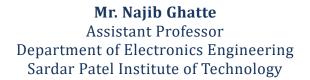Bhartiya Vidya Bhavan's
Sardar Patel Institute of Technology
(An Autonomous Institute Affiliated to University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai-4000058
Department of Electronics Engineering

Mr. Najib Ghatte
Assistant Professor
Department of Electronics Engineering
Sardar Patel Institute of Technology

Email id: najib_ghatte@spit.ac.in

Contact No. (M): 9821867642

- **Date of joining the present institute:** 01st day of July 2016

- **Scholastic record:**

Sr.No	Degree	Institute	University/Board	Year of passing	Class/CGPI/ percentage
01	M. E. (Electronics)	Fr. Conceicao Rodrigues College of Engineering, Mumbai	University of Mumbai	2015	CGPI: 8.96 (Second Topper)
02	B. E. (Electronics)	M. H. Saboo Siddik College of Engineering, Mumbai	University of Mumbai	2011	71.29% (Fourth Topper)
03	12th Science	Wilson College, Mumbai	Maharashtra State Board of Secondary and Higher Secondary Education	2007	82.67% (PCM: 91.5%)

- **Teaching experience in totality :** 9 years

   (including 3 years Adhoc Teaching Experience)

- **Academic merit record and achievements:**
  - Have elected as Joint Technical Head of M. H. Saboo Siddik College of Engineering under IEEE chapter for the 2009-2010
  - IEEE member for the consecutive two years: 2009-2011

- SACE member in the year :2009-2010
- Green Day Volunteer at Anjuman Islam's M. H. Saboo Siddik College of Engineering in 2009-2010
- Secured Highest Marks in ECAD-II (Sem-IV) and Embedded Systems (Sem-VIII)
- Presented 'Vessels Bilge Oil Water Separator' at Inter- College Technical Paper Meet-2012 organized by Saraswati College of Engineering on 14th Sept. 2012
- Won first and second prizes in many Inter-College Robotics Competition conducted by Engineering Colleges.

- **Membership of Professional Bodies:**
  - Life Member of Indian Society of Technical Education (ISTE): Membership No. LM123384 since 2018

- **Domain expertise and areas of interest:**
  - Analog Electronics, Control Systems, Signals and Systems, Instrumentation, Embedded Systems, Robotics

- **Details of subjects taught:**

S. No.	Name of the subject
1.	Analog Electronics
2.	Circuit Theory
3.	Principles of Control System
4.	Signals and Systems
5.	Digital Signal Processing
6.	Foundation of Signal Processing
7.	Linear Integrated Circuits
8.	Programming in C
9.	Microcontroller
10.	Embedded Systems
11.	Digital Communication
12.	Electronic Instrumentation

- **Workshops/Refresher courses/Training programs/Seminars attended:**
  - Participated in Two-Day Workshop on System Modelling and Simulation organized by Fr. Conceicao Rodrigues College of Engineering.
  - Attended 2016 International Symposium on Internet of Things organized by Lab-X Foundation in collaboration with Sardar Patel Institute of Technology and IEEE Consumer Electronics Society held in Mumbai, on August 3rd and 4th 2016.
  - Participated in International Conference on Advance Computing, Communication and Control organized by Fr. Conceicao Rodrigues College of Engineering.
  - Attended Design Thinking Workshop conducted by SPJIMR faculties at Sardar Patel Institute of Technology on January 3rd and 4th 2017 and presented a report on Empathy Map for stakeholders on 18th April 2017, which got highly appreciated.
  - Attended AICTE sponsored "Two Days National Seminar on Technologies for Development of Rural Areas" on 27th and 28th Nov 2017.
  - Completed IEEE online course on "Introduction to Instrumentation" conducted on 26th January 2018
  - Attended AICTE-ISTE Approved One Week Short Term Training Program (STTP) on "Pushing Boundaries of Wireless Technologies" conducted by the Department of Electronics and Telecommunication Engineering, Sardar Patel Institute of Technology, from 02-01-2018 to 06-01-2018.
  - Attended Faculty Development Program on 11th July 2018 on Machine Learning for Data Analytics and Big Data Applications using MATLAB, Hardware Connectivity and Internet of Things using MATLAB and Simulink.
  - Attended FSIE- India Expo-2019 at Goregaon BEC on 28th February 2019.
  - Attended Two Days Faculty Development Programme on "Continuous Quality Improvement" on 13th & 14th March 2019 organized by SPIT IQAC.
  - Attended One day Workshop on Moodle Learning Management System held on 15 March 2019 organized by IIT Bombay.
  - Attended AICTE Sponsored Two Week FDP on "Consumer Electronic Product Design, Testing, Reliability and Patenting" from 1st July 2019 to 13th July 2019 organized by Electronics Department of Sardar Patel Institute of Technology.
  - Attended Developing Young Minds' Potential by Dr. Nia Kurnianingsih on 14th June, 2020, IEEE Bombay Section.

- Attended AICTE sponsored One Week STTP "Signal Processing Techniques for Advanced Wireless Communication" from Monday, 26th October 2020 to Saturday, 31st October 2020 organized by Jayamukhi Institute of Technological Sciences, Warangal, Telangana. (Scored 160/200 in Test).

- Attended AICTE Sponsored Two Week Online Faculty Development Programme (FDP) on "Implementation of Artificial Intelligence for Solving Digital Signal and Image Processing Problems" conducted by the Department of Electronics and Communication Engineering, Vidya Jyothi Institute of Technology (Autonomous) in association with AICTE from 16-11-2020 to 28-11-2020.

- Attended Discussion on MATLAB Campus-Wide License discussion for professors and researchers at Bharatiya Vidya Bhavans Sardar Patel Institute of Technology on 14th April 2021 from 2pm to 4pm

- Attended Discussion on Proctortrack training to Sardar Patel Institute of Technology at Bharatiya Vidya Bhavans Sardar Patel Institute of Technology on 04th May 2021 from 03:30pm to 06 pm

- Attended Inauguration Ceremony of four Arduino Books created by the FOSSEE, IIT Bombay on Tuesday, 29 June 2021 https://floss-arduino.fossee.in/downloads

- Attended Practitioner's View -How to Set up an AI CoE in Your College of Academia Connect Program conducted by NVDIA-Academic Connect on Tuesday 14th July 2021

- Attended one week FDP (5-days) on "Digital VLSI Design and Verification" conducted by Department of Electronics and Communication Engineering, Bangalore Institute of Technology in association with Entuple Technologies & IEEE BIT from Monday 23rd August 2021 to Friday 27th August 2021

- Attended elaborate session on Constitution Literacy from 1:00 pm to 2:00 pm by Dr. Anand M. Kasle on 26th November 2021 from 1pm to 2pm

- Attended Discussion with Matthew Ball about Metaverse, Live on Facebook on 29th October 2021 from 10pm to 12midnight IST

- Attended One Week Online Faculty Development Program (FDP) under AICTE Training & Learning (ATAL) Academy on "IoT: A Journey from Sensor to Server" conducted by A. P. Shah Institute of Technology, Thane from Tuesday, 04th January 2022 to Saturday, 08th January 2022.
   (Attendance 80% with Test Marks 48/50)

- **Workshops/Refresher courses/Training programs/Seminars conducted as a resource person:**
  - Conducted Expert Lecture on "Advances in Control Systems" by Prof. Abhishek Barve, VJTI on 13th April 2017 for SE (Electronics)
  - Conducted Expert Lecture on "Advances in Control Systems" by Prof. Dattatray Surykant Sawant, Asst. Prof. (EXTC), Mukesh Patel School of Technology Management and Engineering on 14th February 2017 for SE (Electronics).
  - Conducted Expert Lecture on "Advances in Control Systems" by Prof. Dattatray Surykant Sawant, Asst. Prof. (EXTC), Mukesh Patel School of Technology Management and Engineering on 27th February 2017 for SE (Electronics)
  - Delivered an Expert Lecture on "Gate Orientation" in Electrical Engineering Department of , New Panvel on Monday, 12th February 2018
  - Conducted Expert Lecture on "Advances in Control Systems" by Prof. Dattatray Surykant Sawant, Asst. Prof. (EXTC), Mukesh Patel School of Technology Management and Engineering on 27th February 2019 for SE (Electronics)
  - Conducted Expert Lecture on "Automation Glimpse and Technoxian Championship Highlights Advances in Control Systems" by Mr. Ambrish K. Chaturvedi, Mr. Alister R. Savio D'Silva Business Development Manager and Director Absolute Motion Pvt. Ltd; and Mrs. Mahak Somani District Coordinator, Mumbai, All India Council for Robotics & Automation on 18th March 2019 for SE (Electronics)
  - Conducted Expert Lecture on "Advances in Control Systems" by Prof. Dattatray Surykant Sawant, Asst. Prof. (EXTC), Mukesh Patel School of Technology Management and Engineering on 26th February 2020 for SE (Electronics)
  - Core member of Organizing Committee of Research Colloquium 2021
  - Core member of Local Committee of International Conference on Communication, Information & Computing Technology – 2021
  - Organized LTspice Workshop on 22nd August 2020 under ESA
  - Organized Ace-a-Case Competition on 4th November 2020 under ESA
  - Organized Guest Lecture by Dr. Ashwini Gajarushi on 29th October 2020 under ESA
  - Organized Seminar on Stock Market Investing on 10th March, 2021 under ESA
  - Organized Sequel Workshop on 29th March, 2021 under ESA
  - Organized InQUIZitive on 6th June, 2021 under ESA
  - Organized Career Guidance Seminar for Post-Graduation (MS) on 28th January 2019 under ESA

- Organized Technical Event (IOT Seminar) on 3rd September 2018 under ESA
- Organized Trek to One Tree Hill (Matheran) on 11th August 2018 under ESA
- Organized Trip to Igatpuri on 3rd February 2019 under ESA
- Organized Guest Lecture by Mr. Vaibhav Awandekar on Signals & Systems in Emergency Healthcare and Indian Stock Market on 27th April 2022 during 2.30 pm to 3.30 pm in virtual mode
- Organized "The Guidance Forum" on 31st August 2021 and 22nd January 2022 under ESA
- Organized LTspice Workshop on 08th October 2021 under ESA
- Organized Workshop on Electronics Hardware on 01st October 2021under ESA
- Organized Webinar on VLSI on 19th October 2021 under ESA

- **Publications:**

International Conferences

Sr. No	Author/ Co-Authors	Title of International conference	Title of paper/article/ poster presentation	Schedule and venue of conference	Academic Year
1.	**Najib Ghatte**, Shilpa Patil, Deepak Bhoir	Int. Conference on Recent Trends in Computer and Electronics Engineering	High Speed ALU Design using Vedic Sutras	2014, Mumbai	2013-2014
2.	**Najib Ghatte**, Shilpa Patil, Deepak Bhoir	Fifth IRF Proc. International Conference on Software Technology and Computer Engineering	Single Precision Floating Point Square Root Computation	August 2014, Goa	2014-2015

3.	**Najib Ghatte**, Shilpa Patil, Deepak Bhoir	Fifth IRF Proc. International Conference on Software Technology and Computer Engineering	Single Precision Floating Division	August 2014, Goa	2014-2015
4.	Saqib G, Faizan K, **Ghatte N**	2018 IEEE International Conference on Current Trends towards Converging Technologies **(ICCTCT 2018)**	Intelligent Chatting Service Using AIML	$1^{st} – 3^{rd}$ March 2018, Tamil Nadu	2017-2018
5.	Deepak Karia, Ankur Mahadik, Suma Salian, Vaibhav Rajput, Anuradha Jadiya and **Najib Ghatte**	International Conference on New Trends in Engineering & Technology **(ICNTET 2018)**	Fire Detection and Gas Leakage Prevention System	$7^{th} – 8^{th}$ September 2018, Chennai	2018-2019
6.	Sameep Pote, Sparsh Pahalwan, Raksha Jain, **Najib Ghatte**	Third International Conference on Smart Systems and Inventive Technology **(ICSSIT 2020)**	Posturainer: IoT based Posture Training Device for Postural Control and Adaptive Gait	$20^{th} – 22^{nd}$ August 2020, Tirunelveli	2020-2021

7.	Siddhant Kumar, Sahil Gharat, Anuska Panwal, Deepak Karia and **Najib Ghatte**	IEEE, 4th International Conference on Communication, Information and Computing Technology, **(ICCICT 2021)**	AI Based Smart Remedial Observants in COVID-19	25th – 27th June 2021, Mumbai	2020-2021
8.	Neel Save, Omkar Thopate, Vaibhav Waghe, Manisha Bansode, **Najib Ghatte**	IEEE, 12th International Conference On Computing, Communication & Networking Technologies **(ICCCNT 2021)**	Artificial Intelligence based Fake News Classification System	6th – 8th July 2021, Khargpur,	2020-2021
9.	Siddhant Kamlaskar, Param Mehta, Dr. Deepak Karia, **Prof. Najib Ghatte**	2021 International Conference on Smart Generation Computing, Communication and Networking **(SMART GENCON),**	Automatic Room Sanitization using UV-C Tubes	29th – 30th October 2021, Pune	2021-2022
10.	Gaurav Patil, Harshada Patil, Sanika Sankhe, Deepak Karia, Najib Ghatte	The 3rd IEEE Bombay Section Signature Conference **(IBSSC 2021)**	Thermal Sensing Alert System	18th – 20th November 2021, Gwalior	2021-2022

11.	Netra Trivedi, Isha Naik, Navya Fadia, **Najib Ghatte,** Deepak Karia	The 3rd IEEE Bombay Section Signature Conference **(IBSSC 2021)**	Universal Remote using EMG based Gesture Recognition	18th – 20th November, 2021, Gwalior	2021-2022
12.	Pranjal Pimpale, Sanchit Rote, Kaushik Reddy, Narendra Bhagat, **Najib Ghatte,** Deepak Karia	7th International Conference on Nanoelectronics Circuits & Communication Systems **(NCCS 2021)**	Real time College Enquiry Chat-bot using Neural Networks	29th – 30th January 2022, Jharkhand,	2021-2022

- **Details of International Journal publications:**

Sr. No	Author/ Co-Authors	Title of Journal	Title of paper	Date of Publication
1.	Dattaprasad Madur, **Najib Ghatte**, Vinit Pereira, Tushar Surwadkar	International Journal of Research in Advent Technology,V1(5)	Modelling Light Emitting Diode using SPICE	Dec. 2013
2.	Vinit Pereira, **Najib Ghatte**, Madur Dattaprasad, Tushar Surwadkar	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering,V3(1)	Cyclic Redundancy Check Simulation using Serial Communication	Jan. 2014.

3.	**Najib Ghatte**, Vinit Pereira, Madur Dattaprasad, Tushar Surwadkar	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering,V3(1)	Real-Time Clock Implementation Using I^{2}C Protocol Check	Jan. 2014
4.	**Najib Ghatte**, Shilpa Patil, Deepak Bhoir	International Journal of Engineering Trends and Technology **(IJETT)**	Floating Point Engine using VHDL	Feb. 2014.
5.	**Najib Ghatte**, Shilpa Patil, Deepak Bhoir	International Journal of Engineering Trends and Technology **(IJETT)**	Double Precision Floating Point Square Root Computation	Jul. 2014.
6.	Devang Patani, Urmila Patil, Nayana Shelke, Dr. Rajendra Sutar, **Prof. Najib Ghatte**	International Journal of Advances in Engineering and Management **(IJAEM)**	Dual Degree of Freedom Solar Tracking System	Feb.2022

- ▪ **Details of Patent Publication:**

Sr. No	Author/ Co-Authors	Title of Patent	Patent Application No.	Date of Publication
1	Kalnawat Suumedh, Ramesh Sukruth, Khandekar Swapnil, Kasambe Prashant, **Ghatte Najib**	Systems and Methods for Dynamic Prosthetic Leg with Adaptive Actuators	202121022570	20/05/2021

- **Contribution to and role played in the administrative affairs of the institute:**
- **Departmental Roles**
  - ESA-Electronics Student Association
  - Minor Project Co-ordinator
  - Internship Co-ordinator
  - Placement Co-ordinator
  - Class Teacher
- **Institute Level Roles**
  - RnD-Research and Development Committee Coordinator
  - IR Cell: Industry Relations Coordinator
  - E-Cell: Entrepreneurship Cell Coordinator
  - IIC: Institution Innovation Cell Coordinator
  - Digital S.P.I.T.: Procurement of Smart Panels and Smart TVs

- **Other Contributions:**
  - Formulated syllabus for Electromagnetic Wave Propagation (ET42) and Fundamentals of Operating System Lab (ELL 63)
  - Handling Departmental files for Faculty Publications, Student Publications, Teaching Profile, Internships, Placements and Entrepreneurships since 2016
  - Departmental Coordinator for NAAC Criteria 3 and 5: 2017
  - Scrutiny 1 member for F.Y. B. Tech Admission Rounds-2020-2021
  - Created Course Material for SCOPE Course on Verilog Programming-I in 2017-2018
  - Submission of proposal for Minor Research Project titled Universal MODBUS Data Logger and Acceptance of Minor Research Grant worth Rs. 30,000/- in 2018-2019
  - Appointment as Paper Evaluator for S.P.C.E. TY B.Tech (Electrical) for Re-exam of Control System-I held in month of April-18
  - Organized Inter-College Mini Project Competition "Innovatron 2019" on 12th April 2019.
  - Moderation of Answer Books for Linear Control System of SE(Electronics) Sem IV (Choice Based) for first half of year 2019 at DJ Sanghvi College of Engineering on 30th August 2019
  - Worked as Judge for ABL-Dramatic Event. 2019-2020

- Worked as External Examiner for TE (Electronics) Digital Communication for DJ Sanghavi College of Engineering on 19th -20th November and 26th November 2020.
- Evaluated Poster Making Competition for first year students of S. P. I . T. in association with Institution's Innovation Council (IIC) on Feb-5 2022
- Applied for Electronic Students Association (ESA) Club Funding under AICTE-SPICES (Scheme for Promoting Interests, Creativity and Ethics among Students (SPICES) worth Rs. 1,00,000/- only on 28th Feb 2022 and got sanctioned on 25th May 2022