



**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

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

Pune-Satara Road, Dhankawadi, Pune 411043

Phone: (020)24371684, (020)24361732

Fax: (020) 24372210, Email: coepune@bharativedyapeeth.edu

Website: <http://coepune.bharativedyapeeth.edu>

Undergraduate Programme

Sr. No.	Course	Intake	Course Code
1	B.E. Electronics and Telecommunication Engg. (E & TC)	120	628537210F
2	B.E. Computer Engg. (CE)	60	628524510F
3	B.E. Information Technology (IT)	60	628524610F

Post Graduate Programme

Sr. No.	Course	Intake	Course Code
1	M.E. (E & TC-VLSI & Embedded System)	18	628534110F

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

This year will be remembered by all the human beings around the globe due to the 'COVID-19' pandemic situation. We all have adapted to the new life style and I am very proud to mention that despite of 'COVID-19' situation, we could complete all our academic assignments in online mode of education at its fullest. Rather, we have conducted more number of activities such as Faculty Development Programs (FDP), Webinars, Training Programs etc.

'Newsletter' is a platform for presenting the summary of various departmental activities conducted during the semester. It is really a proud moment for all of us to present the 3rd volume of 'Newsletter' to all our stakeholders.

I appreciate the efforts taken by Prof. Dr. Deepali Godse, coordinator of 'Newsletter'. I also appreciate the support by all HOD, editorial board members (faculty and students) for carrying out all the activities very well and I wish all the best for future editions. I conclude with the quote by Swami Vivekananda "Be the servant while leading. Be unselfish. Have infinite patience, and success is yours".

From the Desk of Coordinator...



Prof. Dr. D. A. Godse
Newsletter Coordinator

In the academic year 2018-19, Semester 2, we had released the first issue of e-newsletter in the memory of Hon'ble Dr. Patangraoji Kadam Saheb. At that time, we had decided to release e-newsletter to make it a paperless activity with ease of sharing with all stakeholders. Thought of that time has become today's need. I am very glad to share with you all that in this COVID-19 pandemic lock down situation too, our institute organized and successfully conducted a number of online activities. As a coordinator, I am delighted to proudly present the Volume 3, Issue 1, AY 2020-21 of e-newsletter "Blessings..."

We believe that our institute has always been blessed by the founder of Bharati Vidyapeeth, Hon'ble Dr. Patangraoji Kadam Saheb and will be blessed forever. It's our great pleasure to share glimpses of various technical activities organized in the institute with our stakeholders. Our alumnae also contribute by sharing an article on recent trend in order to give a detailed insight into the modern era of technology and its advancements. Our basic aim of publishing a newsletter and sharing it with our stakeholders is to improve connectivity between us.

I am very much thankful to the editorial board for their efforts and solidarity in bringing out successfully the semester wise e-newsletter on time. Always remember the quote of Dr. A. P. J. Abdul Kalam, "Man needs difficulties in life because they are necessary to enjoy the success."

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.*

HOD's Message



Prof. Dr.S.R.Patil

Head of Electronics and Telecommunication Engineering Department

It is with immense pleasure and pride that I am writing the message for this Newsletter. My wishes to the team of faculty and students who took great efforts and solidarity on this newsletter.

Electronics and Telecommunication Engineering Department was established in the year 2000 with the intake of 60 students. With the increase in intake of 60 in 2006-07 for UG and a new PG course of intake 18 in 2013-14, our department is foremost and continuously getting upgraded. Department has highly qualified faculty. The well planned infrastructure to satisfy the requirements of educational environment in this pandemic situation of COVID 19 were also enforced in the department along with latest hardware available such as VNA, Satellite Trainer kit, RFGD-3G, OTDR, Spectrum Analyzer, Virtex-5 Kits etc. and software tools like MATLAB, Xilinx, LABVIEW etc.

The newsletter team indeed deserves my appreciation for their contemporary idea of electronic newsletter which is indeed eco-friendly concept and will also benefit the stakeholders of this Institute. I congratulate the editorial board members for their efforts to present the volume 3 issue 1 e newsletter. With this brief review, I welcome you all to be the part of our impeccable newsletter.

Faculty Development Program on “Python Programming”



Department of Information Technology in association with 9Ledge Pro, Microsoft AEP, Pune organized a Faculty Development Program (FDP) on “Python Programming” from 4th May, 2020 to 9th May, 2020 through online mode using Microsoft Teams platform.

Mr. Parth Shukla, Co- founder and Corporate Trainer, 9Ledge Pro (Microsoft Authorized Education Partner), Pune was the resource person for this FDP. The FDP commenced with Principal Prof. Dr. S. R. Patil welcoming all the participants and presenting a brief introduction about Bharati Vidyapeeth and Bharati Vidyapeeth’s College of Engineering for Women. Prof. Dr. D. A. Godse, Convener and Head of Information Technology department introduced the speaker Mr. Parth Shukla and addressed the audience.



The contents covered in the FDP were basic features, advantages of using python programming, concepts in python like variables, operators, data types, flow control, conditional statements, loops, functions, classes etc. The concepts of advanced python programming were also explained. All sessions were very interactive and the participants got satisfactory answers for their queries. All the participants appeared for an online examination and received certificates. The FDP concluded with the vote of thanks presented by the coordinator Prof. A. V. Kanade. Total 176 staff members from colleges of various universities within Maharashtra participated in this FDP.

Institute Level Activities

Sr. No.	Date	Activity	Staff Coordinator(s)	Organizing Department/Cell
1.	29/04/2020 to 27/05/2020	“COVID-19 Pandemic” General Quiz 2020	Prof. Dr. A. M. Pawar Prof. S. S. Thite	Bharati Vidyapeeth's College of Engineering for Women, Pune
2.	11/05/2020 to 15/05/2020	Online Workshop on “Latex”	Prof. D. D. Pukale Prof. K. S. Warke Prof. K. D. Yesugade	Department of Computer Engineering in association with Spoken-Tutorial, IIT Bombay.
3.	13/05/2020 to 18/06/2020	“WhatsAppKa Boss” Quiz Competition 2020	Prof. S. S. Thite	Department of Information Technology
4.	18/05/2020 to 23/05/2020	Faculty Development Program on “DRUPAL”	Prof. Dr. V. R. Pawar Prof. K.D. Mahajan Prof. V. V. Gaikwad	Department of Electronics &Telecommunication in association with IIT Bombay Spoken- Tutorial
5.	18/05/2020 to 23/05/2020	NBA Quiz Series	Prof. S. T. Khot Prof. Dr. S. S. Chorage Prof. A. B. Vitkar	Internal Quality Assurance Cell
6.	30/05/2020	Webinar on “Intellectual Property Rights”	Prof. K. R. Chaudhari Prof. K.B. Naik	Department of Electronics &Telecommunication Engineering
7.	09/06/2020	Faculty Development Program on “Workflow Automation through Microsoft Teams”	Prof. K.B. Naik	Department of Information Technology
8.	20/06/2020 onwards	Online Practice Test Series of MHCET for 12 th pass students	Prof. Dr. A. M. Pawar Prof. S. R. Mitkari	Department of Engineering Sciences and Allied Engineering
9.	21/09/2020	Webinar on “Concurrent Programming: Old problems, New challenges”	Prof. Dr. D. A. Godse Prof. A.V. Kanade	Department of Information Technology
10.	8/12/2020 to 18/12/2020	Faculty Development Program on “Effective Proposal Writing for Research Proposal and Funding”	Prof. Dr. V. R. Pawar Prof. K. D. Mahajan Prof. V. V. Gaikwad	Department of Electronics &Telecommunication Engineering

Webinar on Artificial Intelligence and Machine Learning

Bharati Vidyapeeth's
COLLEGE OF ENGINEERING FOR WOMEN, PUNE
Dhankawadi, Pune-Satara Road, Pune - 411043
Affiliated to Savitribai Phule Pune University (Formerly University of Pune)
& Approved by AICTE, New Delhi, DTE, Maharashtra

LOGIXCODE
Where Logic Speaks Bold

Webinar on Artificial Intelligence & Machine Learning

Resource Person
Prof. Ravi R. Randale
Proprietor, Logixcode

Resource Person
Mr. Ritesh Maury
Corporate Trainer

Organized by
Department of Electronics and Telecommunication
Bharati Vidyapeeth's Pune

Contact Person
Prof. Ravi Randale
(9594934210)

*July 29, 2020
11:00 am to 1:00*

Considering this Pandemic situation, a webinar was conducted on the current topic of “Artificial Intelligence and Machine Learning” in association with LogixCODE Education by Electronics and Telecommunication Engineering Department on 29th July 2020 for all the T.E. and B.E. students. The speakers for this session were Prof. Ravi Randale (Proprietor, LogixCODE) and Mr. Ritesh Maury (Corporate Trainer). Principal and Head of E&TC Engg. dept., Prof. Dr. S. R. Patil inaugurated the webinar. He interacted with the students and appealed them to be prompt enough so that they would perceive the recent technologies in the market and update themselves accordingly.

The speaker, Mr. Ritesh Maury in his session started with the definition of Artificial Intelligence and Machine Learning and its history. He further covered different aspects of this topic and also encouraged the students to study this topic in great depth. The speaker said that this field was founded on the assumption that human intelligence can be so precisely described that a machine can be made to simulate it. The speaker gave focus on its advantages in the recent technologies. Students were really satisfied by this session and felt encouraged to study this topic furthermore.

This webinar was conducted successfully by the Electronics and Telecommunication Student Association coordinated by Prof. V. S. Karambelkar.

Technical Activities



TE : Webinar on “Benefits and career Opportunities with GATE” by Mr.Akash Pushkar (The GATE Academy, Pune) on 11th July 2020 .



SE,TE,BE Webinar on “Power up resume with IBM skillbuild certificates” by Mr.Harshad (WordsMaya, Pune) on 5th October2020 .

Sr. No.	Date	Activity	Resource Person	Industry/ Company	Class
1	24/6/2020	Rising Opportunities In Machine Learning and Artificial Intelligence: Jobs and Research Projects	Dr.Sushama D. Shelke	ARIN International, Pune	TE
2	6/7/2020	Training demo on Aptitude and Technical	Mr.Neeraj Ade	Profound Edutech, Pune	BE
3	8/7/2020 to 11/7/2020	Training demo on Softskill, Aptitude and Technical	Mr.A.S.Devraj, Mr.Rohit Ghosh , Ms.Rohini Jain	Ethenus, Skilledge , Carpe Diem ,Pune	BE
4	29/07/2020	Artificial Intelligence & Machine Learning	Mr.Ravi Randale, Mr.Ritesh Maury	LogixCODE	TE & BE
5	6/8/2020	Webinar on python programming	Mr. Deepak Garg	ATS Learning Solution	SE
6	7/8/2020	Webinar on Interview Preparation	Mr.Chintan Sharma, Mr.Rajat Jain	Code Asylums	TE
7	2/9/2020	MBA as Career Option	Mr.Anuj Khanna	T.I.M.E, Pune	TE

TWISTRONICS

The ability in experiments to control the relative twist angle between successive layers in two-dimensional (2D) materials offers a new approach to manipulating their electronic properties; we refer to this approach as “twistronics”. Materials such as bilayer graphene have been shown to have vastly different electronic behaviour, ranging from non-conductive to superconductive, that depends sensitively on the angle between the layers. The fascinating research on 2D materials experienced three sequential stages in its development, each represented by a new degree of freedom in the sense of material structure. Stage 1 is represented by a real 2D system, e.g., freestanding graphene, which allows the discovery of various properties superior to the 3D or quasi-2D systems; stage 2 is represented by tailor-made 2D heterojunctions, which give rise to a variety of van der Waals stacking systems and stage 3 is represented by a twist angle between the neighbouring layers, which facilitates the fine tuning of electronics structures and magically induces strong correlation phenomenon at “magic” twist angles, e.g., twistronics.

It is already known that graphene can conduct electricity at ultra-high speed, but researchers took a giant leap by turning graphene into a superconductor—a material that allows electricity to flow without resistance. This was achieved by placing one sheet of graphene over another and rotating the other sheet to a special orientation, or magic angle, and cooling the ensemble to a temperature of 1.7K. The twist radically changed the bilayer’s properties—turning it first into an insulator and then, with application of a stronger electric field, into a superconductor.

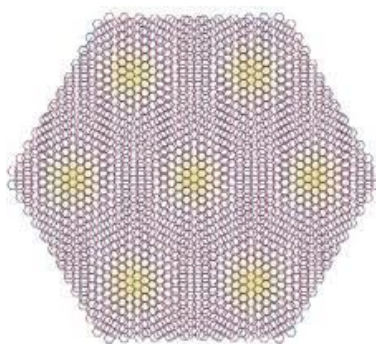


Fig 1. Twistronics tunes 2D material properties

The proof-of-principle shows that we can achieve and control rotation in graphene/boron nitride hetero-structures, and can dynamically vary the electrical, optical and even mechanical properties of a device made from these structures. As for applications, the work could help in the development of new kinds of switching technologies, such as tunable sensors and tunable electro-mechanical and electro-optical based devices.



Ms. Siddhi Sawant
(2020 Batch Alumna)
Application Operations Engineer
Vodafone Intelligent Services(VOIS)

Achievements



Prof. Dr. S. R. Patil

BharatiVidyapeeth's College of Engineering for women Pune was recognized "Examination Centre "for Conducting National Level Intercollegiate G.K. Test.



Prof. Dr. S. S. Chorage

Best paper award for the paper presented by Ph. D. student at the 2nd IEEE International Conference on Emerging Smart Computing and Informatics ESCI 2020.

NPTEL online Certification course on subject Introduction to Microwave theory and Technique passed with Elite certification.



Prof. Dr. V .R. Pawar

NPTEL online Certification course on subject Introduction to Machine Learning passed with Elite certification.



Prof. S. M. Bhilegaonkar

Online Course on LaTeX101x: Latex for Students, Engineers, and Scientists and Scored 100% and achieved score A+.



Prof. S. S. Jadhav

(Department of Engineering Science and Allied Engineering)

Patents Published :

1. A method and composition for purification of textile wastewater.(Application No. 202021025427).
2. A method and composition for purification of textile wastewater by acid doped polyaniline (PANI). (Application No. 202021025428).

Our Esteemed Recruiters



Placement from May 2020 to December 2020

Sr. No.	Name of the Student	Company
1	Honrao Ankita Dayanand	TCS
2	Dongare Diksha Ramesh Rao	TCS ion
3	Iskande Shraddha Sharad	Amazon
4	More Kalyani Sanjay	BYJU
5	More Shubhangi Angad Rao	Amazon
6	Sharma Shivani	Ashtrix
7	Parate Simran Hemant	Capgemini
8	Kumari Anita	Capgemini
9	Das Surbhi	Capgemini
10	Patil Shruti Yashwant	Capgemini
11	Borole Dhanashree Narendra	Ubisoft
12	Mandake Ankita Dhananjay	Ubisoft
13	Nigade Gargi Rajendra	Ubisoft
14	Patil Deepika Chandrakant	Ubisoft
15	Patil Shruti Yashwant	Jaro Education

Editorial Board



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



Prof. Dr. D. A. Godse
Newsletter Coordinator



Prof. V. S. Karambelkar
Chief Editor (E&TC)



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



Prof. N. N. Chavan
F.E. Staff



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



Shruti Patil
(B.E. E&TC.)



Madhura Mirikar
(T.E. E&TC.)



Tanushree Desale
(S.E. E&TC.)



Priyanka Bera
(B.E. E&TC.)



Bhavya Sharma
(T.E. E&TC.)



Niharika Nikose
(S.E.E&TC.)