CURRICULUM VITAE

Name:	Smt. Bhavaling Alias Pratima Khot	
Designation:	Assistant Professor	
Department:	Electronics and Communication Engineering	
Specialization & Research Interests:	Microelectronics and Control Systems	
Email IDs (Official & Personal)	pratimakhot.ece.@hsit.ac.in	
Mobile No.:	9964019501	
Address:	Assistant Professor, Department of E&CE, HSIT, Nidasoshi Karnataka- 591236	

2. ACADEMIC QUALIFICATION (in reverse Chronological order):

Degree	Year	University/Board
Pursuing Ph.D.	2023 (Pursuing From)	Visvesvaraya Technological University, Belagavi
M. Tech.	2015	Visvesvaraya Technological University, Belagavi
B.E.	2013	Visvesvaraya Technological University, Belagavi

3.   ANY OTHER QUALIFICATION: NIL

4.   PROFESSIONAL EXPERIENCE:

Organization/Institute/University	Position Held	Duration
Dr. A. D Shinde College of Engineering Gadhinglaj	Assistant Professor	04-01-2016 to 26-01-2017
Hirasugar Institute of Technology, Nidasoshi	Assistant Professor	27-01-2017 to Till Date

5.   ADMINISTRATIVE ASSIGNMENTS:

Position Held	Duration	Nature of Work
I. Institute Women Empowerment committee Member	2017 to Till Now	Organizing events, workshops, and initiatives that address gender-related issues, create awareness, and foster an inclusive environment for the personal and professional development of female students and staff.
II. Institute Student Welfare Committee Member	2023 to Till Now	Enhancing the overall well-being of students by organizing and overseeing various initiatives, events, and support services that contribute to a positive and enriching campus experience.
III. Institute OBC Cell Representative & Member SC/ST/OBC CELL	2021 to till Now	Conveying information regarding Scholarship to students and addressing their concerns.
IV. Institute Training and Placement cell member	2023 to till Now	Organizing training programs, and maintaining industry connections to enhance career opportunities for students.
V. Department NBA Criteria-9 Coordinator	2020 to till Now	Collecting the feedback on faculty and facilities provided. Maintaining Career guidance/training, NSS and alumni association activities information
VI. Department NBA Criteria-5 Coordinator	2017 to 2020	Collecting the faculty information's & contributions details
VII. Department NAAC Criteria-1 Coordinator	2023 to Till Now	Collecting the DEPARTMENT LEVEL Curricular Planning and Implementation Documents

6.   COURSES TAUGHT:

- Introduction to Electronics and communication
- Basic Electronics
- Control Systems
- Computer Organization and Architecture
- Operating Systems
- Image Processing
- Automotive Electronics
- Digital Image Processing
- High Performance Communication Networks
- Network and Cyber security
- Network security
- Communication Theory
- Principles of Communication system
- Computer Networks

7.   RESEARCH SUPERVISION:

A.   **Ph.D: NIL**
   i. **Awarded**   :
   ii. **Submitted**   :
   iii. **Ongoing**   :

B: **M.Tech: NIL**
   i. **Awarded**   :
   ii. **Submitted** :
   iii. **Ongoing**   :

C.   **BE/B. Tech Degree Oriented (Bachelor Level Dissertation): 8**
   i. **Awarded**   : 7
   ii. **Submitted** :
   iii. **Ongoing**   : 1

8.   CONTRIBUTION TO CORPORATE LIFE OF THE INSTITUTE:

I.   Organized STTP on "Full Stack Web Development" by Mr. Shivaraj M. IR solutions Bengaluru from 15/12/2023 to 18/12/2024.

II. Organized a webinar on "Introduction to Artificial Intelligence" by Dr. Mahadevaswamy Associate Professor VVCE Mysore on 23/12/2022 in ECE Department HSIT Nidasoshi.

III. Organized webinar on "A Guidance Program on Career Opportunities after B.E." by ACE Engineering Academy on 16/06/2022. HSIT Nidasoshi.

IV. Organized webinar on "Deep learning and Its Applications" Dr. Mahadevaswamy Associate Professor VVCE Mysore on 29/10/2021

V.   Organized Three Days National Level Online FDP on "Advanced Research Trends in Image Processing", 14-07-2020 to 16-07-2020, HSIT Nidasoshi.

VI.   Organized International webinar on "MENTAL HEALTH MANAGEMENT in Association with MIND FUNDA on 28th July 2020, HSIT Nidasoshi.

VII.   Session co-coordinator, Two Days International conference on Recent Innovations in Science Engineering & Technology (ICRISET-18) on 18th and 19th May 2018

VIII.   Co-Convener, "women's Day-2018" 10/3/2018

IX.   Department Event Coordinator, HSIT QUEST 2017, 2018, 2019.

X.   Programming committee member, HSIT SAMBHRAMA 2019.

XI.   Programming committee member, "Talent Hunt-2021" 10th April 2021, HSIT Nidasoshi.

XII.   Member, Sports & Cultural /NSS/Extra Curricular Activities Committee from 2018 to till now.

XIII.   Member, Women Empowerment cell, HSIT Nidasoshi. 2017 to till now.

XIV.   Member, Industry Institute Interaction Committee ECE department

XV.   Department meeting coordinator from 2019 to till now

XVI.   Department NBA Criteria-5 Coordinator from 2017 to 2020.

XVII.   Department NBA Criteria-9 Coordinator from 2020 to till now

XVIII.   Department NAAC Criteria-1 Coordinator from 2023 to till now

9.   MEMBERSHIP OF SOCIETIES/PROFESSIONAL BODIES: NIL

10.   PUBLICATIONS:

- M. A. Khot, B. P. Khot and S.S Ittannavar "Block Matching Algorithms For Motion Estimation And Compensation In Video Compression" International journal of Advanced Technology in Engineering and Science vol. no. 11, Issue no. 12 December 2023

- S. S. Ittannavar, R. H. Havaldar and B. P. Khot "Comparative Assessment of Image Processing Techniques for the Early Detection of Breast Cancer: A Review" *Bioscience Biotechnology Research Communications, Biosc.Biotech.Res.Comm.(BBRC) Special Issue* vol. 13 issue no. 13 Pp-181-94, December 2020. **(Web of Science Indexed)** http://dx.doi.org/10.21786/bbrc/13.13/12

- Shreevijay S Ittannavar, Raviraj H Havaldar and Bhavaling Alias Pratima Khot "A Research on Breast Cancer Detection using Mammography", *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* vol.9, issue no. 1, pp.3459-3463 November 2019. [ISSN: 2278-3075] **(Scopus Indexed)** **http://doi.org/10.35940/ijitee.A4904.119119**

- S. S. Ittannavar, B. P. Khot and R. H. Havaldar "Comparative Analysis of Mammogram Enhancement using Weiner filter for Early Detection of Breast Cancer", *A Journal Of Composition Theory* vol.12, issue no. 6, pp.90-93, June 2019. [ISSN: 0731-6755] **(UGC Care)**

- B. P. Khot and S. S. Ittannavar, "Accident Prevention and Security System for Vehicles using Multi Sensors", *International Journal of Emerging Technologies and Innovative Research,* vol.6, Issue 6, pp. 413-416, June 2019. [ISSN: 2349-5162] **(UGC Approved)**

- J. J. Lokare, Y. B. Torase, R. K. Vaigude, P. R. Narawade, and B. P. Khot "Comparative Analysis of Digital Image Enhancement Techniques", *International Journal of Science & Engineering Development Research*, vol.2, issue no. 7, pp.10-14, June-2017. [ISSN: 2455-2631]

- S. S. Ittannavar, R. H. Havaldar and Pratima Khot "Reducing Computation Complexity Using Adaptive Rood Pattern Search Algorithm in Video Compression", *International Journal of New Technologies in Science and Engineering,* vol. 2, issue no. 2, pp. 60-65, August-2015. [ISSN: 2349-0780]

- Pratima Khot, Rashmi V Pawar, S. S. Ittannavar and A. S. Jadhav "Sub-Pixel search Motion Estimation Algorithms in Video Compression", *International Journal of Emerging Trends in Electrical and Electronics (IJETEE)* vol. 11, issue no. 6, pp. 11-16, October-2015. [ISSN: 2320-9569]

A.   BOOKS/MONOGRAPHS: NIL
1.   Authored: NIL
2.   Edited: NIL

B. PAPERS IN REFEREED/PEER REVIEWED JOURNALS:

I.   S.S.Ittannavar, R. H. Havaldar and B. P. Khot **"**Comparative Assessment of Image Processing Techniques for the Early Detection of Breast Cancer: A Review" Bioscience Biotechnology Research Communications, Biosc.Biotech.Res.Comm. (BBRC) Special Issue Vol. 13 No. 13 (2020) pp. 181-94 http://dx.doi.org/10.21786/bbrc/13.13/12 **(Web of Science Indexed)**

II.   Shreevijay S Ittannavar, Raviraj H Havaldar and Bhavaling Alias Pratima Khot "A Research on Breast Cancer Detection using Mammography", *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* vol.9, issue no. 1, pp.3459-3463 November 2019. [ISSN: 2278-3075] **(Scopus Indexed)**

C. PAPERS IN CONFERENCES PROCEEDINGS:

I.   B. P. Khot and S. S. Ittannavar "Block Matching Algorithms for Motion Estimation and Compensation in Video Compression" International journal of Advanced Technology in Engineering and Science, organized by HSIT, Nidasoshi 8th and 9th December 2023.

II.   S. S. Ittannavar, B. P. Khot and R. H. Havaldar "Deep Learning Based Approach For Enhancement of Traffic Rules" International conference on Advances in Communication and Computing using Artificial Intelligence and

Data Science (ICACCAD-2022) organized by SNS College of Technology, Coimbatore, Tamil Nadu, India 15th & 16th September 2022

III.   S. S. Ittannavar, B. P. Khot and R. H. Havaldar "Classification of Covid-19 for chest X-Ray images using Deep Learning" International Conference on Technological Emerging challenges in computer science and engineering (ICTECCSE-2K21) Tirumala Engineering College Jonnalagadda, Andhra Pradesh 20th and 21st October 2021

IV.   S. S. Ittannavar and Bhavaling alias Pratima Khot "Deep Convolution Neural Networks for Early Detection of Breast Cancer" International Conference on Computing, Communication and Information Technology Chennai Institute of Technology on 30th & 31st July, 2020.

V.   S. S. Ittannavar, B. P. Khot and R. H. Havaldar "Comparative Analysis of Mammogram Enhancement using Weiner filter for Early Detection of Breast Cancer" International Conference on Recent Innovations in Science, Engineering, and Technology (ICRISET-2019) HSIT, Nidasoshi, 18th July 2019

VI.   Sangamesh udageri, Vinod Jadhav, S. S. Ittannavar, D B Madihalli and B.P. Khot "Comparative Analysis of Filtering Techniques for Ultrasound Images Of Bone fracture", Two days National Conference on Recent Advancements & Innovations in Electronics & Communication - RAIEC 2018 in KLE College of Engineering & Technology, Chikodi, 9th & 10th March 2018.

VII.   Pratima Khot, S. S. Ittannavar and R. H. Havaldar "Fast Full Search Motion Estimation in Video Compression", *International Conference on Emerging Trends in Engineering Sciences ICETES 2015* in Jain Engineering College Belgaum, 25th April 2015.

11.   Patents/Copyrights/IPR (If Any):

I. Patent filed in INTELLECTUAL PROPERTY INDIA on the topic **"DETECTION OF BREAST CANCER IN DIGITAL MAMMOGRAMS USING DEEP LEARNING ALGORITHM"** on June 11th 2021. Application Number: 202141026197 Publication Date: 25/06/2021

12.   INVITED TALKS: Organized

1. Organized webinar on "Introduction to Artificial Intelligence" on 23/12/2022 in ECE Department HSIT Nidasoshi.
2. Organized webinar on "A Guidance Program on Career Opportunities after B.E." by ACE Engineering Academy on 16/06/2022. HSIT Nidasoshi.
3. Organized webinar on "Deep learning and Its Applications" on 29/10/2021 in ECE Department HSIT Nidasoshi.
4. Organized Three Days National Level Online FDP on "Advanced Research Trends in Image Processing", 14-07-2020 to 16-07-2020, HSIT Nidasoshi.

5. Organized International webinar on "MENTAL HEALTH MANAGEMENT in Association with MIND FUNDA on 28th July 2020, HSIT Nidasoshi.

13.   RESEARCH PROJECTS *(COMPLETED/ONGOING):* NIL

14.   PARTICIPATION & PRESENTATIONS IN SEMINARS /SYMPOSIA/ WORKSHOPS/ CONFERENCES:

Sl. No.	Topic	Period		Venue
		From	TO	
1	5 Days International FDP on "NLP and ChatGpt Applications" Organized by SIET Vijayapura and EXCELR EdTech Pvt. Ltd	14-08-2023	19-08-2023	Online SIET Vijayapura
2	IPR awareness/ TRAINING Program under the special mission "National Intellectual Property Awareness Mission (NIPAM)"	12-05-2022	12-05-2022	HSIT, Nidasoshi
3	4 days FDP on "Software Engineering & Testing Methodologies" sponsored by VGST & organized by Department of computer science and Engineering	16-03-2022	19-03-2022	HSIT, Nidasoshi
4	Online 3-Day "FDP on Quantum Computing"	25-07-2021	27-07-2021	Online VCE, Mysuru
5	Webinar on "Scope and Requirements of Future Networks for Smart Healthcare" by Dr. Jagadeesha R. Bhatt, Professor, IIT-Dharwad	26-07-2021	26-07-2021	KLE Dr.M.S.S.C.E.T, Belagavi
6	Five- day FDP on "Artificial Intelligence and Natural language Processing"	12-07-2021	16-07-2021	Online VCE, Mysuru
7	Webinar on "Understanding Intellectual Property"	26-06-2021	26-06-2021	Karnataka Law Society's G.I.T, Belagavi.
8	AICTE Sponsored One Week Online Short Term Training Program on "Battery Management and Control Techniques in Electric Vehicles"	14-12-2020	19-12-2020	Online HSIT, Nidasoshi
9	AICTE Sponsored One Week Online Faculty Development Program on "Research Areas in Biomedical Signal Processing"	12-10-2020	17-10-2020	S. V.E.C. Tadepalligudem
10	One Week Online FDP "Emerging Trends in Power Electronics and Power System (**ETPEPS**-**2020**)".	24-08-2020	29-08-2020	OPJU Raigarh
11	5-Days E-Faculty Training Program "Machine Learning Technologies for Social Media Analytics'" by ISEA Ministry of Electronics and Information Technology (MeitY), Govt. of India	19-08-2020	23-08-2020	IIT, Guwahati
12	Three days National level one week FDP on "Advanced Research trends in Image Processing"	14-07-2020	06-07-2020	Online HSIT, Nidasoshi
13	Online webinar on "The science and Applications of NLP"	08-07-2020	08-07-2020	Online GKMCET, Perungalathur
14	Five days online FDP on "Contemporary Research Trends in Electronics & Communications and Computer Science"	06-07-2020	10-07-2020	Online VTU, Belagavi
15	Five days online FDP on FDP on "Advances in Artificial Intelligence, Machine Learning & Robotics"	06-07-2020	10-07-2020	Online VCE, Mysuru

Sl. No.	Topic	From	To	Venue
16	National level one week FDP on Recent trends in Image Processing"	01-07-2020	05-07-2020	Online THEEM college of Engineering Mumbai
17	National Webinar on "Effective and efficient writing of research papers for web of science, Scopus indexed journal and Conference papers using Typeset Research Studio"	01-07-2020	01-07-2020	Online AISSMS COE, Pune
18	Two days Nation webinar on "Research Trends in Image Processing & Pattern Recognition"	29-06-2020	30-06-2020	Online BCE Bengaluru
19	webinar on " HOW TO CRACK GATE IN FIRST ATTEMPT"	28-06-2020	28-06-2020	Online HSIT, Nidasoshi
20	Webinar on "Career After Covid-19"	21-06-2020	21-06-2020	Online HSIT, Nidasoshi
21	Webinar on "The World does spin, but not around you"	19-06-2020	19-06-2020	Online MSys Technologies
22	National Level One-Week Faculty Development Programme on "Machine Learning Based Project Architecture Design",	15-06-2020	19-06-2020	Online BEC (A) Bagalkot
23	One day National Level webinar on "MEMS Based Sensors for Chemical & Biochemical Sensing Applications"	15-06-2020	15-06-2020	Online SVEC, Tadepalligudem
24	Two days webinar series on "Recent Trends in Electronics and Communication Engineering"	11-06-2020	12-06-2020	Online BEC (A) Bagalkot
25	Two days online FDP on "Skill Enhancement for Academicians"	08-06-2020	09-06-2020	Online JCE Belagavi
26	Webinar on "Design of Analog Layout & Opportunities and Challenges in Semiconductor Domain"	01-06-2020	02-06-2020	Online KLECET Chikodi
27	Webinar on "Power generation and Indian Energy Scenario"	16-05-2020	16-05-2020	CIT, Bengaluru
28	Four days workshop on "Design and Simulation of Microstrip antenna using HFSS simulation tool"	26-02-2020	29-02-2020	HSIT, Nidasoshi
29	Four days FDP on "Machine Learning and Data Analytics"	08-01-2020	11-01-2019	HSIT, Nidasoshi
30	One week FDP Internet of Things and Its Real Time Applications	28-02-2019	02-02-2019	HSIT, Nidasoshi
31	One week STTP on "Biomedical Data Analytics (BioMedics-2017)"	11-08-2017	17-08-2017	IIT, Kharagpur
32	Two days workshop on "FPGA Design Using Verilog"	26-04-2014	27-04-2014	BLDCET, Vijayapura
33	Three days workshop on "Signals and Systems"	04-10-2012	06-10-2012	HSIT, Nidasoshi

15.   AWARDS, FELLOWSHIPS & OTHER DISTINCTIONS:

- Secured Best paper award in International Conference on Recent Innovations in Science, Engineering, and Technology (ICRISET-2019) for the paper titled "Comparative Analysis of Mammogram Enhancement using Weiner filter for Early Detection of Breast Cancer" on 18th July 2019.

- Secured State level First place and awarded AS "Chinnara Kalashri" for excellence in patriotic, folk song singing by Governor of Karnataka Government, organized by women's and children's welfare Karnataka, Bengaluru on 14th November 2001.
- Secured State level Award "Bala Pratibha Puraskar" for excellence in folk song singing by Chief Minister of Karnataka Government organized by Kannada and Culture Department Bengaluru on 14th November 2002.
- Secured "Sadhanashree" Award by Shri Gurushanteshwar Sounsthan Hiremath on 28th april 2003
- Secured "Gaana Kogile" Award by Kamannavar residential coaching classes, Yaragatti on 24th October 2004.
- Secured "Aparanji" Award in 4th akhila Karnataka makkal sahitya sammelana Belagavi on 6th February 2005.

16.   ANY OTHER SIGNIFICANT INFORMATION:

- Completed SWAYAM 2-credit Online "**Research and Publication Ethics (RPE)**" Course
- Completed 12 week (Sep-Dec 2020) 3-credit NPTEL Online "**Digital Image Processing**" Course
- Teaching Results : 100% result in High Performance Communication Networks subject in the year 2017, 100% result in Image processing subject-2018, 100% result in Network and Cyber security subject in the year 2017, 2019, 2020 & 2021, 100% result in automotive Electronics subject in the year 2020, 100% result in Operating system subject in the year 2021. 100% result in Digital Image processing subject in the year 2017, 2020 & 2021, 2022 100% result in Network Security subject in the year 2022 & 2023.
- **Projects sanctioned under KSCST & VTU financial assistance Sponsorship.**

Sl. No.	Funding Body/Project reference Number	PROJECT TITLE	Name of the Guide	Name of the Leader	SANCTINED AMOUNT	Year
1	VTU Sponsorship	Smart waste segregation and clearance system using integrated Mobile robotic system	Prof. B. P. KHOT	Ms. Nisarga Bagalkot	5000.00	2020-21
2	43S_BE_0462 KSCST	Smart and safe child rescue from bore well	Prof. B. P. KHOT	Ms. KAVERI D	5000.00	2019-20
3	42S_BE_1153 KSCST	Accident prevention and security system for vehicles using multi sensors	Prof. B. P. KHOT	Ms. AKSHATA JAMAKHANDI	7000.00	2018-19

Smt. B. P. Khot