communication and Technology (RTEICT-2018) during May 18-19 2018, Organized by S.V College of Engineering, Bengaluru
7. Syed Ali Imran Quadri, P.Sathish "IoT Based Home Automation and Surveillance System" IEEE International Conference on Intelligent Computing and Control Systems (ICICCS-2017) during June 15-16, 2017 Organized by Vaigai College of Engineering, Madurai, India

