



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. Patangraoji 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.
- 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



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 5, Issue 2, A.Y. 2022-23 of our college. The e-newsletter is very powerful platform to present all the technical activities, achievements of students and teachers during last semester.

I am happy that we could conduct many technical and extracurricular activities for our students in the last semester. Conducting a variety of technical and extracurricular activities can greatly enhance students' educational experience and helpful for their overall personality development.

I highly appreciate the team efforts of Coordinator Prof. Dr. Deepali Godse, 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".

Coordinator's Message



Prof. Dr. D. A. Godse
Newsletter Coordinator

We are blessed forever by Honorable founder of Bharati Vidyapeeth, Dr. Patangraoji Kadam Saheb. With his blessings, our institute is on the path of continuous improvement and progress.

We feel proud to share technical activities and achievements of our students and staff with our stakeholders via e-newsletter. We are grateful to all eminent speakers and experts from industries, companies, academia and alumnae for providing training and guiding our students through various technical activities. Their cooperation helps us to bridge the gap between industry and institute. Our special thanks to the esteemed recruiters who have selected our students through placement activity and are providing opportunities to work at their companies.

As said by Gary J. Shapiro, an acclaimed author, lobbyist, and the president and CEO of the Consumer Technology Association, "Connectivity and technologies are not only solving some of the biggest problems in the world, but they're also enhancing the experience for everyone".

I am thankful to Prof. Dr. S. R. Patil, Principal for his all-time support. I appreciate efforts of editorial team of e-newsletter which helps a lot to reveal e-newsletter issue in time at the start of each semester.

With proud presenting herewith..

e-newsletter, Volume 5, Issue 2, AY 2022-23.

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)

- *Ability to apply electronics knowledge, to identify formulates and solve Engineering problems.*
- *Acquire knowledge to find out workable solutions in the field of Telecommunication.*
- *Exhibit programming skills with the use of various software tools.*
- *Inculcate continuous learning through interdisciplinary approach.*

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 provides a top-notch learning environment with a geared up faculty members that are devoted, highly skilled and experienced to motivate students to advance their technical abilities. The department has all of the most recent software and hardware equipments including Virtex-5 Kits, Satellite Trainer Kits, MATLAB, Xilinx, and LABVIEW. The department is dedicated to improving careers, broadening minds, and offering once-in-a-lifetime experiences through these many perks and programs. Students are also encouraged to participate in different technical and non technical activities, paper presentations, project exhibitions on national level.

Writing the message for this edition of newsletter makes me feel immensely jubilant and proud. The team of staff and students, who toiled long and hard to prepare this edition, have my sincere congratulations.

The Newsletter team deserves appreciation for their cutting-edge idea for an electronic newsletter, which is unquestionably a green idea and will also be helpful to the Institute's stakeholders. After this brief review, I want to welcome everyone to this Volume 5, Issue 2 edition of newsletter. I would like to conclude with a quote from Iron Lady of India, Mrs. Indira Gandhi "Satisfaction lies in the effort; not in the attainment. Full effort is full victory".

“Avinya23 - Technical Festival”



Bharati Vidyapeeth's College of Engineering for Women, Pune organized two-days Technical Festival, Avinya-23 on 27th and 28th April 2023.

The inaugural function of the Technical Festival was held on 27th April. The chief guest for the inaugural function was Mr. Vivek Sawant, Chief Mentor, MKCL. The guests of honour for the inaugural function were Dr. V.V. Shete, Chairman IETE Pune Local Centre, and Dr. K.D. Jadhav, Joint Secretary, Bharati Vidyapeeth, Pune.

Prof. R. M. Shamalik, Co-coordinator of the Technical Festival briefed about events in Technical Festival, and Prof. Dr. S. M. Rajbhoj, Co-ordinator of the Technical Festival Avinya-23, introduced the Chief Guest, Guests of Honour followed by the felicitation of all the dignitaries on the dais.

Prof. Dr. S. R. Patil, Principal, Bharati Vidyapeeth's College of Engineering for Women, Pune, gave a wonderful welcome speech, which was followed by inspirational speeches of the guests of honour Dr. K. D. Jadhav and Dr. V. V. Shete. Mr. Vivek Sawant, Chief Guest of the event, presented a wonderful PowerPoint presentation and enlightened all the students. It was a great pleasure to listen to an individual who has such a wealth of knowledge. The program ended with Vote of Thanks presented by the General Secretary of Avinya-23, Miss. Tanushree Desale.

After the inaugural function, everyone proceeded towards the college to witness the Technical Festival. All the dignitaries cut the ribbon in respective laboratories where various events of the Technical Festival were happening. On 27th April, Technovations (Project Competition), Intellectual Exchange (Paper Presentation), Yukti (Business/Entrepreneurship Poster Presentation), Screen War (Gaming Zone) and on 28th April, Aarohana (Startup Pitch Idea), Robo Maze (Robo Race), Techtrix (Technical Quiz), Prayaas (Portfolio Building), Haktech (Hackathon) were scheduled.

Both days saw active participation of students from various colleges in Pune. Faculty and Student Co-ordinators helped in the smooth functioning of the festival. Overall, Avinya-23 was a grand success, and it provided an excellent platform for engineering students to showcase their talents, skills and learn from industry experts.

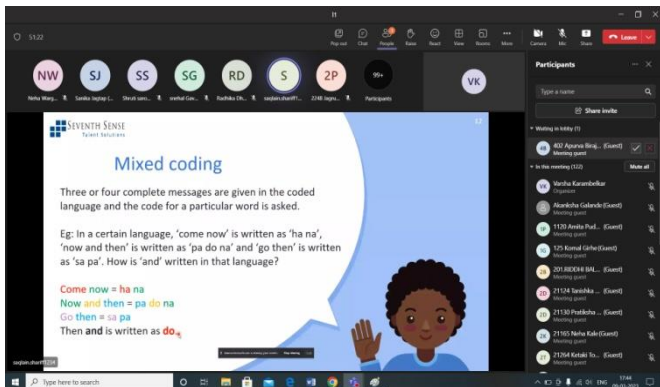
Workshop on *Circuit Building and PCB Making*



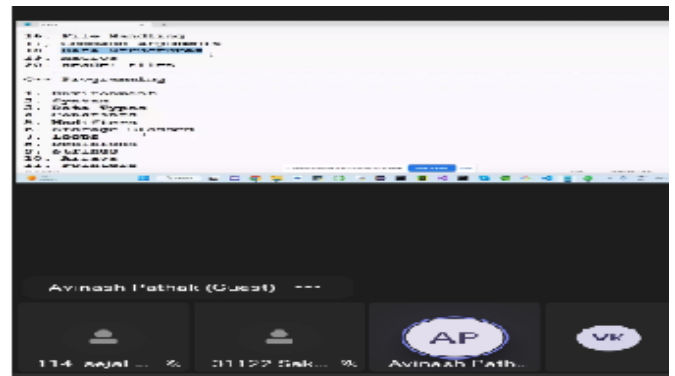
A three days workshop on “*Circuit Building and PCB Making*” was organized by Electronics and Telecommunication Department for Second Year (SE) students in association with Dolphins Labs from 10th April 2023 to 12th April 2023. The speaker of the workshop was Mr. C.P. Mahajan, the Founder & CEO of Dolphin Labs. The session started with the inauguration function in which Prof. Dr. S. R. Patil, Principal explained the motive of the workshop and also elaborated on how such kind of workshops will enhance the personality of an electronics and telecommunication engineer. The introduction of speaker was given by workshop coordinator Prof. P. R. Yawle.

After the inauguration ceremony, Mr. C.P. Mahajan started the workshop by giving an overview of the contents of the workshop and tools required to build a circuit on PCB. He taught about the electronic components and connections on a bread board and gave the introduction and applications using IC 555. The hands-on session started small projects built using IC 555 and other components, which were mounted on a breadboard. Next day started with the session of virtual design of PCB layout using the *Express PCB Software*. The resource person also enlightened on how to design PCB layouts while keeping manufacturing costs in mind. On the last day of workshop, the layouts created by the students were printed and transferred to the PCB boards. The students drilled the holes on PCB and tried etching using Ferric Chloride. The resource person also gave industry exposure and overview. Lastly, a question-and-answer session was held which was an interactive session where students cleared their doubts on various aspects from Mr. C. P. Mahajan and also elaborative and valued feedback was given by students. The vote of thanks was delivered by Miss. Ananya Wagh, student and class representative of Second Year (SE-II). Overall, the workshop was very beneficial and students were happy that they got an opportunity to learn the hand-on session from Mr. C. P. Mahajan. With the determination and hard work of Head of Department and Principal, Prof. Dr. S. R. Patil and workshop coordinator, Prof. P.R. Yawle and student coordinators, this workshop was an absolute success.

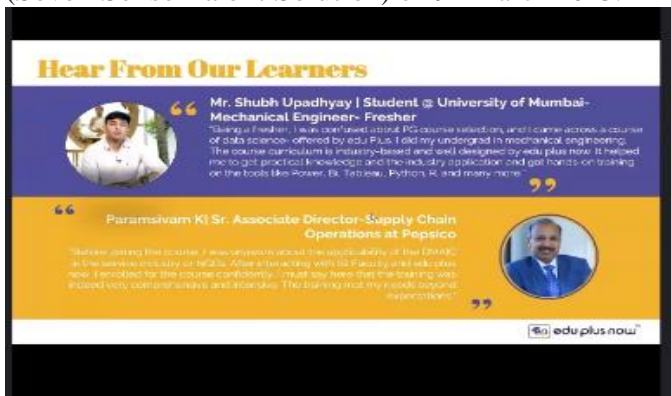
Technical Activities



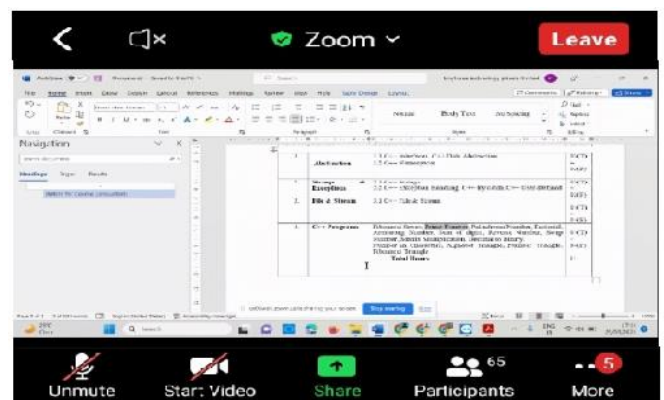
TE: Webinar on “Training Demo session on Aptitude and Technical” by Mr. Aditya Wakodkar (Seven Sense Talent Solution) on 9th March 2023.



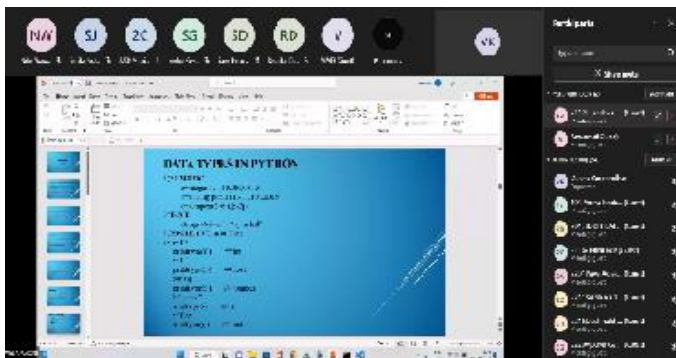
TE: Webinar on “Training Demo session on Aptitude and Technical” by Mr. Avinash (Carpe Diem Boot Camp) on 11th March 2023.



TE: Webinar on “Training Demo session on Aptitude and Technical” by Mr. Vishal (EDU Plus) on 21th March 2023.



SE: Webinar on “Coding Super Power” by Ms. Bhakti (BrightSea Technology Pvt. Ltd.) on 25th March 2023.

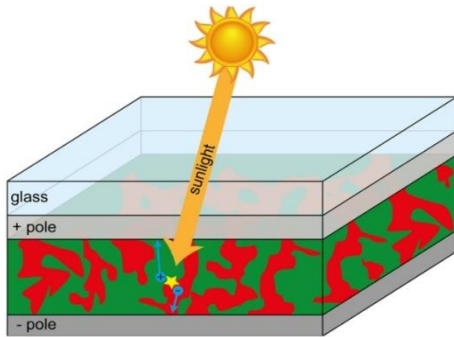


BE, SE: Webinar on “Training Demo session on Aptitude and Technical” by Mr. Aditya Wakodkar (Seven Sense Talent Solution) on 25th March 2023.



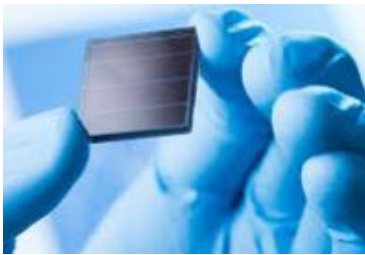
TE: Webinar on “Placement Assessment test” by Mr. Dipendra Wagh (Campus Credentials) on 11th April and 13th April 2023.

Plastic Solar Energy



Plastic solar cells, also known as organic or polymer solar cells are a type of photovoltaic (PV) technology that utilizes organic materials to convert sunlight into electricity. Unlike traditional silicon-based solar cells, plastic solar cells are made from lightweight and flexible organic compounds, such as polymers or small molecules. The working principle of Plastic solar cells is that it operates on the principle of the photovoltaic effect. When sunlight hits the organic material in the cell, it excites electrons, creating electron-hole pairs. These pairs are then separated at the interface between two different layers of organic material,

creating a flow of electricity. The active layer of plastic solar cells typically consists of a blend of conjugated polymers or small molecules. These materials have unique electronic properties that allow them to absorb a broader spectrum of light compared to traditional silicon-based solar cells. This broader absorption spectrum enables plastic solar cells to generate electricity even under low light conditions. Plastic solar cells consist of a plastic layer on glass or a flexible foil. In the lab, we use glass plates with a transparent electric contact (the positive (+) pole). On top of this contact, the ink for the active layer is placed, which is the part of the solar cell that converts sunlight to electricity. This ink contains two polymers, a long green one and a shorter red one. The polymers form a mixed layer as shown in the first figure. On top of that layer, a metal layer is placed, which functions as the negative (-) pole. The whole stack of layers is turned upside down such that sunlight can shine through the glass into the active layer. There is a lot of interface or area of contact between the two polymers. This is necessary because sunlight creates electrical charges only at the areas where the two polymers are in contact. When the light is absorbed (the yellow star), positive (+) and negative (-) electrical charges are generated. Normally, the + and - attract each other and the energy is lost. In plastic solar cells, the red and green polymers make sure the charges can be separated. The positive and negative charges then move to the + and - poles. Now light is converted to moving charges which is electricity!



Plastic solar cells can be manufactured using low-cost and scalable processes which makes them potentially more cost-effective than traditional solar cell technologies. The printing techniques mentioned earlier enable large-scale production, reducing the manufacturing costs associated with expensive fabrication methods. The efficiency of plastic solar cells has been steadily improving over the years. While they may not currently match the high efficiencies of silicon-based solar cells, research and development efforts have resulted in significant progress. The current state-of-the-art plastic solar cells have achieved power conversion efficiencies of over 18% with some

laboratory prototypes reaching even higher efficiencies.



Ms. Shweta Vetal
(2022 Batch Alumna)
VOIS, Pune, India

Achievements

Staffs' Achievement



Prof. Dr. S. R. Patil

Felicitated with Award of Recognition by London School of Digital Business at LIAC 2023.



Prof. S. A. Itkarkar

Appointed as NSS District Coordinator by NSS, SPPU (Savitribai Phule Pune University), Pune in December 2022.

Students' Achievement

*The BE E&TC project group, **Ms.Sayli Patil, Ms.Mitali Waghmode and Ms.Shrutika Pawar** has won First prize in Impectus and Concept23, International Level Project Competition cum exhibition for their project, “IoT based Child Tracking and Safety System” under the guidance of Prof. Dr. S. S. Salunkhe organized by PICT on 22nd and 23rd April 2023, Pune.*

Department of Engineering Sciences and Allied Engineering

Sr. No.	Name of the Student	Name of the Scholarship	Amount(Rs.)
1	Akshada Vilas Bombe	Lila Poonawalla foundation Scholarship	60,000
2	Anuja Santosh Adhav	Lila Poonawala foundation Scholarship	60,000
3	Asha Chandrakant Kandrup	Lila Poonawala foundation Scholarship	60,000
4	Shaikh Ayesha Haque	Lila Poonawala foundation Scholarship	55,000
5	Chaitali Deshmukh	Lila Poonawala foundation Scholarship	60,000
6	Harshali Sanjay Shewale	Lila Poonawala foundation Scholarship	60,000
7	Janhvee Sharad Jagtap	Lila Poonawala foundation Scholarship	60,000
8	Kajal Shivaji Rokade	Lila Poonawala foundation Scholarship	60,000
9	Khushi Dattatery Deshmukh	Lila Poonawala foundation Scholarship	60,000
10	Nakshatra Navnath Shinde	Lila Poonawala foundation Scholarship	55,000
11	Nishtha Shrirang Parande	Lila Poonawala foundation Scholarship	60,000
12	Payal Sanjay Jadhav	Lila Poonawala foundation Scholarship	60,000
13	Pranali Santosh Barge	Lila Poonawala foundation Scholarship	60,000
14	Purva Chandrakant Kharche	Lila Poonawala foundation Scholarship	50,000
15	Ruchi Dhanjay Patil	Lila Poonawala foundation Scholarship	55,000
16	Saishri Niyanta Mane	Lila Poonawalla foundation Scholarship	60,000
17	Sanika Prashant Vaidya	Lila Poonawala foundation Scholarship	60,000
18	Sanika Shebrao Deokar	Lila Poonawala foundation Scholarship	60,000
19	Sanjana Santosh Chavan	Lila Poonawala foundation Scholarship	55,000
20	Shravani Parbhat Chavan	Lila Poonawala foundation Scholarship	60,000
21	Shreyasee Suhas Patil	Lila Poonawalla foundation Scholarship	60,000
22	Shweta Narayan Gogawale	Lila Poonawala foundation Scholarship	40,000
23	Siddhi Anil Bhujal	Lila Poonawala foundation Scholarship	55,000
24	Srushti Vyenkat Sawant	Lila Poonawala foundation Scholarship	60,000

Sr. No.	Name of the Student	Name of the Scholarship	Amount (Rs.)
25	Tanvi Ramesh Patare	Lila Poonawala foundation Scholarship	60,000
26	Vaishnavi Balaji Mugale	Lila Poonawala foundation Scholarship	60,000
27	Farin Farooq Attar	Lila Poonawala foundation Scholarship	55,000
28	Eshani Ghanwat	Kiran scholarship of Persistent Foundation	40,000
29	Vaishnavi Patil	Kiran scholarship of Persistent Foundation	40,000
30	Vaishnavi Zagade	Kiran scholarship of Persistent Foundation	40,000
31	Dhanashri Kailas Nanekar	Katalyst Scholarship	15,000
32	Durgeshwari Bhaisade	Katalyst Scholarship	15,000
33	Janhvi Jaysing Kadam	Katalyst Scholarship	15,000
34	Namrata Gund	Katalyst Scholarship	15,000
35	Pranali Santosh Barge	Katalyst Scholarship	15,000
36	Pratiksha Laxman Kadam	Katalyst Scholarship	15,000
37	Sakshi Navnath Ighe	Katalyst Scholarship	15,000
38	Sakshi Shelke	Katalyst Scholarship	15,000
39	Sakshi Vitthal Sonawane	Katalyst Scholarship	15,000
40	Sanika Shebrao Deokar	Katalyst Scholarship	15,000
41	Shruti C Khandagale	Katalyst Scholarship	15,000
42	Shweta mane Deshmukh	Katalyst Scholarship	15,000
43	Tanisha Nipunge	Katalyst Scholarship	15,000
44	Tanuja Sawant	Katalyst Scholarship	15,000
45	Vaishnavi Hambire	Katalyst Scholarship	15,000
46	Vaishnavi Mugale	Katalyst Scholarship	15,000
47	Vaishnavi Zagada	Katalyst Scholarship	15,000
48	Vijeta pawar	Katalyst Scholarship	15,000

Our Esteemed Recruiters



Reliance



Placements from December 2022 to May 2023

Sr. No.	Name of the Student	Company
1	KAMTHE DISHA DILIP	AMDOCS
2	VANSHIKA ANIL SABLE	ACCENTURE
3	SHREYA SANJAY JADHAV	ACCENTURE
4	TANUSHREE DESALE	CAPGEMINI
5	AARTI SWAMI	AMDOCS
6	DIYA NITIN JITURI	AMDOCS
7	JIDNYASA BHOGE	TCS
8	JAHAGIRDAR MRUNAL	VODAFONE
9	NEHA RAWAT	VODAFONE
10	JIDNYASA BHOGE	VODAFONE
11	AARTI SWAMI	VODAFONE
12	RUTUJA PATIL	VODAFONE
13	ADYA PATHAK	STANDARD CHARTERED GBS
14	MADHVI SONONE	STRIDLEY SOLUTION
15	ISHIKA ARUN BHIOGADE	STRIDLEY SOLUTION
16	SNEHAL SACHIN PAWAR	ACCENTURE
17	ANISHA CHAGAN GADADE	SPARK MINDA
18	WAGHMODE MITALI ANKUSH	SPARK MINDA
19	DHARNE RUSHIKA KISHOR	SPARK MINDA
20	KONGE SALONI ANIL	SPARK MINDA
21	VIDHALE SHARYU AVINASH	SPARK MINDA
22	SHRUTIKA BHARAT PAWAR	SPARK MINDA

Editorial Board



Prof. Dr. S. R. Patil
Principal, BVCOEW and H.O.D.(E&TC)



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Newsletter Coordinator



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Chief Editor (E&TC)



Prof. K. D. Mahajan
Editor (E&TC)



Prof. Dr. S. S. Jadhav
F.E. Staff



Prof. D. P. Chopade
F.E. Staff



Tanushree Desale
(B.E. E&TC)



Nikita Kendre
(T.E. E&TC)



Sakshi Seth
(S.E. E&TC)



Niharika Nikose
(B.E. E&TC)



Khushi Mittal
(T.E.E&TC)



Siddeshri Kunnure
(S.E.E&TC)