



Hon'ble Dr. Patangraoji 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: coewpune@bharativedyapeeth.edu
Website: <http://coewpune.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. The oldest engineering college "exclusively for women".
2. All government scholarships are applicable for eligible students.
3. Placement opportunities in multinational companies with 100% assistance.
4. Excellent university results and university rank holders.
5. MOUs with reputed industries and academia.
6. On campus hostel facility with 24 x 7 security.
7. DTE approved facilitation center for admissions.

FaceBook :

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



Principal's Message



Prof. Dr. S. R. Patil
In-charge Principal

Engineering institutes are effective instruments of technical progress of our country and also contribute to human progress and the transformation of society. It is really a proud moment for all of us to present the 2nd volume of 'Newsletter' of our institute. It gives me immense pleasure to write the message for it.

'Newsletter' is a platform for presenting the summary of various departmental activities conducted during the semester.

I appreciate the efforts taken by Prof. Dr. Deepali Godse, coordinator of 'Newsletter'. I also appreciate the support by 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 would like to conclude with a quote of Swami Vivekananda...
" Arise ! Awake ! And stop not until the goal is reached " .*

From the Desk of Coordinator...



Prof. Dr. D. A. Godse
Newsletter Coordinator

As a coordinator, I am delighted to present the first issue, AY 2019-20 of 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.

This semester-wise newsletter is mainly a reflection of technical activities organized at institute level and department level as well. It is the right of every stakeholder to know about the activities organized in the institute. Also, it is our responsibility to be in touch with them. It will perform the role of dissemination the information of our institute and the department to most of our stakeholders. In order to give a detailed insight into the modern era of technology and its advancements, an article on recent trend has also been included in the newsletter. Any sufficiently advanced technology is indistinguishable from magic. I am sure; the newsletter will improve connectivity between the institute and the stakeholders. Technology is best when it brings people together.

I am very much thankful to the editorial board for their efforts and solidarity in bringing out successfully the regular e-newsletter. I would like to motivate students and staff with a quote of Steve Jobs ...

"The only way to do great work is to love what you do."

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, continuously getting upgraded. Department has highly qualified faculty. Well planned infrastructure to satisfy growing needs of educational environment, supported with latest hardware such as VNA, Satellite Trainer kit, RFGD-3G, OTDR, Spectrum Analyzer, Virtex-5 Kits etc. and software tools like MATLAB, Xilinx, LABVIEW, MENTOR GRAPHICS etc.

The Newsletter team indeed deserves my appreciation for their innovative idea of electronic newsletter which will benefit the stakeholders of this institute.

With this brief introduction, I welcome you all to be the part of our impeccable Newsletter journey.

Bharati Vidyapeeth's College of Engineering for Women, Pune

JOY OF COMPUTING

As per the guidelines given by All India Council for Technical Education (AICTE), Savitribai Phule Pune University (SPPU) has introduced a two-week induction programme for the first year students. In accordance to the given credos, FE department organized this remarkable meet-up, under the guidance of Prof. Dr. A. M. Pawar, Head of FE Department. This programme was successfully executed and met its purpose of making students realize how interesting this field can



Several non-technical activities and a technical event were organized during the programme to help students develop their overall personality. Being an ardent partaker, first year students experienced a wide exposure towards the prodigious world of computers. Prof. Pranoti Kale (TPO) along with Prof. Mughda Rane (T&P coordinator- IT department) startled students by bestowing some. be. wonderful practical applications of computer basics. Since coding has grown

tremendously in past several years, gaining much needed importance, the prime motive of the induction programme was to manifest the practical uses of coding in animation, development of apps, online transactions and bookings etc. Students were also directed about robustness of code performance and instance of actual coding.

Staff Achievement



1. Prof. Dr. A. M. Pawar has filed three Patents
 - a. CATHODE TOOL Application No. & CRB No.-310839-22779
 - b. CATHODE TOOL-1 Application No. & CRB No.-310840-22782
 - c. CATHODE TOOL-2 Application No. & CRB No.-310841-22783

2. He has been appointed as an official Editorial Board Member of:
 - a. International Journal of Management Technology and Engineering (IJMTE)
 - b. International Journal of Recent and Innovation Trends in Computing and Communication (IJRITCC).

Major Technical Activity



Electronics and Telecommunication Engineering department organized a seminar on topic “Electrical Circuits and Machines” which was conducted by Mr. Veejhay Limaaye in association with ECOSYMS Solutions Pvt. Ltd., Pune and V L Engineers Electrical consultancy, Miraj. At the time of Inauguration, Prof. Dr. S. R. Patil interacted with the students and guided students with the concept of multi disciplinary approach and importance of Electrical subject included in E&TC branch.

The activity was conducted under the Memorandum of Understanding (MoU) between ECOSYMS Solutions Pvt. Ltd. and E&TC Department. The seminar was conducted on 9th Sept. 2019 for S. E. students.

Mr. Veejhay Limaaye explained the basic concepts of AC, DC generation, power generation, and transmission and distribution system. He also covered different types of motor constructions and their working. The aim of the seminar was to inculcate the basic knowledge of subject Electrical Circuits and Machines in students. He also emphasized on the use of these electrical circuits in the current industry.

The seminar was quite enthusiastic and students gained deep knowledge on this topic. The seminar was conducted successfully in the valuable presence of Principal Prof. Dr. S. R. Patil, ISF co-ordinator, Prof. Dr. S. L. Kore and ECM subject In charge Prof. S. M. Patil.

Technical Activities



Expert Lecture on “Electromagnetics” by Mrs. Triveni Dhamale (PCCOER) on 30/09/2019



SE : Seminar on “Machine Learning” by Mr. Avadhut Sardeshmukh (Tata Research Development & Design Centre) on 16/07/2019



SE, TE : Seminar on “Engineering is Awesome” (The Conquerors) by Mr. Raghvan Koli on 27/07/2019



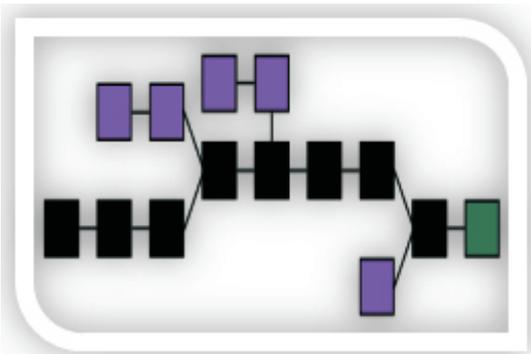
TE : Seminar on “Higher Education Opportunities” by Dr. Shriram Joshi (TIME) on 11/07/2019



TE : Seminar on “Introduction to Salesforce” by Ms. Payal Mittal (Aethereus) on 03/08/2019

BLOCKCHAIN

A blockchain, originally block chain, is a growing list of records, called blocks that are linked using cryptography. A block in a blockchain is a collection of data. The data is added to the block in blockchain, by connecting it with other blocks in chronological order creating a chain of blocks linked together. The first block in the Blockchain is called Genesis Block. Blockchain is a



Blockchain formation. The main chain (black) consists of the longest series of blocks from the genesis block (green) to the current block. Orphan blocks (purple) exist outside of the main chain.

distributed ledger (collection of accounting entries consisting of credit and debit), which simply means that a ledger is spread across the network among all peers in the network, and each peer holds a copy of the complete ledger.

How Does It Work?

Blockchain formation. The main chain (black) consists of the longest series of blocks from the genesis block (green) to the current block. Orphan blocks (purple) exist outside of the main chain. A node starts a transaction by first creating and then digitally signing it with its private key (created via cryptography). A transaction can represent various actions in a blockchain.

Most commonly this is a data structure that represents transfer of value between users on the blockchain network. Transaction data structure usually consists of some logic of transfer of value, relevant rules, source and destination addresses, and other validation information.

1. A transaction is propagated (flooded) by using a flooding protocol, called Gossip protocol, to peers that validate the transaction based on preset criteria. Usually, more than one node is required to verify the transaction.
2. Once the transaction is validated, it is included in a block, which is then propagated onto the network. At this point, the transaction is considered confirmed.
3. The newly-created block now becomes part of the ledger, and the next block links itself cryptographically back to this block. This link is a hash pointer. At this stage, the transaction gets its second confirmation and the block gets its first confirmation.
4. Transactions are then reconfirmed every time a new block is created. Usually, six confirmations in a network are required to consider the transaction final. Transactions are then reconfirmed every time a new block is created. Usually, six confirmations in the Bitcoin network are required to consider the transaction final.

Prof. K.D.Mahajan

Our Esteemed Recruiters



Placement during A.Y.2019-2020 (Sem I)

Sr. No.	Name	Company
1	Ms. Rahade Neha Babasaheb	Emplova
2	Ms.Raichurkar Sonam Satish	Cognizant
3	Ms.Kshitija Khandale	Prolifics
4	Ms.Madhura Kadao	Prolifics
5	Ms.Prajakta Navale	Prolifics
6	Ms.Arya Chavan	Prolifics
7	Ms.Arya Chavan	TCS
8	Ms.Raksha Shetty	Vodafone
9	Ms.Ashlesha Kakade	Vodafone
10	Ms.Mansi Rawat	Vodafone
11	Ms.Nisha Pal	Vodafone
12	Ms.Richa Priya	Vodafone
13	Ms.Siddhi Sawant	Vodafone
14	Ms.Dnyaneshwari Dixit	Capgemini
15	Ms.Prajakta Shewate	Capgemini

Achievements

Sr. No.	Name	Achievement
1	Prof.Dr.V.R.Pawar	Recognition as Ph.D. Research Guide in Savitribai Phule Pune University
2	Ms.Komal Pawar Baloso	Ranked 9th in Savitribai Phule Pune University(SPPU) in BE (2012) Pattern (all branches) in May 2018 Examination

Editorial Board



Top Row L-R Students : Ms. Madhura Mirikar , Ms. Bhavya Sharma , Ms. Shruti Patil , Ms. Nisha Pal , Ms. Priyanka Beura , Ms. Siddhi Sawant.

L-R Staff : Mrs. N.N. Chavan , Ms. V.S. Karambelkar , Prof. Dr. S. R. Patil (I/C Principal and Head of E&TC Engg. Dept.), Prof. Dr. D. A. Godse (Newsletter Coordinator), Ms. K.D. Mahajan , Mrs. D.P. Chopade