



**Hon'ble Dr. Pantangraoji Kadam Saheb  
Founder, Bharati Vidyapeeth**

**BLESSINGS**

**Bharati Vidyapeeth's  
College of Engineering for Women, Pune**



*Participation of women in technology is an important aspect in social and economic development of the nation. It is a critical constituent in the process of improving the quality of life of women themselves. When women have economic empowerment, it is a way for others to see them as equal members of society. Through this, they achieve more self-respect and confidence by their contributions to their communities. As women play key roles in social transformation, Hon'ble Dr. Pantangraoji Kadam Saheb established Bharati Vidyapeeth's College of Engineering for Women, Pune in June 2000 with the vision, "Women empowerment through Technical Education" and provided opportunity to women for higher education in the field of technology. The institute was started exclusively for women and it is running with 100% women students. Establishing and running Women Engineering College really contributes to social transformation through dynamic education which is the vision of Bharati Vidyapeeth.*

# **Bharati Vidyapeeth's College of Engineering for Women, Pune**

Pune-Satara Road, Dhankawadi, Pune 411043

Recognized by AICTE, New Delhi, DTE Mumbai

Affiliated to Savitribai Phule Pune University, Formerly University of Pune

Accredited by NAAC

Id No.: PU/PN/Engg./150/2000, DTE College Code: EN6285

Phone: (020)24371684, (020)24361732 Fax: (020) 24372210

Email: coewpune@bharatividyaapeeth.edu, Website: <http://coewpune.bharatividyaapeeth.edu>

## **Undergraduate Programme**

Sr. No.	Course	Intake	Course Code
1	B.E. Electronics and Telecommunication Engg. (E & TC)	120	628537250F
2	B.E. Computer Engg. (CE)	60	628524550F
3	B.E. Information Technology (IT)	60	628524650F

## **Post Graduate Programme**

Sr. No.	Course	Intake	Course Code
1	M.E. (E & TC-VLSI & Embedded System)	9	628534150F

### **Vision:**

Women Empowerment through Technical Education

### **Mission:**

- Develop women students to rise to their full potential.
- Impart knowledge and prepare competent engineers.

### **Special Features:**

1. Received "Best Women College of the Year 2019" Award.
2. Recipient of "College of Substance" Award.
3. The oldest engineering college "exclusively for women".
4. All government scholarships are applicable for eligible students.
5. Placement opportunities in multinational companies with 100% assistance.
6. Excellent university results and tradition of consistent university rank holders.
7. MOUs with reputed industries and academia.
8. On campus hostel facility with 24 x 7 security.
9. DTE approved e-Scrutiny centre for admissions.

**Facebook:** <https://www.facebook.com/Bharati-Vidyapeeth-College-of-Engineering-for-Women-Pune-1599060517007121>

**Instagram:** [https://instagram.com/bvcoew\\_pune?igshid=ep1a85ikhj6s](https://instagram.com/bvcoew_pune?igshid=ep1a85ikhj6s)



## Principal's Message



**Prof. Dr. S. R. Patil**

**Principal**

*Dear Students, parents and all the stakeholders,*

*Greetings from BVCOEW, Pune!*

*Hope you all are well and keeping good health. I am really delighted to release the e-newsletter 'Blessings...' Volume 6, Issue 1, A.Y. 2023-24 of our college. The e-newsletter serves as an excellent medium for showcasing the technical endeavours and accomplishments of both students and faculty throughout the semester.*

*The fact that we were able to organize so many extracurricular and technical events for our students during the semester makes me content and glad. Participation in a wide range of extracurricular and technical activities can enrich students' educational experiences and contribute to their personal growth.*

*I highly appreciate the team efforts of Coordinator, all Chief Editors and Editors for making of the e-newsletter a grand success. I also extend my best wishes to the student editorial team. The e-newsletter is the outcome of great teamwork and we always believe in "TEAMWORK IS THE KEY TO SUCCESS".*

## Internal Quality Assurance Cell (IQAC)

### **IQAC Objectives:**

- To imbibe quality environment at institute in all academic and administrative processes.
- To be instrumental in review of teaching learning process, structures, methodologies and student centric methods for achieving best educational environment.

### **Roles and responsibilities of IQAC:**

- Keeping regular updates of NAAC and other quality improvement circulars.
- Conducting regular meetings of IQAC.
- Preparing Strategic plan of the institute.
- Preparation and submission of Annual Quality Assurance Report (AQAR) yearly.
- Maintaining academic records and conducting various audits at required intervals.
- Taking review of updating and updation of hardware and software requirements and internet facilities.
- Updating feedback forms as per guidelines from regulatory bodies.
- Providing guidelines for implementing ERP.
- Organizing various technical and nontechnical events.
- Preparation of reports of various activities for quality improvement.

### **Members List:**

Sr. No.	Name of the IQAC Member	Designation	Position
1	Dr. S. R. Patil	Head of the Institute	Chairperson
2	Prof. D. D. Pukale	HOD, Computer Engineering	Teacher Representative
3	Dr. D. A. Godse	HOD, Information Technology	Teacher Representative
4	Dr. A. M. Pawar	HOD, Engineering Sciences and Allied Engineering	Teacher Representative
5	Dr. K. A. Malgi	ICT & IT Infrastructure Coordinator Member	Teacher Representative
6	Prof. Thorat S.M.	Alumni Coordinator	Teacher Representative
7	Prof. P. D. Kale	Placement cell Coordinator	Teacher Representative
8	Dr. V. R. Pawar	Academic & Research Coordinator	Teacher Representative
9	Dr. S. M. Rajbhoj	Industry institute Interaction	Teacher Representative
10	Prof. S.T. Khot	Professor E & TC	Teacher Representative
11	Dr. K. D. Jadhav	Joint Secretary of Bharati Vidyapeeth	Member of Management
12	Dr. S. F. Patil	Executive Director of Bharati Vidyapeeth	Member of Management
13	Mrs. V. S. Kadam	Office Superintendent	Admin. Representative
14	Dr. V. M. Mohite	Librarian	Admin. Representative
15	Ms. Shital Patil	Alumni	Admin. Representative
16	Ms. Khushi Pramod Mittal	Student	Student Representative
17	Mr. Nitynand Tendulkar	Industry	Industry Representative
18	Mr. Sanjaykumar Gupta	Parent	Parent Representative
19	Dr. S. S. Chorage	Professor E & TC	IQAC Coordinator, NAAC Central Coordinator

## From the Desk of Coordinator...



**Prof. Ms. N.A. Mulla**

**Newsletter Coordinator**

*We are forever grateful for the blessings of the Honorable founder of Bharati Vidyapeeth, Dr. Patangraoji Kadam Saheb. With his guidance, our institute continues to strive for continuous improvement and progress.*

*We take pride in sharing the technical activities and achievements of our students and staff with our stakeholders through our e-newsletter. We are thankful to the eminent speakers and experts from industries, companies, academia, and alumnae for their valuable training and guidance to our students in various technical activities. Their cooperation helps bridge the gap between the industry and the institute. We extend our special thanks to the esteemed recruiters who have selected our students through placement activities and are providing opportunities for them to work at their companies.*

*I would like to express my gratitude to Prof. Dr. S. R. Patil, Principal, and Prof. Dr. D. A. Godse for their unwavering support. I also appreciate the efforts of the editorial team of the e-newsletter, whose dedication ensures the timely release of each semester's issue.*

*With proud presenting herewith...*

*E-newsletter, Volume 6, Issue 1, AY 2023-24.*



# Department of Electronics and Telecommunication Engineering

## Vision

To develop women professionals to become a valuable resource for industry and society through E&TC Engineering.

## Mission

- To provide quality and value based education for women in the field of E&TC Engineering.
- To train women to keep pace with rapidly changing technological needs of industry and research.

## Program Educational Objectives (PEOs) (UG)

PEO 1: Ability to apply electronics knowledge, to identify formulates and solve Engineering problems.

PEO 2: Acquire knowledge to find out workable solutions in the field of Telecommunication.

PEO 3: Exhibit programming skills with the use of various software tools.

PEO 4: Inculcate continuous learning through interdisciplinary approach.

## Program Educational Objectives (PEOs) (PG-VLSI and Embedded Systems)

PEO 1: Graduates will be employed and continuing research using knowledge and skill set in VLSI & Embedded system domain.

PEO 2: Graduates will work in inter-disciplinary environment.

PEO 3: Graduates will have ability to face challenges in professional practices.

# Department of Electronics and Telecommunication Engineering

## Head of Department's Message



**Prof. Dr. S. R. Patil**

### Head of Electronics and Telecommunication Engineering Department

The Department of Electronics and Telecommunication Engineering offers a top-notch learning environment with dedicated, highly competent, and experienced staff members who are driven to help students enhance their technical talents. Additionally, students are encouraged to take part in a variety of non-technical and technical events, paper presentations, and national project displays. All of the newest hardware equipments and software such as Virtex-5 Kits, Satellite Trainer Kits, MATLAB, Xilinx, and LABVIEW etc. are available in the department. Through these many benefits and perks, the department hopes to advance professions, widen minds, and provide once in a lifetime experiences.

It makes me feel incredibly happy and proud to be writing this message for this newsletter edition. My deepest compliments go out to the staff and student team that worked so hard to prepare this edition. Together, we have not only navigated challenges but also embraced opportunities for growth and innovation.

The Newsletter team should be commended for their concept for an electronic newsletter, which will undoubtedly benefit the Institute's stakeholders and be environmentally friendly. After this little overview, let me extend a warm greeting to everyone for this edition of the newsletter, Volume 6, Issue 1 with a quote by famous scientist and inventor, Mr. George Carver, "When you do the common things in life in an uncommon way, you will command the attention of the world."

## Placement Training by Campus Credentials

Training and placement cell of Bharati Vidyapeeth's College of Engineering for Women organized "Placement Training" by Campus Credentials for final year students of all departments. The speakers for this training were Mr. Rohit Runwal, Mrs. Sapana Sood and Mr. Ronak Mitra. The duration of the training was 5<sup>th</sup> July 2023 to 29<sup>th</sup> July 2023, where the training was categorized into three broad aspects consisting of Aptitude, Soft Skill and Technical knowledge.

The first Session based on Soft skills, was conducted on 5<sup>th</sup> July 2023 by Mrs. Sapana Sood. In this session, she covered communication skills, group discussion, tips on public speaking, professional resume building body language etc. She also conducted demo sessions on "How to face interview".

The second Session based on Aptitude, was conducted from 19<sup>th</sup> July to 22<sup>nd</sup> July 2023 by Mr. Rohit Runwal. The session included practicing examples on number system, puzzles, profit and loss, time and work, as well as set theory. He also covered problem solving on ratio and proportion, partnership, problems on train, boats and streams, probability etc.

The third session on Technical knowledge was conducted from 26<sup>th</sup> July to 29<sup>th</sup> July 2023 by Mr. Ronak Mitra, in which he covered concepts of Python, Object Oriented Programming, Data Structure and discussed some problems from Hacker Rank with solutions.





## Seminar on Current Technologies used in Electric Vehicles



The Electronics and Telecommunication Engineering department hosted a seminar on the topic of "Current Technologies used in Electric Vehicles" by Mr. Prakash Malvatkar, who is a member of the K J College of Engineering & Management Research, Pune, on September 13, 2023. The seminar was intended for students of second year. Professor Dr. S. R. Patil, Principal and Head of the Department presented the keynote address.. He enthusiastically welcomed the speaker and engaged in conversation with the students describing the recent trends in electric field.

During this session, the speaker, Mr. Prakash Malvatkar, brought attention to the most important aspects that were being discussed. He began by introducing himself and discussing his professional skills. He had a significant amount of teaching experience spanning several years. Next, he explained what electric vehicles are, their function, the benefits they offer, and the potential they have in the future. In addition to that, he presented an explanation of the recent developments that have taken place in India as well as the significance of electric vehicles in the modern era. He offered direction and discussed the project's potential in the future. The numerous components that are required for electric vehicles and the batteries that are used were also explained. A number of recent developments and alterations that make use of AI systems have been observed. He provided a concise explanation of the whole experience he had gained over the course of the previous years, and he did it in the form of a flow chart and diagrams since he believed that this would be easier to comprehend. As the seminar came to an end, he informed the students of the significant aspect of their future applications. We were able to gain a deeper comprehension of this field as well as a diverse range of concepts thanks to this. He concluded by providing the students with some examples that assisted in gaining understanding about the leading role in the electric vehicle sector. The students were really enlightened by vast exposure of this upcoming electric field.

# Technical Activities



SE: Seminar on “Advanced Data Structures” by Mr. Nagesh Mhetre (Click In Computer) on 22<sup>th</sup> August 2023.



TE: Seminar on “Discovery day AWS cloud workshop” by Mr. Amey Vaidya and Mr. Mr.Pranav Phadke (Brainfloss) on 25<sup>th</sup> August 2023.



SE : Webinar on “Improving Analytical Ability” by Mr. Raghunath on 1<sup>st</sup> September 2023.



TE: Seminar on “Internet of Things” by Prof. S. A. Itkarkar (BVCOEW) on 5<sup>th</sup> October 2023 .



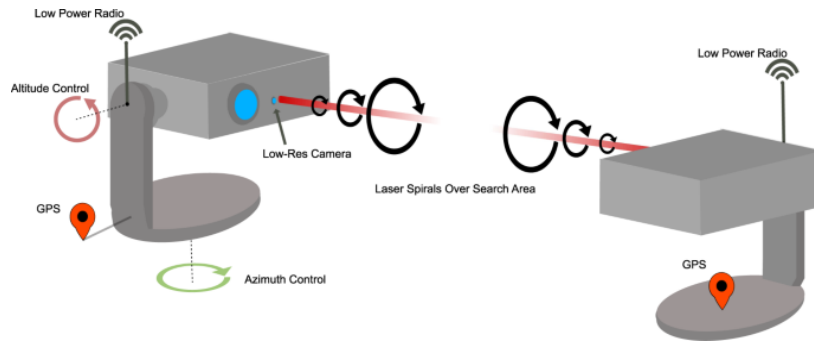
BE: Seminar on “Internet of Things Protocols” by Dr.R.R.Itkarkar (AISSMS) on 6<sup>th</sup> October 2023.



BE: Seminar on “Cloud Computing Applications, Job Market and Business Opportunities” by Mr. Mubeen Shaikh (Ironalytics Pvt. Ltd ) on 19<sup>th</sup> October 2023 .



## FREE SPACE OPTIC (FSO)



FSO, also known as optical wireless communication, uses lasers to transmit data through free space, typically in open air. This technology has gained attention for its potential in high-speed, point-to-point communication without the need for physical cables. FSO operates in the infrared spectrum and is capable of providing gigabit-per-second data rates. One of the key advantages of FSO is its ability to offer high bandwidth over short to medium distances. It's often employed in urban environments where laying fiber optic cables may be challenging or expensive. FSO systems consist of a transmitter and a receiver, each equipped with optical components like lenses and mirrors. The transmitter encodes data into optical signals, which are then sent through the free space to the receiver, where the signals are decoded. Despite its advantages, FSO is sensitive to atmospheric conditions, such as fog, rain, and atmospheric turbulence. These factors can affect signal quality and limit the range of FSO systems. To mitigate these challenges, adaptive optics and other techniques are employed to enhance signal reliability.

FSO technology is used in various applications, including telecommunications, enterprise networking, and military communications. It offers a viable solution for last-mile connectivity and can be quickly deployed in situations where traditional infrastructure is impractical. Several companies and research institutions are actively working on improving FSO technology. Advances in laser technology, beam steering and signal processing aim to enhance its reliability and performance. Additionally, hybrid solutions, combining FSO with other wireless technologies, are being explored to create more resilient communication networks.

In conclusion, Free Space Optic technology presents a promising solution for high-speed, wireless communication over short to medium distances. While it faces challenges related to atmospheric conditions, ongoing research and technological advancements continue to improve its reliability and expand its range of applications. As the demand for high-bandwidth connectivity grows, FSO remains a compelling option for addressing specific communication needs in diverse environments.



**Ms. Bhakti Jagtap**  
(2015 Batch Alumna)  
Director- Vertical Techsoft, Pune,  
India

## Faculty Achievements



### ***Prof. Dr. S.R. Patil***

*A Patent published on the topic “Deep Learning-based abnormal events detection and localization system for smart surveillance and its method thereof” on 29/12/2023. (Application No. 202321080269)*



### ***Prof. Dr. S. S. Chorage***

*A Patent granted on the topic “Sensing and simulation system and method for exhaust air particulates exhausting from a device” on 18/12/2023. (Application No. 202221027698, Patent No. 483975)*



### ***Prof. Dr. V.R. Pawar***

*A Patent granted on the topic "System method and device for non invasively identifying chronic kidney diseases from saliva of user” on 29/11/2023.(Application No. 2023/04407)*



### ***Prof. S. A. Itkarkar***

*Appointed as NSS District Coordinator by NSS, SPPU (Savitribai Phule Pune University), Pune for academic year 2023-24.*



### ***Prof. V. P. Mulik***

*A Patent granted on the topic "An FPGA based automated crop control system and method”. (Application No. 3521/MUM/2011, Patent No. 427914).*



### ***Prof. Dr. Smita S. Jadhav***

**(Department of Engineering Sciences and Allied Engineering)**

*A patent on “A Method and Composition for Purification of Textile Waste-water by Acid Doped Polyaniline (PANI)” was granted on 11/08/2023. (Application No. 202021025428, Patent No. 444597).*

## Our Esteemed Recruiters



Reliance





## Placements from June 2023 to December 2023

Sr. No.	Name of the Student	Company	Sr. No.	Name of the Student	Company
1	MANSI KARADKHEDKAR	AMDOCS	15	SHIVANI HARGE	VODAFONE IDEA
2	SANIKA SALUNKHE	AMDOCS	16	ISHWARI JADHAV	VODAFONE IDEA
3	DHANASHREE KADAM	IBM	17	MRUNAL MASLEKAR	VODAFONE IDEA
4	AKANKSHA PRAJAPATI	VODAFONE IDEA	18	KALYANI RALEBHAT	VODAFONE IDEA
5	SHRUTIKADESHMANE	VODAFONE IDEA	19	VAIDEHI PATIL	VODAFONE IDEA
6	SANSKRUTI DHAGE	VODAFONE IDEA	20	ANJALI GAVALI	VODAFONE IDEA
7	GAYATRI GHADGE	VODAFONE IDEA	21	ARCHANA KANDALKAR	VODAFONE IDEA
8	HRUCHA GOHAD	VODAFONE IDEA	22	SAKSHI DALVI	VODAFONE IDEA
9	ARPITA JADHAV	VODAFONE IDEA	23	VAISHNAVI JAGADALE	VODAFONE IDEA
10	KHUSHI MITTAL	VODAFONE IDEA	24	AARTI BHOSALE	VODAFONE IDEA
11	SAKSHEE PAWAR	VODAFONE IDEA	25	SAEE KAD	VODAFONE IDEA
12	BHAGYASHRI ZENDE	VODAFONE IDEA	26	SHRAVANI KODAM	VODAFONE IDEA
13	ASHWINI MASAL	VODAFONE IDEA	27	PRAJAKTA SHINDE	VODAFONE IDEA

# Editorial Board



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*Principal, BVCOEW and H.O.D.(E&TC)*



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*Newsletter Coordinator*



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