P.E.S. College of Engineering, Mandya - 571401
(An Autonomous Institution, affiliated to VTU, Belagavi)

Faculty Profile

General

Name	Dr. Punith Kumar M B
Designation,	Professor
Department & Affiliated Institution	Department of Electronics & Communication Engineering, PES College of Engineering, Mandya - 571401
Research Area	Image Processing, Video Processing, Shot Detection, Power Electronics
Contact Number	+91 98444 82308/ 7975571847
Email ID	punithpes@gmail.com , punithkumarmb@pesce.ac.in

Academic Profile

Educational Qualifications

Degree	College	University	Year of Passing
Ph. D	PET-RC, PESCE	University of Mysore, Mysuru	2017
M. Tech	PES College of Engineering, Mandya	Visvesvaraya Technological University, Belgaum	2010
B.E	The National Institute of Engineering, Mysuru	Visvesvaraya Technological University, Belgaum	2007

Professional Experience

Organization and Department	Designation	Period	Total Experience
PESCE, Mandya (E&C)	Professor	26/03/2021- till date	
PESCE, Mandya (E&C)	Associate Professor	01/04/2017 – 25/03/2021	04 Years
PESCE, Mandya (E&C)	Assistant Professor	23/01/2017 to 31/03/2017	3 Months
BGSIT, Bellur (E&C)	Assistant Professor	19/07/210 to 21/01/2017	07 Years
JVIT, Bidadi (E&C)	Lecturer	05/09/2007 to 01/09/2008	01 year

Reports on Academic and Research Activities

Academic Activities

Teaching Records (Details of courses taught)	<u>Undergraduate:</u> Information Theory and Coding, Digital Design Using Verilog HDL, Power Electronics, Digital Communication, Logic Design , Low Power VLSI Design, Digital Signal Processing, <u>Post Graduate (M. Tech):</u> Low Power VLSI Design, System On Chip, ASIC Design,

Research Guidance (Candidates Awarded / Pursuing Ph.D / M.Sc., Engg./ M.Phil)

Degree	Ph. D.	M.Sc., Engg.	M.Phil
Awarded	Nil	Nil	Nil
Pursuing	06	Nil	Nil

Sponsored Research Projects (List of Projects taken up /completed and funds receiver & funding sources)

Project Title	Project Funded by	Grants Sanctioned	Grants Received
---	----	---	---

Research Publications in Refereed Journals and Conferences/Symposia

Number of Publications in	National	International
Journals		10
Conferences/Symposia		14

Other Important Responsibilities Held in the College

1. BOS and BOE Member
2. Webinar Coordinator
3. Industry Visit Coordinator
4. IEEE PESCE Branch Counselor

LIST OF PUBLICATION

2023

1. Dr. Punith Kumar M B, Aishwarya S J, Anjali N, Darshini M "Smart Agricultural Marketing System" International Journal of Scientific Research in Engineering and Management (IJSREM) Volume: 07 Issue: 07 | July - 2023, ISSN: 2582-3930 pp. 1-6
2. Dr. Punith Kumar MB, Adithya GS, Skanda MK, Soundarya M, Srujan S " Technological Transformations: Harnessing Information Technology For Food Waste Management" , International Research Journal of Modernization in Engineering Technology and Science, Volume:05/Issue:06/June-2023, ISSN: 2582-5208 pp.4340-4344

2022
3. Nisarga G S , Dr. Punith Kumar M B , Dr. Mahesh , M Subramanyam "Comparative Research of Neuron Circuits" International Journal for Research in Applied Science & Engineering Technology, Volume 10 Issue VII July 2022, ISSN: 2321-9653, pp.4121-4126
4. Vasanth Reddy, Dr Punith Kumar M B " Cotton Plant disease detection using Image Processing and Deep learning techniques : A Survey", International Conference on Electronics and Telecommunication for Real Time Applications, ISBN No:978-93-5620-485-0. pp.160-163

2021

5. Dr. Punith Kumar M B, D Manikant Amaresh Savadatti, " Internet Rescue Robots for Disaster Management ", International Journal of Wireless and Microwave Technologies(IJWMT), Vol.10, No.6, , 2021. DOI: 10.5815/ijwmt.2021.02.02, pp. 13-23
6. Meghana Jain H K, Dr. Punith Kumar M B "Verification of Advanced Peripheral Bus Protocol (APB V2.0)", International Research Journal of Engineering and Technology, e-ISSN: 2395-0056, Volume: 08 Issue: 06, pp. 4397-4405

2020

7. Dr. Punith Kumar M B, D Manikant Amaresh Savadatti, " Virobot the Artificial Assistant Nurse for Health Monitoring, Telemedicine and Sterilization through the Internet", International Journal of Wireless and Microwave Technologies(IJWMT), Vol.10, No.6, pp. 16-26, 2020.DOI: 10.5815/ijwmt.2020.06.03

8. Dr. Punith Kumar M B, Madhura B.N, N Chandana, Navyashree M , Nisha U.N (2020). Brainwave Controlled Automated Wheelchair. International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181 , Special Issue - 2020 , Volume 8, Issue 13, ,   JUNE 2020, pp. 223 – 225

9. Dr. Punith Kumar M B, Mr. Manoj Kumar (2020). Implementation of Smart Anti - Theft Vehicles Security System using IoT. International Research Journal Of Engineering And Technology (IRJET), E-ISSN: 2395-0056, P-ISSN: 2395-0072, VOLUME: 07, SPECIAL ISSUE, JUNE 2020, pp. 459 – 468

10. Dr. Punith Kumar M B, Miss. Preethi AB (2020). Internet of Things based Smart Energy Meter. International Research Journal Of Engineering And Technology (IRJET), E-ISSN: 2395-0056, P-ISSN: 2395-0072, VOLUME: 07, SPECIAL ISSUE, JUNE 2020, pp. 472 – 483

11. Kumar, P., Shreekanth, T., & Prajwal, M. R. (2020). Automated Quality Inspection of PCB Assembly Using Image Processing. International Journal of Image, Graphics and Signal Processing, 12(3), 13.

2019

12. Dr. Punith Kumar M B ,Shreekanth T , Shashank N S ,Sneha S (2019). A Simplified Approach for Mathematical Expression Recognition and its Conversion to Speech. Scopus Indexed: International Journal of Recent Technology and EngineeringTM (IJRTE), Volume-8 Issue-2S8, August 2019, pp. 1033-1038

13. Dr. Punith Kumar M B Shreekanth T, Saraswathi S,Anupama M (2019). An ANN Based Real Time System for Classification of Normal and Abnormal Cries of Pre-term and Neonates. International Conference On Advanced Scientific Innovation In Science, Engineering And Technology April 2019

. Scopus Indexed: International Journal of Recent Technology and EngineeringTM (IJRTE) Volume-8 Issue-5S3, July, 2019, pp. 133-138

14. Dr. Punith Kumar M B , Sreekantesha H N (2019). Design and Verification of SPI Master Core Using UVM. Journal of Emerging Technologies and Innovative Research UGC Journal, ISSN-2349-5162, Volume 6, Issue 5, May 2019 pp. 239-244

2018

15. Shreekanth, T., Kumar, M. P., & Krishnan, A. (2018, May). Text-Independent Handwriting Classification Using Line and Texture-Based Features. In International Conference on ISMAC in Computational Vision and Bio-Engineering (pp. 211-220). Springer, Cham.

16. Kumar, M. P., Shreekanth, T., Prajwal, M. R., & Shashank, N. S. (2019). An Image Processing Approach for Compression of ECG Signals Based on 2D RLE and SPIHT. In Emerging Research in Electronics, Computer Science and Technology (pp. 981-995). Springer, Singapore.

2017

17. Punith Kumar M B and Sahana Raj B S (2017). FPGA Implementation of High Speed 8bit Vedic Multiplier using Barrel Shifter. IDL - International Digital Library Of Technology & Research Volume 1, Issue 2, Mar 2017 pp. 1-8

18. Dr. Punith Kumar M B and Bharathi.R (2017).   "Design and Implementation of Ripple Free, Short Circuit Protected Variable Power Supply For Technical Laboratories Using Multisim" International Journal of Engineering, Basic Sciences, Management & Social Studies Volume 1, Issue 1, May 2017 Special Issue on "Emerging Trends in Electronics and Communication Engineering" pp. 457-463

19. Dr. Punith Kumar M B and Kavya K(2017).   "Development of Automated Test System For RRF Duplexer" International Journal of Engineering, Basic Sciences, Management & Social Studies Volume 1, Issue 1, May 2017 Special Issue on "Emerging Trends in Electronics and Communication Engineering" pp. 351-356

2016

20. Punith Kumar M B and Sowmyashree S M (2016).   "Catching of Stolen Vehicles using RFID Technology" International Journal For Technological Research In Engineering Volume 3, Issue 10, June-2016 ISSN (Online): 2347 – 4718.

2015

21. Kumar, P., & Puttaswamy, P. S. (2015, December). The extraction of events and replay in cricket video. In 2015 International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT) (pp. 54-58). IEEE.

22. Kumar, P., & Puttaswamy, P. S. (2015, June). Moving text line detection and extraction in TV video frames. In 2015 IEEE International Advance Computing Conference (IACC) (pp. 24-28). IEEE.

2014

23. Punith kumar M. B. and Dr. P. S. Puttaswamy. (2014).   "Scene Classification Based on Feature Extraction", International Journal of Advanced Research in Computer and Communication Engineering, IJARCCE Vol. 3, Issue 9, September 2014 ISSN (Online) : 2278-1021 ISSN (Print) : 2319-5940 pp. 7881- 7884.

24. Kumar, M. P., & Puttaswamy, P. S. (2014). Video to frame conversion of TV news video by using MATLAB. International Journal of Advance Research in Science and Engineering, 3(3).

2013

25. Punith kumar M. B. and Dr. P. S. Puttaswamy. (2013).   "A Shot Boundary Detection Method for News Video Based Human Skin Region (Face) Detection", IJSRD - International Journal for Scientific Research & Development Vol. 1, Issue 7, 2013 ISSN (online): 2321-0613, pp. 1385- 1387.

26. Kumar, P., & Puttaswamy, P. S. (2013). A Shot Boundary Detection Method for News Video based Human Skin Region (Face) Detection. International Journal of Computer Applications, 975, 8887.

27. Punith kumar M. B. and Manjushree M. N (2013).   " Implementation of Support Vector Machine to Analysis Text Detection in Images and Videos" International Journal of Innovative Research & Development, ISSN 2278 – 0211 (Online), Vol 3 Issue 5, pp. 459- 460.

28. Punith kumar M. B. and Sindhu J (2013). " Shot Classification in News Video Based on Color Histogram" International Journal of Innovative Research & Development, ISSN 2278 – 0211 (Online), Vol 3 Issue 6, pp. 185- 188.

29. Rangaswamy M. R., & Punith kumar, M. (2013). New Symmetric Key Cryptographic Algorithm Using Combined Bit Manipulation And MSA Encryption Algorithm: NJJSAA Symmetric Key Algorithm. International Journal of Innovative Research and Development (ISSN 2278–0211), 2(6).

30. Punith kumar.M.B and Shalini.M.G, and M.B.Anandaraju (2013). "FPGA-Based Implementation of Intelligent Predictor using ANN for Global Solar Irradiation " International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-3, Issue-2, July 2013 pp. 111-117