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: 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	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 × 7 security.
7. DTE approved facilitation centre 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 contribute to human progress and the transformation of society. It is really a proud moment for all of us to present the second 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 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 Volume 2, Issue 2, 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 disseminating 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".

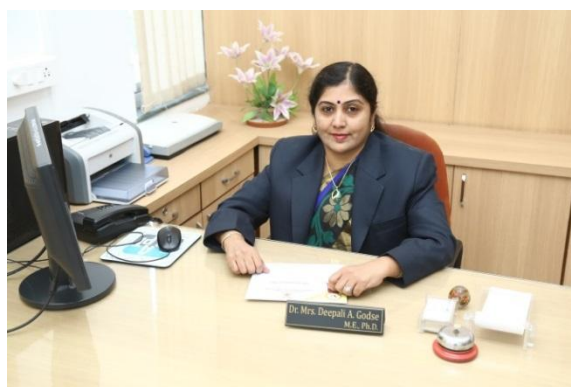# Department of Information Technology

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 extra-curricular activities.

HOD's Message

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

Department of Information Technology (IT) was established in the year 2000-2001 with an intake of 60 students. The department has well equipped laboratories with the state of art software, hardware and qualified, experienced, dedicated team of staff members. With the rapid development of hardware components, communication systems and software, there is a demand for IT engineers. It provides an opportunity to work in the continuously changing technology sector. Many technical symposiums, industrial visits, seminars, workshops and curricular, co-curricular, extra-curricular activities are organized by the department to make the students self-sustaining in the competitive world. We are pleased to share some of the major news of the institute and Department of IT during each semester. I congratulate the entire editorial team for their enthusiasm and great cooperation in the complete process of publication of the e-newsletter. I would like to encourage students and staff with a quote of Napoleon Hill ..."If you cannot do great things, do small things in a great way."

Seminar on "Energy Audit and Conservation"

A two hour seminar on "Energy Audit and Conservation" was conducted for the students of First Year on 27th February, 2020 by Dr. Mandar Bhavalkar (Ph.D. in Electrical Engineering Power Systems), Assistant Professor, Electrical Engineering, PVG's COET, Pune. In the inaugural speech, Prof. Dr. S. R. Patil explained the importance of the various conventional and non-conventional energy sources, and simple ways to save and conserve electrical energy.

The students and staff members found this seminar to be very challenging and interesting too, as all became aware of the energy resources we are bestowed with and realized that it is our responsibility to conserve it.

The objective of the seminar was to determine what further energy saving techniques can be used, on most practical lines. Also its thrust has been towards hidden losses and technical up-gradation. Dr. Mandar Bhavalkar also provided elaborate technical details as well as cost-benefit calculations for each proposal of energy saving.

Employability Skill Development Training Program

Under the able guidance of Prof. Dr. S. R. Patil, the institute has signed MoU with Zensar Technologies on 12th August, 2019 and the Employability Skill Development Program is made available to E&TC students from this academic year. The Employability Skill Development Training Program and subsequent job offers from Zensar Technologies are the highlights of this MoU.

This activity was conducted for the Third Year students. 24 students from Computer Department, 21 students from IT Department and 36 students from Electronics and Telecommunication Department were shortlisted for this training program through an Online Aptitude Examination conducted by Zensar Technologies.

These students were trained by Zensar Technologies in Soft skills, Life skills and Quantitative Aptitude. The technical training modules included Core Java, Oracle, Python programming, Artificial Intelligence and Machine Learning. The performance of students was evaluated after completion of each module through practical / online assessment. The students shortlisted through this assessment will be considered for placement in Zensar Technologies after cracking the aptitude test and interview rounds which will be conducted in July 2020.

Major Technical Activity

A Workshop on "Ethical Hacking and Cyber Security" by the resource persons Mr.Parth Jamodkar, Mr. Priyanshu Parmar and Mr. Gorakha Bhosale from Zplus Cyber Secure Technologies Pvt. Ltd was organized by Student Development Section, SPPU and Department of Information Technology. Our institute has received a grant of Rs.15000/- by SPPU to organize this workshop. This workshop was held on 25th February 2020.

Mr. Parth Jamodkar and Mr Priyanshu Parmar started first session with a brief introduction and overview on Ethical Hacking and Cyber Security. In the next session, the speaker discussed about the topics: Foot printing and reconnaissance, enumeration, vulnerability assessment, system hacking, malware threats, sniffing and spoofing. The session was further continued with topics: social engineering, denial of services, hijacking, evading IDS, firewall, hacking web applications. The

trainers were very interactive and enthusiastically addressed every query raised by students. Also the sessions were very informative and hands on sessions made this workshop very interesting.

Industry-Institute Interaction

Sr. No.	Date	Activity	Industry/ Company	Class
1	11/01/2020	Training on Life Skills	Zensar Technologies	TE IT
2	16/01/2020	Seminar on Soft Skill Orientation	O2 Breathing Brains	TE IT
3	29/01/2020	Seminar on Career Opportunity & aptitude training	Ethnus	TE IT
4	09/02/2020 to 13/02/2020	Training on Python Programming	Zensar Technologies	TE IT
5	15/02/2020 to 16/02/2020	Training on AI/ML	Zensar Technologies	TE IT

Technical Activities

Seminar on "Improving Communication Skills" by Ms. Vijayshri Marathe, Alumna

Guidance on "Groundwork for Success at NES Innovation Award 2020" by Ms. Vaibhavi Zende, Ms. Hrutuja Gaddam, Alumnae

Seminar on " Hadoop Technology" by Ms. Pratiksha Gollar, Ms. Bhagyashri Raut, Alumnae

Seminar on "Assembler" by Dr. Abhijat Vichare, Consultant

Seminar on "Digital Marketing" by Mr. Shahaji Garande, Sr. Digital Marketing Executive, Eurosteel Office Furniture Systems Pvt. Ltd., Pune

Three Days "Aptitude" Training by Mr. Jay Crana under Zensar ESD MoU

Web API for Database Security

API, Application Programming Interface resembles the online web services that are used by the apps at the client side to retrieve and update information. An API would hold on to a central logic of an application irrespective of number of client apps utilizing it. ASP.NET Web API is a framework for building HTTP services that can be accessed from any client including browsers, mobile applications and desktop applications. It is an ideal platform for building RESTful applications on the .NET Framework. In order to better understand this, let us consider an example, where there are number of mobile apps supported by different platforms and a web app. If there is no centralized web API, then each client app will have its own embedded business logic which would enable it to connect directly to the database in order to retrieve, update and manipulate the data. Hence, implementing any change to the client apps will be a complex process as each of the app would be required to maintain in sync with each other. Moreover, in case of any update, it would be required to make changes to each and every app individually. Hence, this requires more efforts, takes more time and costs and can also result in lot of bugs or errors in the application.
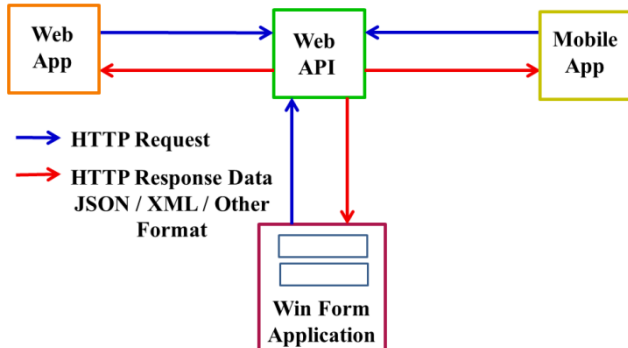

Fig: Web API Services for various Platforms

Web API makes it easier for the developers to build an ASP.NET application that is compatible with any browser and almost any device. With Web API, you get access to entire features of HTTP like URIs, request/response headers, content formatting, caching etc., and hence, as compared to Windows Communication Foundation (WCF) rest services (which require defining extra configuration settings for different devices), it is much easier to develop ASP.NET web applications using RESTful web services through Web APIs. If you are looking for a back end to develop native applications for mobile devices that do not support SOAP, ASP.NET Web API can serve your purpose. Almost any native application running on mobile device other than the Windows one can use ASP.NET Web API as backend. Hence, a web API is good for using with native applications which require web services but not SOAP support.

The Web API supports a light architecture powering HTTP services to reach broader range of clients. As compared to WCF, it is much easier and quicker to create services using ASP.NET Web API. Hence, Web APIs can be helpful in various significant ways especially when it is an ASP.NET web application as it secures the direct database connectivity with the web application. ASP .NET can work with databases such as Oracle and Microsoft SQL Server. It can establish a connection with the database by including the database name, credentials in the connection string of the application, and reads the database using SQLDataReader. By using Web API as an interface to the database, we can avoid using SQL connection directly in the web application, as the Web API supports all the convention based CRUD actions, since it works with HTTP protocols GET, POST, PUT and DELETE. It provides security via Transport Layer Security (TLS) encryption. TLS is a standard that keeps an internet connection private and checks that the data sent between two systems (server - server or server - client) is encrypted and unmodified. Hence, Web API would be a good choice for a back end to develop native applications which require web services.

Contributed by –

Ms. Snigdha Srivastava
Systems Engineer,
Tata Consultancy Services,
Pune.

(Alumna, Batch 2015-16)

Our Esteemed Recruiters

Staff Achievements

Prof. K. B. Naik has successfully completed Amazon Web Services (AWS) certification and qualified as an AWS Certified Cloud Practitioner.

Prof. S. S. Thite has copyrights for
1. Research titled "Design and Development of Security algorithm for Cyber Physical System to prevent Cyber Attacks" (Copyright Registration No. L-88880/2020)
2. Software named "Software for Secure Algorithm for Cyber Physical Systems" (Copyright Registration No. SW-13269/2020)

Prof. K. B. Naik

Prof. S. S. Thite

Student Achievements

Ms. Priya Ghosh of B.E. I.T. secured 9th Rank in Savitribai Phule Pune University Third Year (Information Technology) Examination conducted in May 2019.

Ms. Vaishnavi Bhutada of B.E. I.T. secured All India Rank 2400 with GATE Score 570 in GATE 2020 (CS).

Ms. Priya Ghosh

Ms. Vaishnavi Bhutada

Placement during AY 2019-20

SR. NO.	NAME	COMPANY
1	APURVA CHINNI	AMAZON
2	PRANALI DEVADE	ATOS SYNTEL
3	PRIYA GHOSH	ATOS SYNTEL
4	SAKSHI SINGH	ATOS SYNTEL
5	CHHAVI KUMARI	BITWISE
6	PRATIKSHA KHOPADE	BITWISE
7	BARKHA LADDHA	CAPGEMINI
8	MOKSHADA DESHMUKH	GLOBAL STEP
9	DIPTI PACHPANDE	INFOSYS
10	PALLAVI GUPTA	INFOSYS
11	PRANALI DEVADE	INFOSYS
12	SNEHAL DESHMUKH	INFOSYS
13	POOJA JOSHI	INFRASOFT TECHNOLOGIES
14	AKSHITA CHAUHAN	L&T INFOTECH
15	APRAJITHA SETH	L&T INFOTECH
16	MUSKAAN PANSARE	L&T INFOTECH
17	SWAPNALI PATKI	L&T INFOTECH
18	VAISHNAVI CHIMATE	L&T INFOTECH
19	ANSHIKA SINHA	PERSISTENT
20	OJASWI BORATE	PERSISTENT
21	POOJA VEER	PERSISTENT
22	RITIKA TIWARI	PERSISTENT
23	RUCHIKA ROHILLA	PERSISTENT
24	SAMPADA NANDANWAR	PERSISTENT
25	SHWETA RAJORIA	PERSISTENT
26	PREETI BHAT	PROLIFICS
27	AKSHITA CHAUHAN	TCS
28	RITIKA TIWARY	TCS
29	SHWETA RAJORIA	TCS
30	ANUBHA ROY	VODAFONE
31	NAYAN WANDILE	VODAFONE
32	PRATIKSHA PATIL	VODAFONE
33	PRIYANKA BHATIA	VODAFONE
34	SAKSHI PANDEY	VODAFONE
35	SAYALI GADHAVE	VODAFONE
36	SRISHTY SINHA	VODAFONE
37	VAISHNAVI BHUTADA	VODAFONE
38	APURVA PATIL	ZENSAR
39	PRIYA GHOSH	ZENSAR
40	SAKSHI SINGH	ZENSAR
41	SNEHAL NIBE	ZENSAR

"*Best Women College of the year 2019*"

Bharati Vidyapeeth's College of Engineering for Women received "*Best Women College of the year 2019*" award under the category Engineering and Technical Education from National Educational Excellence Conference and Awards (NEEC&A) – 2019.

Editorial Board

Top Row L-R Students: Prerana Zamre, Maria Raashid, Priyanka Bhatia, Priya Ghosh, Vrushali Phatale, Sumat Goud

L - R Staff: Mrs. N. N. Chavan, Ms. N. A. Mulla, Prof. Dr. S. R. Patil (I/C Principal), Prof. Dr. D. A. Godse (Newsletter Coordinator), Mrs. S. B. Dhuttargi, Mrs. D. P. Chopade