

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@bharatividyapeeth.edu, Website: http://coewpune.bharatividyapeeth.edu

Undergraduate Programme

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

Post Graduate Programme

Sr. No.	Course	Intake	Course Code
1	M.E. (E & TC-VLSI & Embedded System)	18	628534150

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 24×7 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



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 4, Issue 2, A. Y. 2021-22 of our college. After 2 years of COVID-19 pandemic and online education we have once again started functioning in 'offline' mode from February 2022 with all necessary safety precautions. Once again we are enjoying the liveliness of academic in classrooms and laboratories with our dear students.

The e-newsletter is very powerful platform to present all the technical activities, achievements of students and teachers during last semester. I highly appreciate the team efforts of Coordinator Prof. Dr. Deepali Godse, Chief Editors and Editors for making 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".

From the Desk of Coordinator...



Prof. Dr. D. A. Godse

Newsletter Coordinator

Hello everyone!

I am extremely delighted and proud to announce the release of our e-newsletter, Volume 4, Issue 2, AY 2021-22. It's a pleasure that after two years our institute has organized activities in offline mode again with hard work and keeping in mind the safety and security. Our editorial team enthusiastically worked as usual for reflecting these activities via e-newsletter. We are back with photographs of all activities organized in the institute physically during last semester instead of the screenshots of online events as done for last four semesters. As the Greek philosopher, Heraclitus said, "Change is the only constant." We should be ready to accept the change and face the situations. Our young, dynamic and energetic students and staff easily adapted to the situations. In order to keep the stakeholders widely interested and updated, we release the e-newsletter at the start of each semester. The e-newsletter will serve to reinforce and allow increased awareness, improved interaction and integration among all of us.

I would like to extend my sincere thanks to our Principal, Prof. Dr. S.R. Patil, all Heads of Department, staff members and beloved students. I truly appreciate dedicated and systematic efforts of the editorial team members.

I am sure, this tradition of communicating the significant technical events and activities with our stakeholders will be continued forever with the blessings of our honourable Founder of Bharati Vidyapeeth, Dr. Patangraoji Kadam Saheb via e-newletter, "Blessings...".

Department of Information Technology

Vision

Globally competent women engineers through excellence in IT education.

Mission

- Develop requisite skills and competencies in the field of IT.
- Groom students for responsible and rewarding careers in the field of IT.
- Build confidence and personality development through curricular, co-curricular and extracurricular activities.

HOD's Message



Prof. Dr. D. A. Godse Head of Information Technology Department

With the college closure for almost two years due to the outbreak of the COVID-19 virus, colleges are slowly reopened again in the last semester. While most of the students are relieved to go back to college and are happy that they can interact with their friends, classmates and teachers in person rather than talking to them across a screen, the transition was challenging. The pandemic brought in a drastic change in the teaching-learning system. However, our faculty and students seamlessly accepted the changing scenario, i.e. online to offline and completed all the academic activities and also participated in co-curricular and extra-curricular activities enthusiastically along with academics. Despite the pandemic placements are good. The last year (BE) students participated in technical activities organized by various institutes in online/offline mode and also submitted papers to the journals for publication which is the tradition of IT department. We are happy that staff and students come back to offline mode with confidence. As said by Blake Lively, "The most beautiful thing that you can wear is confidence".

This e-newsletter is the reflection of all the activities and achievements of our staff and students during the last semester with creative efforts by our editorial team.

"Workshop on Excellent Bytes"

Workshop on "Excellent Bytes" was organized by Student Associations and Training cell of Bharati Vidyapeeth's College of Engineering for Women, Pune for Third year (TE) and final year (BE) students of all Departments. The webinar was organized under AICTE-SPICES grant on 11th February 2022. The speaker of the webinar was Mr. Aashish Jain from Carpe Diem Boot Camp.



Our college has received the AICTE: Scheme for promoting interests, creativity, and ethics among the students i.e., SPICES grant under the coordination of Prof. Dr. S.R. Patil, Principal, Bharati Vidyapeeth's College of Engineering for Women, Pune and Dr. V. R. Pawar, Associate Professor, Electronics and Telecommunication Department.

The first session of workshop started with the welcome speech by student member, Ms. Tanushree

Desai of TE E&TC. Prof. S. T. Khot, Training cell coordinator gave introduction of training cell followed by Dr. V. R. Pawar, who has given the information about SPICES grant. Then student member, Ms. Adya Pathak gave brief introduction of guest speaker, Mr. Ashish Jain. After this, Principal Prof. Dr. S. R. Patil addressed the audience. He gave Bharati Vidyapeeth's brief introduction, organization information, role of different cells in organization, importance of co-curricular activities along with academics.

Workshop started with a very beautiful interaction of speaker and students with the use of chat box. The session further followed by a brief on the self or one's desires, dreams, passions and motivations. The speaker interacted with students on each point, took inputs and gave the tips on how to increase their self-esteem, boost confidence and how one can excel in any area like coding, communication skill etc. Students were encouraged to be optimistic and have a positive approach about everything in life.

The next session of workshop was focused on discussion about some strategies of time management, goal setting, self-control, planning, execution, distraction overcoming and session about etiquette was very informative. Most importantly, it was emphasized that students should love themselves and never lose confidence in achieving goals. The speaker suggested new ideas on "how to overcome failure". It was well thought workshop of motivating students to discover themselves.

Institute Level Activities

Sr. No.	Date	Activity	Staff Coordinators	Organizing Cell/ Department
1	29-10-2021	Webinar on "Framework for technology driven Social Innovation"		
2	07-03-2022	Webinar on "Design Thinking for Innovation"	Ms. A. D. Khairkar	Institution's Innovation Cell
3	04-04-2022	Webinar on "IPR Awareness Program"		
4	29-01-2022	Webinar on "How to clear GATE exam in first attempt"		
5	19-03-2022	Webinar on "Study Abroad for Engineers" Mrs. V. D. Kulkarni		Career Guidance Cell
6	23-04-2022	Webinar on "How to prepare for competitive exams- UPSC/MPSC"		
7	31-01-2022 to 02-02-2022	Workshop on "Electronic Skill Development"	Ms. K.R. Chaudhari	Department of Electronics & Telecommunication

Major Technical Activity

Department of Information Technology has organized a workshop on "Developing a chatbot using Natural Language Processing" by Mr. Yogesh Murumkar, Director and Corporate Trainer, Bharat Soft Solutions, Pune on 21st and 22nd March, 2022 for TE IT students.

The program started with a welcome speech and the introduction of the speaker by Dr. Ketaki Malgi, faculty coordinator of MOU activity. The session started with the introduction of Natural Language Processing and its implementation. The speaker then enlightened the students about importance and role of chatbot in various applications. He also demonstrated how to build chatbot using Dialogue flow and to establish great conversational experience for users with Big Query. Further he described real world chatbot applications and various projects based on it created by their team. Moreover, he talked about his YouTube channel related to Artificial Intelligence.

The session ended with Vote of Thanks by TE IT student Ms. Aditi Takalkar. The session was remarkably interesting and interactive. Students got satisfactory answers to all their questions. The conduction of this MOU Activity was a remarkable success.





Industry-Institute Interaction

Sr. No.	Date	Activity	Industry/ Company	Class
1.	10-02-2022 to 14-02-2022 and 16-02-2022	Workshop on "Application Development using Python"	9Ledge Pro	SE IT
2.	19-03-2022	Workshop on "Software Development Life Cycle"	Accenture	SE IT
3.	22-03-2022	Seminar on "Importance of Java Full stack"	Link-Code Technologies	SE IT
4.	05-04-2022	Seminar on "Career and Placement Guidance"	KasNet Technologies Pvt. Ltd.	TE IT

Technical Activities



Workshop on "Funnel Marketing" by Ms. Ritika Kumari, Funnel Marketing Expert, Swaptechnobiz, Pune



Seminar on "Arduino for Beginners" by Mr. Atul Wadkar, Director, Algorithmic Electronics, Pune



Seminar on "Basics of Journal Paper Writing & Publishing" by Mr. Makarand Velankar, MKSSS's Cummins College of Engineering for Women, Pune



Seminar on "Applications of Data Structures" by Mr. Nagesh Mhetre, Clickin Computers, Pune



Webinar on "Game Theory for the Internet Age" by Dr. R. Ramanujam, Professor, Institute of Mathematical Sciences, Chennai

Clash of the Titans: Monolith vs Microservices

The traditional way of creating a software application is to have multiple teams work on one code base that comprises of user interface, business logic and a data access layer which interacts with the database. This modelling style of building software is known as a monolithic architecture.

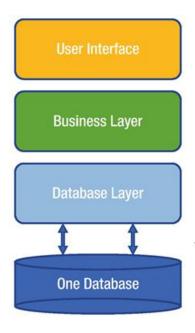


Fig.1 Monolithic Approach

The strength of this architecture is: applications are simple to build and easy to deploy. Additionally, single application enables faster bug fixing and easier management of core functionality like logging, caching, performance monitoring etc. This approach works well if your business idea is straightforward, and application has limited functionalities. It is also suitable for start-ups with tight budget and aiming to quickly launch an application to validate the business idea.

For the complex and evolving businesses, due to huge code base challenges are - keeping track of changes, adding new functionality to the tightly coupled application, longer deployment cycle, upgrading technology for a part of an application is almost impossible and scaling of an entire application is required as there are no components. It is important to note that there is an additional cost and lost opportunity involved while dealing with each of these challenges. This is where microservices or microservices architecture come into the picture.

In microservices architecture, an application is built as a collection of loosely coupled and independently deployable modules or services. Each service has a specific business function and typically, manages its own database. Services interact with each other through Application Programming Interfaces (APIs).

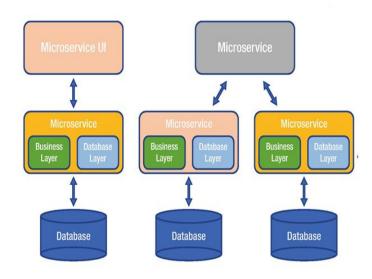


Fig.2 Microservices Approach

The most important strength of microservices is flexibility as each service can be independently updated, tested, and deployed. Thus, adding new functionalities or making any changes to the application is quicker in microservices architecture than monolithic architecture. Secondly, each service can have different technology stack which empowers building services using the most appropriate technology for its function. Microservices can be scaled cost-effectively using less infrastructure as individual components can be scaled, and load balanced instead of the entire application. Services are designed with high tolerance/isolation to ensure failure of one service doesn't result in an application failure. Usually, a service is managed by one team; however, one team can be responsible to manage one or more services. This way ownership is distributed, and multiple teams can work in parallel and independently.

Microservices flexibility comes at a cost of complex communication patterns between services. Keep in mind Microservices should be built only when tight coupling and scaling becomes a real pain for an application, also services should not be too micro. Each microservice should have CI/CD, logging, scaling, and monitoring mechanism in place. Some popular microservices design and communication patterns are:

Backend-for-frontend (BFF) Pattern: Separate backend services are created for specific

front-end applications like Desktop Web UI, Mobile Application UI etc.

Strangler Application Pattern: This pattern is used to migrate monolithic applications to microservice.

Service Discovery Pattern: As service instances change dynamically in the cloud environment, this helps applications and services to locate each other.

Saga Pattern: This pattern is useful for transaction execution of a transaction that spans over multiple microservices.

Microservices architecture offers a superior way to build complex and evolving applications, manage huge datasets and to automate the deployments. Does this mean, every organization should switch to microservices just like Google, Amazon, and other tech companies? The answer is No – it is not one-size-fits-all. Before opting for microservices architecture, an organization must consider business complexity, culture, future scope, and budget.



Ms. Mayuri Gandhi Ex-Sr. Business Analyst, Mastercard, India Santa Clara, California, US

(Alumna, Batch 2007-08)

Achievements

Staff



Prof. Dr. Sandip Thite

Prof. Sandip Thite has been awarded Ph.D. in Computer Science and Engineering by Bharati Vidyapeeth (Deemed to be University) on 27th April, 2022 for his research on "Design and Development of Security algorithm for Cyber Physical System to prevent Cyber-attacks".

Student

Khajure Manisha from T.E.I.T. secured All India Rank 14885 with GATE Score 297 in GATE 2022 (CS/IT).

Bankar Nikita, Bhalerao Sharwari, Sanjivani, **Bulbule** Divekar Samruddhi, Gaikwad Vrushali and Jadhav Namrata from S.E.I.T. have been offered a scholarship of Rs.60,000/- each, by Lila Poonawalla Foundation.

Bhosale Rutika and Chatur Rutuja from S.E.I.T. have been offered a scholarship of Rs.55,000/- each, by Lila Poonawalla Foundation.

Jadhav Shraddha and Pawar Sejal from S.E.I.T. have been offered a scholarship of Rs.50,000/- each, by Lila Poonawalla Foundation.

Mhaske Kirti and Pawar Ivoti from S.E.I.T. have been offered scholarship of Rs.45,000/- and Rs. respectively 16052/-Lila by Poonawalla Foundation.

Pacharne Trupti from S.E.I.T. has been offered Kiran's Scholarship of Rs.40,000 by Persistent Foundation Limited.



Khajure Manisha



Bankar Nikita



Bhalerao Sharwari



Bulbule Sanjivani



Divekar Samruddhi



Gaikwad Vrushali





Jadhav Namrata



Bhosale Rutika



Chatur Rutuja



Jadhav Shraddha



Pawar Sejal



Mhaske Kirti



Pawar Jyoti



Pacharne **Trupti**

Achievements

(Department of Engineering Sciences and Allied Engineering)

Staff



> Prof. Dr. Avinash M. Pawar

Patent on "CATHODE TOOL -2", was granted on 28th January, 2022 by Government of India. Application No. and CRB No.-310841-22873.



> Prof. Dr. Smita S. Jadhav

Successfully completed Ph.D. on the title "Removal of Azo Dyes using Polyaniline and Substituted Polyaniline from Aqueous Solution", under the Guidance of Dr. Dipika Jaspal, Professor, Symbiosis Institute of Technology, Symbiosis International (Deemed University), Pune, Maharashtra.

Student

In A.Y. 2021-2022, 47 students from first year department have received Non –Government Scholarship.

Sr. No.	Name of the Student	Name of the Scholarship	Scholarship Amount Received (Rs.)
1	Akkar Samiksha Santosh	Lila Poonawalla Foundation	60,000/-
2	Batwal Shraddha Ramdas	Lila Poonawalla Foundation	60,000/-
3	Firdos Mohd Haroon Maniyar	Lila Poonawalla Foundation	60,000/-
4	Joshi Mansha Pravin	Lila Poonawalla Foundation	60,000/-
5	Pawar Kirti Namdeo	Lila Poonawalla Foundation	60,000/-
6	Shinde Snehal Siddanath	Lila Poonawalla Foundation	60,000/-
7	Thorat Vaishnavi Mahendra	Lila Poonawalla Foundation	60,000/-
8	Dharasurkar Disha Balasaheb	Lila Poonawalla Foundation	59,500/-
9	Inamdar Sharvari Shrikrishna	Lila Poonawalla Foundation	59,500/-
10	Konde Shravani Somnath	Lila Poonawalla Foundation	59,500/-
11	Narkhede Yogeshwari Sudhakar	Lila Poonawalla Foundation	59,500/-
12	Yeole Gayatri Valmik	Lila Poonawalla Foundation	59,500/-
13	Chaudhari Shruti Ravindra	Lila Poonawalla Foundation	55,000/-
14	Ghore Aishwarya Dilip	Lila Poonawalla Foundation	55,000/-

15	Patil Vaishnavi Sandip	Lila Poonawalla Foundation	55,000/-
16	Pokharkar Trupti Sunil	Lila Poonawalla Foundation	55,000/-
17	Shaikh Alnaaz Murtaja	Lila Poonawalla Foundation	55,000/-
18	Wagh Ananya Anand	Lila Poonawalla Foundation	55,000/-
19	Deshmukh Gunjan Sanjay	Lila Poonawalla Foundation	53,000/-
20	Kadam Shweta Shashikant	Lila Poonawalla Foundation	53,000/-
21	Kadam Svarupa Ramdas	Lila Poonawalla Foundation	53,000/-
22	Patil Isha Vijay	Lila Poonawalla Foundation	53,000/-
23	Temgire Gayatri Maruti	Lila Poonawalla Foundation	53,000/-
24	Nangare Apurva Rajendra	Lila Poonawalla Foundation	50,000/-
25	Suryawanshi Pratiksha jitendra	Lila Poonawalla Foundation	45,000/-
26	Bhosale Sanika hanmant	Lila Poonawalla Foundation	45,000/-
27	Das Mayuri Kantilal	Lila Poonawalla Foundation	45,000/-
28	Dhembare Pratiksha Bhaskar	Lila Poonawalla Foundation	45,000/-
29	Ingale Sakshi Sadashiv	Lila Poonawalla Foundation	45,000/-
30	Jagtap Aishwarya Mashindra	Lila Poonawalla Foundation	45,000/-
31	Jamdade Neha Subhash	Lila Poonawalla Foundation	45,000/-
32	Karkande Rutuja Vinod	Lila Poonawalla Foundation	45,000/-
33	Kunnure Siddeshri	Lila Poonawalla Foundation	45,000/-
34	Mohite Anushka Sanjay	Lila Poonawalla Foundation	45,000/-
35	Mohotkar Dnyaneshwari Sunil	Lila Poonawalla Foundation	45,000/-
36	Nigade Chaitali Rajesh	Lila Poonawalla Foundation	45,000/-
37	Patil Pallavi Bhimrao	Lila Poonawalla Foundation	45,000/-
38	Salekar Laxmi Rohidas	Lila Poonawalla Foundation	45,000/-
39	Sarode Janavi Umesh	Lila Poonawalla Foundation	45,000/-
40	Shinde Priti Anandrao	Lila Poonawalla Foundation	45,000/-
41	Shitole Samruddhi Bhaskar	Lila Poonawalla Foundation	45,000/-
42	Takalkar Arpita Sanjay	Lila Poonawalla Foundation	45,000/-
43	Pudale Manasvi Dilip	Lila Poonawalla Foundation	40,000/-
44	Firke Sanika Sandip	Lila Poonawalla Foundation	30,000/-
45	Kakade Vedanti Khushalrao	Lila Poonawalla Foundation	30,000/-
46	Patil Prayuja Shahaji	Lila Poonawalla Foundation	30,000/-
47	Jagtap Aishwarya Mashindra	Persistent's Kiran Girls Scholarship	40,000/-

Placements from January 2022 to May 2022

SR. NO.	NAME	COMPANY
1.	Vora Yutika	Alight
2.	Dahiphalkar Apurva	Capgemini
3.	Dhasade Priyanka	Capgemini
4.	Kaladeep Prachi	Capgemini
5.	Ogale Chaitrali	Capgemini
6.	Sawant Rohoni	Capgemini
7.	Bavkar Bhagyashri	Cognizant
8.	Deshmukh Sanyukta	Cognizant
9.	Patil Trushna	Cognizant
10.	Phatale Vrushali	Cognizant
11.	Joshi Sanchita	e-Zest
12.	Dhebe Deepali	Icon
13.	Garge Harshita	Infosys
14.	Dahiphalkar Apurva	L&T Services
15.	Dhamale Sanskruti	L&T Services

SR. NO.	NAME	COMPANY
16.	More Aishwarya	L&T Services
17.	Pandhare Neha	L&T Services
18.	Kolhe Divyangi	Msys Technologies
19.	Koyale Shradha	Msys Technologies
20.	Nikam Utkarsha	Msys Technologies
21.	Dhebe Deepali	Vodafone Vois
22.	Dhokte Priti	Vodafone Vois
23.	Garge Harshita	Vodafone Vois
24.	More Tulasi	Vodafone Vois
25.	Ogale Chaitrali	Vodafone Vois
26.	Hinge Netra	Wipro
27.	Joshi Sanchita	Wipro
28.	Pawar Kajol	Wipro
29.	Shipankar Swapnali	Wipro
30.	Shitole Sanuja	Zensar

Our Esteemed Recruiters

















































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