

FACULTY-PROFILE

Name : Mrs. Amruta Pabarekar

Highest Qualifications : M.E. (EXTC)

E-mail : amruta.pabarekar@fcrit.ac.in

Religion/Caste : Hindu

Educational Qualification :



Institute/Board	Degree	Field	Year	Division
Fr.C.R.I.T,Vashi (Mumbai University)	ME	Electronics & Telecommunication Engineering	2014	CGPI: 8.27/10
Fr.C.R.I.T,Vashi (Mumbai University)	BE	Electronics & Telecommunication Engineering	2008	1 st class (67%)
T.H.Wajekar College,Uran (Mumbai Board)	HSC	Science	2004	1 st class with distinction (75.0 %)
N.I.High School, Uran (Mumbai Board)	SSC	-	2002	1 st class with distinction (81.73%)

3 Major Strengths

- ❖ Honest
- ❖ Sincere
- ❖ Hardworking

3 Major Weaknesses: -

- Emotional
- Sensitive
- Short Tempered

Approved by the University as an examiner for the following subjects:

- Basic Electrical Engineer –FE Sem I (R-2019)
- C Programming –FE Sem II (R-2019)
- Microprocessors– TE Electrical Sem VI(R-2004)
- Microprocessors & Microcontrollers– TE Electrical Sem VI (R-2008)
- Electrical Networks – SE EXTC Sem III (R-2008)

- Circuit Theory and Transmission Lines-SE EXTC Sem-III (R-2012)
- Microcontrollers and its Applications- TE Electrical Sem- VI(R-2012))
- Wave Theory and Propagation- SE EXTC Sem- IV (R-2012))
- Optical Communication Networks-BE EXTC VII(R-2012)
- Linear Integrated circuits- SE EXTC Sem IV (FH 2018)
- Circuit theory and Networks- SE EXTC Sem-III (R-2016)

Other subjects taught:

- Applied Mathematics -FE EXTC Sem I

Achievements (Summarized below as Points A to D):

A. R&D

a) Self-thesis work Faculty Development:

- 1) Successfully completed ME project work from Fr. C.R.I.T Engineering College, Vashi, in the year 2008. Project Guide: Mrs. Sadhana Pai.
Project topic: **Temporal Analysis and Remote monitoring of ECG signal.**
- 2) Successfully completed BE project work from Fr. C.R.I.T Engineering College, Vashi, in the year 2008. Project Guide: Dr. Milind Shah & Mrs. Sadhana Pai.
Project topic: **Wireless Control of Microcontroller Based Display Systems for Basketball Game.**

b) Research publications (Journals/conferences)

• **International Journals**

- Amruta Mhatre, Sadhana Pai, Manita Rajput, “Temporal analysis of ECG using LabVIEW” in International journal of Latest technology in Engineering Management & Applied Science, ISSN: 2278-2540, Pg-128-131, Vol.III, Issue IX, September 2014.
- Suraj N, Sayli W, Twinkle, Amruta Mhatre “Car Security System”, in International Journal on Recent and Innovation Trends in Computing and Communication, IJRITCC Journal, Volume 4, Issue 10, October 2016, ISSN: 2321-8169, PP: 53 – 56.

• **International Conferences**

- Amruta Pabarekar, Tresa Biju, Mahima Beck, Wenit Melba, Steffi Mary Samkutty, “Hand Gesture Controlled Automated Vehicle” in 5th Biennial International Conference on Nascent Technologies in Engineering 2023 (ICNTE 2023), Fr. C. Rodrigues Institute of Technology, Navi Mumbai, IEEE Xplore, 20-21 January 2023.
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- Pratik P, Shalin E, Francis C, Arun V, Amruta Pabarekar “Autonomous Hospital Assistant Bot” in International Conference on Automation, Computing and Communication (ICACC-2022) April 7-8, 2022.
- Humera Khan, Tejashree Shendge, Pankaj Patil, Rashid Khan, Swaraj Deshmukh, Amruta Pabarekar, Sadhana Pai, “Smart Garbage Monitoring System,” in *International Conference on Energy and Sustainable Development ICESD2020*, Jadavpur University, Kolkata-700032 February 14-15,2020.
- Rahul Fatnani, Joyrin Fernandes, Nikhil Shah, Amruta Pabarekar” Augmentative and Alternative Communication Device for Paralytic patients”, in International conference on Trends in Electronics and Informatics ICOEI 2019, 23rd -25th April 2019 held at SCAD college of engineering and technology, Tirunelveli, India.
- Monika Budania, Annabelle Dani, Sanika Itagi, Lawansh Singh, B. Satyanarayana and Amruta Pabarekar, “Hall Sensor Array based Magnetic Field Measurement System”, in *proceedings of MTS-2018 on Recent trends in Wireless communications*, organized by IETE HQ, April 2018
- Suraj N, Sayli W, Twinkle, Amruta Mhatre, “Arduino Based Car Security System”, in International Conference on Recent trends in computing and Information Technology, ICRTCIT 2017, on 27th March- 31st March 2017 held at SRM University , Chennai,India.
- Tuhin, Shubham, Prashant, Nikhil, Amruta Mhatre, “Smart Restaurant based on AOS-RTF” in 7th International Conference on Communication, Computing and Virtualization 2016 held at Thakur college of Engineering and Technology on 26th and 27th February 2016.
- Amruta Mhatre, Sadhana Pai, “Temporal analysis and Remote monitoring of ECG Signal” in International conference on Nascent technology Vashi, Navi Mumbai, ICNTE-2015, 9th -10th January, 2015, ISBN: 978-1-4799-7261-6, IEEE xplore Pages: 1 – 5.
- Amruta Mhatre, Sadhana Pai, “Temporal analysis and Remote monitoring of ECG Signal” in International conference I-TechCON-2014 held at V.E.S. Institute of Technology, Mumbai on 3rd-4th January 2014, ISSN 2319-4847.
- **National Conferences**
 - Tuhin G, Shubham B, Prashant, Nikhil, Amruta Mhatre, “Smart Restaurant” at National Conference on Recent Innovations in Science Engineering and Technology (NCRISSET) held at Pune on 6th September 2015.
 - Pranali Choudhari, Amruta Mhatre, “Image Steganography” at National conference on VLSI and Signal Processing, NCVSP-11 at G. H. Rasoni College of Engg., Pune held on 30/06/2011 and 01/07/2011.

- Amruta Mhatre, Sadhana Pai, “MEMS for biomedical Applications” at National conference on “Signal Image Technology & Applied communication systems” at MAEER’S Maharashtra Institute of Technology (MIT) Pune held on 19th -20th Dec 2013.

1. BE project guidance

- BE final BE Final year students of the batch 2021-22 successfully completed a project on “Autonomous Hospital Assistant Bot”. The project group members include: Arun Varghese, Pratik Pinto, Shali Edward, Francis Talari.
- BE final BE Final year students of the batch 2020-21 successfully completed a project on “Hand Gesture Controlled Automated Vehicle”. The project group members include: Mahima Beck, Steffi Sam, Tresa Biju, Wenit Melba.
- BE final BE Final year students of the batch 2019-20 successfully completed a project on “Waste Segregation and Garbage Monitoring System”. The project group members include: Humera Khan, Tejashree Shendge, Pankaj Patil, Rashid Khan, Swaraj Deshmukh.
- BE final BE Final year students of the batch 2018-19 successfully completed a project on “Augmentative and Alternative Communication Device for Paralytic patients”. The project group members include: Rahul Fatnani, Joyrin Fernandes, Nikhil Shah.
- BE final BE Final year students of the batch 2017-18 successfully completed a project on “Hall Sensor Array based Magnetic Field Measurement System”. The project group members include: Monika Budania, Annabelle Dani, Sanika Itagi, Lawansh Singh.
- BE final BE Final year students of the batch 2016-17 successfully completed a project on “Arduino Based Car Security System”. The project group members include: Suraj N, Sayli W, Twinkle.
- BE final BE Final year students of the batch 2015-16 successfully completed a project on “Smart Restaurant”. The project group members include: Mr.Tuhin G,Mr. Shubham Bhoir, Nikhil Mehta, Prashant.
- BE Final year students of the batch 2010-11 successfully completed a project on 8051 Microcontroller Based Code Lock Security System. The project group members include: Mr.Kunal Deshpande, Mr.Chinmay Luktuke, Mr. Akshay Nair, and Mr.Narendra Mishra.

2. Efforts for R&D grant from various agencies/Consultancy work

1. **Name of the Project:** Temporal Analysis and Remote monitoring of ECG signal
Total sanctioned amount: Rs. 35,000/-
Sanctioning body: University of Mumbai
Year of sanctioning: 2013—2014

Specifications: The objective of “Temporal Analysis and Remote monitoring of ECG signal” aims at acquiring and analyzing temporal parameters of ECG signal such as P wave, QRS complex, RR interval, PR durations and amplitudes of P wave, ST wave using LabVIEW and sending these parameters as a message using a standard GSM mobile phone under abnormal conditions. This work will focus on acquisition and analysis of ECG signal, identification of cardiac arrhythmia and remote monitoring through automatic alert message generation and transmission using GSM network and LabVIEW. The research work will help us to explore various features of LabVIEW like temporal analysis and automated database generation.

3. Books/Chapters published: Nil

B. Training courses attended

a) Orientation program/Faculty development

1. Attended Technical webinar on “Robotics using Simscape” on April 09, 2020 organized by ATHARVA COLLEGE OF ENGINEERING.
2. Attended Orientation program of Basic Electrical Engineering, 2019 syllabus revision organized by Fr. CRIT on 20th September 2019 at Fr. CRIT, Vashi.
3. Attended Orientation program of Linear Integrated Circuits (ECC-403), syllabus revision organized by St. Francis Institute of Technology, Borivli (West) on 4th January 2018.
4. Attended one week FDP on “Wave theory and applications” organized by VJTI (Under QIP) during 2nd January to 7th January 2017 at VJTI Mumbai.
5. Attended one-week industrial training on fiber optic communication & sensors” conducted by Eagle Photonics Pvt. Ltd during 21st to 26th December 2016 at Vashi, Navi Mumbai.
6. Attended “Designing and Implementing Signal Processing, Computer Vision and Communication Systems using MATLAB and Simulink” organized by DesignTech systems LTD. In association with Fr. C.R. I.T on 12th April 2016.
7. Attended Teachers Orientation program at Fr. CRIT, Vashi” on 27-06-2015, Topic: Competent Teacher, by Father Joe Arun.
8. Attended Teachers Orientation program at Fr. CRIT, Vashi” on 23-6-2014. (Topic: Course outcomes and program outcomes) by Dr. Rollin Fernandes and Dr. Milind Shah.
9. Attended Teachers Orientation program at Fr. CRIT, Vashi” on 24-12-2013. (Topic: Teaching Effectiveness Enhancement by Mr. Krishnamoorthy, Don Bosco Institute of Technology)
10. Attended Teachers Orientation program at Fr. CRIT, Vashi” on 08-01-2011.

11. Attended Teachers orientation Programme on “Mission 10X” conducted by Ms Sreedevi N and Ms Anita J at FrCRIT, Vashi on 14/01/2010.
12. Attended ‘Examcell Orientation programme’ Organized by Fr. CRIT,Vashi on 17/04/10.
13. Attended ‘Teachers Orientation programme’ Organized by Fr. CRIT,Vashi on 15/01/10.

b) STTP/Workshop/Seminars/Conferences attended:

1. Attended Online One-Week National Level Faculty Development Programme on “Artificial Intelligence, Machine Learning & Applications” from 25th July to 29th July 2022 organized by BHARATRATNA INDIRA GANDHI COLLEGE OF ENGINEERING, SOLAPUR.
2. Attended ATAL Online Elementary FDP on "Internet of Things: Concepts and Implementation" conducted by Online (SVKM'S NMIMS SCHOOL OF BUSINESS MANAGEMENT - INDORE) from 13/12/2021 to 17/12/2021.
3. Attended One Week FDP on Data Analysis in MS Excel (online mode) conducted by REST Society for Research International (RSRI) Krishnagiri, Tamil Nadu from 21 June 2021 to 25 June 2021.
4. Attended Webinar on Mastering the Mind on June 06, 2020 at Fr. C. Rodrigues Institute of Technology, Vashi.
5. Attended 2 days online workshop on “Fuzzy logic and neural network approaches for engineering solutions” on May 01,2020 and May 02, 2020 Organized by Journal of advanced engineering research & powered by hexacube India.
6. Attended Online Workshop on “artificial intelligence & Deep learning” from 04 - 08 May 2020 conducted by LeadingIndia.ai Bennett university, Greater Noida, India.
7. Attended Online workshop on creating & editing videos for online teaching on May 14, 2020 conducted by Dr. Nitsh Yelwe, Fr. C. Rodrigues Institute of Technology, Vashi.
8. Attended Online FDP on “Artificial intelligence & Machine learning using Python” from May 11-15, 2020 conducted by Finland Labs (A Unit of Revert Technology Pvt. Ltd.) In Association with National Social Summit, IIT Roorkee.

9. Attended two weeks workshop on “Embedded systems training” conducted by WE CAN EDUCATIONAL ORGANIZATION at Fr.CRIT, Vashi during 18th June to 29th June 2109.
10. Attended one week STTP on “Machine Learning” organized by Fr. CRIT, Vashi during 2nd January to 6th January 2018 at Vashi, Navi Mumbai.
11. Attended one week ISTE Approved STTP on “Storage Area Network” by Computer Engineering Department in Fr.C.R.I.T, Vashi on 27th -31st January 2014.

International Conferences Attended

- Attended International Conference on Nascent technology Vashi, Navi Mumbai, ICNTE-2015, 9th -10th January, 2015.
- Attended International Conference I-TechCON-2014 held at V.E.S. Institute of Technology, Mumbai on 3rd-4th January 2014.

National Conferences/Seminars Attended

1. Attended seminar on “Introduction to electronic components” by Mr. Sanjay on 13th August 2015.
2. Attended one-day departmental seminar “LOOPS 2K10 “Speech Processing” held at FCRIT, Vashi on 24/02/10
3. Attended a lecture under “EXTC Lecture Series” by Dr. Milind Shah on “Satellite Communication and Space Debris”.
4. Attended a lecture under “EXTC Lecture Series” by Mrs.Nilashree W. on “Packet switching and routing in telecommunication network” on 07/04/2010.
5. Attended 1-day seminar “Micro-2K10” organized by the department of Electronics & Telecommunication Engineering, Fr CRIT, Vashi, on 4/09/2010.
6. Attended departmental seminar MICRO 2K9 “Developments in Electronics” held at FCRIT, Vashi on 24/10/09.
7. Attended one lecture under “EXTC Lecture Series” by Dr. Milind Shah on “Technical Paper Writing” on 10/09/2009.
8. Attended a talk on “Learning & Teaching styles in Engineering Education” by Megha K. in Teachers’ Orientation Program on 01/08/09.
9. LOOPS 2K9 - one-day Seminar on “Recent Trends in Telecommunication” at Fr. C.R.I.T., Vashi on 21/02/09.
10. EXTC Lecture Series on “GSM mobile communication” by Harshal Nehete from Vodafone, Mumbai on 12/03/09.
11. EXTC Lecture Series on “Fixed point implementation of end point detection algorithm” by Mrs. Savitha Upadhya, Fr.C.Rodrigues Institute of Technology, Vashi on 27/02/09.

c) Winter/Summer schools

Nil

C. Training courses organized

- Organised Online Training Program On ‘Vector Network Analyzer’ Conducted by Anritsu India Pvt Ltd, at FCRIT, Vashi on 22nd February 2021.
- Organised Online training program on “Virtual lab using Thinkercad” on 20th February 2021 at Fr. CRIT, Vashi.
- Organised online “LabVIEW training” on 8th July 2021 at FCRIT, Vashi.
- Organised Workshop on NetSIM software on June 06, 2020 Fr. C. Rodrigues Institute of Technology, Vashi.
- Organized staff training program on “Software training on IE3D software” on 7th April 2017 at F.C.R.I.T, Vashi.
- Organized Farewell party for final year students on 8th April 2017 at F.C.R.I.T, Vashi.
- Member of food committee in ICNTE 2017.
- Member of publication committee in ICNTE 2015.
- Organized departmental seminar “LOOPS 2K10 “Speech Processing” held at FCRIT, Vashi on 24/02/10.
- Organized departmental seminar MICRO 2K9 “Developments in Electronics” held at FCRIT, Vashi on 24/10/2009.
- Organized LOOPS 2K9 - One day Seminar on “Recent Trends in Telecommunication” at Fr. C.R.I.T., Vashi. On 21/02/09.

D. Other achievements

a) Position held in University/National/International bodies

- Nil

b) Invited talks/Session Chairs

Nil

E. Administrative work

- **NAAC Criteria 4 coordinator.**
- **Conduction of IA 1 and IA2 in SH2022.**
- **Visited NDA Pune** with VII Sem Students for industrial visit, 30th October 2022.
- **First class teacher Sem I,2021**
- **BEE subject coordinator 2021**
- **TPC member in ICNTE 2021**
- **NBA (National Board of Accreditation) member** in EXTC deapartment.
- **NAAC Committee member, 2019**
- **First Class teacher** of Sem I, 2019
- **Visited Satellite Earth Station, Yeur , Thane** with Semester IV students on 1st April 2019, FH 2019.
- **Farewell Party Member, 2018, 2019.**
- **Second Class teacher** of Sem IV, 2018.
- **Visited “Jawaharlal Nehru Port” Uran** with semester IV students, FH 2018.
- **Conducted Internal Assessment I exam** in FH 2018.
- **Convener of staff training program.**
- **Convener of Farewell 2017.**
- **First class teacher of Sem IV, SH 2017.**
- **Visited “GPTS” Uran** with IV Sem Students for industrial visit, 2017.
- **Visited “GPTS” Uran** with III Sem Students for industrial visit, 2016.
- **Accreditation Committee member, FH 2016.**
- **Convener of University affiliation** from EXTC department.
- **Second Class teacher** of Sem III, SH 2015
- **Visited Goa IV** in SH2015.
- **First class teacher** of Sem III, SH 2014
- **Teacher In-charge** for the event “Singing elimination” organized under η-max2015
- **Teachers In-Charge** for the event “Coockery” organized under η-max2010.
- **Organized departmental seminar “LOOPS 2K10 “Speech Processing”** held at FCRIT, Vashi.
- **Second Class-Teacher** for Sem III EXTC.
- **Teacher In-Charge** for Chess, Table Tennis.
- **Exam cell committee member** (SH 2008-FH 2012).
- **Visited “GPTS” Uran** with V Sem Students for industrial visit, 2009.
- **Cleanliness committee member.**

F. Awards/Professional society membership/activities

- IETE
- ISTE

Place: Vashi

Date: 6/6/2023