



INTERFACE AGE



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V. E. S. POLYTECHNIC Computer Engineering Department Newsletter: January 2021

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Message from HOD

The Department was established in the year 2010 and since its inception the Department has evolved to pioneering the state of Diploma Computer engineering education in Maharashtra. Department is committed with Vision "To be Centre of excellence in the field of computer Engineering by providing value-based quality technical education" The Department faculty work with excellent team spirit in different technical teams which lead to key research publications in these areas. The department strives to provide a conducive environment for the students to develop analytical and practical skills and apply them to real world problems



Mr. Sanjay V Wankhade
I/C HOD
CO Department

Vision

To be Centre of excellence in the field of computer engineering by providing value based quality technical education

Mission

- ⊗ To impart & inculcate both theoretical as well as practical knowledge in students
- ⊗ To develop competent professionals who are proficient in analysis, design & implementation of broadly-defined computer problems
- ⊗ To create confident youth with a sense of duty, discipline and responsibility.

Program Educational Objectives (PEOs)

- ⊗ Provide socially responsible, environment friendly solutions to Computer engineering related broad-based problems adapting professional ethics.
- ⊗ Adapt state-of-the-art Computer engineering broad-based technologies to work in multi-disciplinary work environments.
- ⊗ Solve broad-based problems individually and as a team member communicating effectively in the world of work.

Program Outcomes (POs)

1. Basic knowledge: An ability to apply knowledge of basic mathematics, science and engineering to solve the engineering problems.
2. Discipline knowledge: An ability to apply discipline - specific knowledge to solve core and/or applied engineering problems.
3. Experiments and practice: An ability to plan and perform experiments and practices and to use the results to solve engineering problems.
4. Engineering Tools: Apply appropriate technologies and tools with an understanding of the limitations.
5. The engineer and society: Demonstrate knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to engineering practice.
6. Environment and sustainability: Understand the impact of the engineering solutions in societal and environmental contexts, and demonstrate the knowledge and need for sustainable development.
7. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
8. Individual and team work: Function effectively as an individual, and as a member or leader in diverse/multidisciplinary teams.
9. Communication: An ability to communicate effectively.
10. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the context of technological changes.

Program Specific Outcomes (PSOs)

1. Computer Software and Hardware Usage: Use state-of-the-art technologies for operation and application of computer software and hardware.
2. Computer Engineering Maintenance: Maintain computer engineering related software and hardware systems

EDITOR'S PICK

The best place for the young brains to interpret their thoughts, emotions, creativity and opinion is yes, somewhere here with the educational home where they (Students) are with us for most of the active time of day.

They mingle with friends, society build their attributes, accordingly, later apply rules of wisdom and discretion, which then turns them as individual with certain special features.

For these young brains at VES Polytechnic in Computer Engineering program, we care for the thoughts, emotions, interpretations of our students and provide a platform to exhibit it using this early newsletter, which gives them exposure to showcase their talent.

Through this medium I urge more and more students to use this exposure window. All the best and happy holistic learning at VES Polytechnic.

- **Mrs. Vidya S. Lunge**
Faculty & Editor



Guru and his disciple

I bow to the Guru who is the embodiment of the Bliss Divine, the personification of the highest knowledge and the giver of the greatest beatitude, who is pure, perfect, on without a second, eternal, beyond pleasure and pain, beyond all thought and all qualification, transcendental.

Such is in reality the Guru

No wonder the disciple looks upon him as God Himself and trusts him, reveres him, obeys him, follows him unquestioningly.

This is the relation between the Guru and the disciple.

- **Swami Vivekananda**



Staff Activities

Apart from the student's development, the department also focuses on faculty development so that the teachers can adapt themselves with the technological changes. Hence the department encourages the staff to participate in training programs, conference and workshops.

Training Attended

- ⊗ Aditi Yadav attended a three days research funding project and IPR organized by KC College of Engineering and Management
- ⊗ Vidya Lunge published paper for Face Mask Detection for prevention of Covid-19 using Python and indication using Arduino Uno organized by International Research Journal of Modernization in Engineering Technology & Science.
- ⊗ Sonali Pawar attended a two days National Conference on Technological Innovations in Workplace safety organized by VPM Polytechnic.
- ⊗ Pratibha Pednekar developed 3rd and 4th Semester Curriculum for AO branch along with AO Department.
- ⊗ Meena Talele attended one day Entrepreneurship Development Program by IIT Indore, Green Internet of Things by VESIT, Mumbai.
- ⊗ Shubhra Tonge attended five days training on Digital Skills Development for professionals by AICE New Delhi and DTE Mumbai, Symposium on Affective Management by IEEE Pune Section and so on.
- ⊗ Vaishali Bodhale attended five days Data Science and Analytics by IIIT Nagpur, two days of Digital Marketing Session by North Storm Academy and much more.
- ⊗ Shubhangi Chintawar attended five days Data Science and Analytics by IIIT Nagpur, and a week on Research Direction in Security and Computational Intelligence.
- ⊗ Alka Prayagkar attended 4 Weeks on FDP (MOOC) on Effective use of ICT tools in Teaching Learning by Modern College of Pharmacy, Pune, and a week in Usage of Technologies in Covid-19" by Terna Engineering College.
- ⊗ Sangita Bhojar attended a week in Digital Skills Development for Professionals by Bhivarabai Sawant Institute of Technology and Research (BSIOTR), Pune, and 5 days in Inculcating Universal Human Values in Technical Education by AICTE

Students Activities

Co-Curricular Activities

CSI

- ⊗ Video Making Competition with topics based on Covid-19.
- ⊗ A quiz was organized on the topic of C++.
- ⊗ Webinar on Art of learning any Technology by speaker Mr.Jignesh Vasani, Vice President of Professional Services, FarEye
- ⊗ Guest Lecture on Data Visualization by Vedika Patenge from Accenture Technology

TPP

- ⊗ Archita Sehgal won fourth prize in Technical Paper Writing Competition on “Industry 4.0” organized by VPM Polytechnic, Thane
- ⊗ Amaresh Deviprasad Baranwal published a paper on App Development with React Native by International Research Journal Of Modernization In Engineering Technology And Science.
- ⊗ Apurva Mhamane secured a position in Poster Making Competition organized by ISA-VESP

Prizes

- ⊗ Jeet Doshi won 1st Prize in Video Making Competition arranged by CSI Unit of VES Polytechnic
- ⊗ Viraj Bhor won 2nd Prize in Video Making Competition arranged by CSI Unit of VES Polytechnic.
- ⊗ Yash Brid won 3rd Prize in Video Making Competition arranged by CSI Unit of VES Polytechnic

NSS

- ⊗ Reading Without Seeing Webinar was organised on 26th December 2020
- ⊗ Republic Day program on 26th January 2021
- ⊗ Free Health Camp was organized on 26th January 2021

Miscellaneous Achievements by students

- ⊗ Divyal Atul Chheda got an Excellence Certificate in a workshop for Sound and Video Editing.
- ⊗ Amaan Jambura Secured 4th rank among 43 entries in 25th National Conference on Industry 4.0.
- ⊗ Gaurav Ganesh Thombare got Certificate of achievement in Online State level Quiz Competition for Java Programming
- ⊗ Maithili Dilip Bhosale got a Certificate for Paper Publication on App Development using React Native

Students Speaks

DESCRIPTION:

Competition 1: 25th National Conference on 'Industry 4.0'

Organized by: Department of Industrial Electronics &
Department of Computer Engineering - VPM's Polytechnic, Thane
Topic of my Technical Paper: The role of Chatbot in Industry 4.0

Competition 2: TECNOCRATZ 2021

(STATE LEVEL TECHNICAL PAPER PRESENTATION COMPETITION)

Organized by: Agnel Polytechnic, Vashi

Topic of my Technical Paper: The Role of Chatbot to automate hospital reception in the current Covid crisis

BENEFIT OF THE EVENT

Vivekanand Polytechnic is one of the best Institutes in Maharashtra where the teachers provide us with the best technical education and prepare us to face the outside world. One such opportunity was these technical paper writing competitions, in which the best students from across the nation/state gathered to present their technical papers. It is because of my teachers and the moral and technical support they have provided me, that I was able to participate and win these very difficult competitions. In these competitions the best students from the entire state were present which made it all the more challenging. Similarly, when we go for job interviews, we will have to compete with the same students. I am very pleased to say that because of our teachers' efforts, I was able to win these competitions. Because of my teachers' efforts my technical foundation has now become strong which will give me success in my job or business in future. These competitions pushed me in preparing a prototype of my concept in a very short period of time. The content of the paper had to be written in accordance with international standards (IEEE), which was a very unique experience that has prepared me for the real world. After submitting the paper, the selection committee approved it, which was a huge accomplishment for me. The final stage was the presentation of the paper in front of a very prominent and respected jury, the members of which had degrees as high as a PhD. They have asked me pertinent questions to which I had to respond on the spot. Because of my training I have received from my teachers I was able to answer all the questions to the satisfaction of the jury which helped me to win these competitions. All this extracurricular activity has prepared me to face the real world and its challenges. I'd like to thank our college Principal, Teachers, and Lab Assistants for all they've done for my all round development.

Name: Archita Dinesh Sehgal

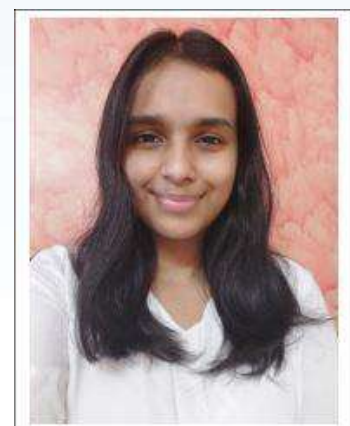
Program code: C06IA

Activity: State level technical presentation competition

Level of Activity: State Level

Date-Rank:

- Competition 1
VPM's Polytechnic, Thane
28-29 October, 2020
4th Rank in India
- Competition 2
Agnel Polytechnic, Vashi
14-15 May, 2021
2nd Rank in State



All About GDP

What Is Gross Domestic Product (GDP)?

Gross domestic product (GDP) is the total monetary or market value of all the finished goods and services produced within a country's borders in a specific time period. As a broad measure of overall domestic production, it functions as a comprehensive scorecard of a given country's economic health. Though GDP is typically calculated on an annual basis, it is sometimes calculated on a quarterly basis as well. In the U.S., for example, the government releases an annualized GDP estimate for each fiscal quarter and also for the calendar year. The individual data sets included in this report are given in real terms, so the data is adjusted for price changes and is, therefore, net of inflation. In the U.S., the Bureau of Economic Analysis (BEA) calculates the GDP using data ascertained through surveys of retailers, manufacturers, and builders, and by looking at trade flows.

Understanding Gross Domestic Product (GDP):

The calculation of a country's GDP encompasses all private and public consumption, government outlays, investments, additions to private inventories, paid-in construction costs, and the foreign balance of trade.(Exports are added to the value and imports are subtracted). The GDP of a country tends to increase when the total value of goods and services that domestic producers sell to foreign countries exceeds the total value of foreign goods and services that domestic consumers buy. When this situation occurs, a country is said to have a trade surplus. If the opposite situation occurs—if the amount that domestic consumers spend on foreign products is greater than the total sum of what domestic producers are able to sell to foreign consumers it is called a trade deficit. In this situation, the GDP of a country tends to decrease. GDP can be computed on a nominal basis or a real basis, the latter accounting for inflation. Overall, real GDP is a better method for expressing long-term national economic performance since it uses constant dollars. For example, suppose there is a country that in the year 2009 had a nominal GDP of \$100 billion. By 2019, this country's nominal GDP had grown to \$150 billion. Over the same period of time, prices also rose by 100%.

-By Karthika Thevar



What does GDP mean?

Everything around us is a part of GDP . It's the clothes we wear , cars we drive , the food we eat , doctors, hair dressers , teachers , etc . It stands for GROSS DOMESTIC PRODUCT . It is the total value of goods and services produced in the country . Hence , it measures How "Large" the Economy Is . It is calculated by adding Consumer Spending , Government Spending , Investments and the Net Experts.

$GDP = C + G + I + NX$.

Consumer Spending is the money you and I spend on our daily consumption on physical goods. Eg.: Tea Medicine , Etc.

Government Spending is the money the government spends on public welfare. Eg.: Roads , Hospitals , Schools , Defence .

Investment are how much money various businesses spend for their business operations. Eg. : Buildings

Net Experts = Total Experts - Total Imports .

It gives insight into a countries economy and enables comparison with other countries. High GDP growth is essential to meet the growing needs of the population.

-By Mrunmayee Dalvi



ACADEMIC RANKERS

COMPUTER ENGINEERING / DIVISION A

FIRST SEMESTER - CO11 W20-21		
RANK	NAME	Percentage
1	AGARWAL KUSH AJAYKUMAR	99.14
2	VRUSHTEE RAJESH JASANI	97.86
3	NANDHA AKSHAT RAJENDRAKUMAR	97.71

THIRD SEMESTER - CO31 W20-21		
RANK	NAME	Percentage
1	GURNANI YASH PRAKASH	99.87
2	KORLA YASH AJAY	99.73
3	DOSHI JEET HEMAL	99.33
	RUTUJA SUHAS HALADKAR	
	DEMBWANI NIPOON SUNIL	
	SHAH ZENITH ATUL	

FIFTH SEMESTER - CO51 W20-21		
RANK	NAME	Percentage
1	ARCHITA DINESH SEHGAL	100
2	JADHAV GAURANG SHIVAJI	99.89
3	MANER PRATHAM VIKAS	99.78

SECOND SEMESTER - CO21 S20-21		
RANK	NAME	Percentage
1	AGARWAL KUSH AJAYKUMAR	94.75
2	VRUSHTEE RAJESH JASANI	93.38
3	PANCHAL DHRUV SURESH	91

FOURTH SEMESTER - CO41 S20-21		
RANK	NAME	Percentage
1	KORLA YASH AJAY	95.07
2	DOSHI JEET HEMAL	94.53
3	GANGWANI MOHIT MUKESH	94

SIXTH SEMESTER - CO61 S20-21		
RANK	NAME	Percentage
1	ARCHITA DINESH SEHGAL	98.35
2	SHAH KENIL DILIP	95.88
3	JAMBURA AMAAN MOIZ	95.76

COMPUTER ENGINEERING / DIVISION B

FIRST SEMESTER - CO11 W20-21		
RANK	NAME	Percentage
1	SMIT JAYESH RAMBHIA	99
2	SATRA AAYUSH CHANDRAKANT	97.86
3	DEWANI SNEHA SUNDERDAS	97.57

THIRD SEMESTER - CO31 W20-21		
RANK	NAME	Percentage
1	Nikale Arya Abhay	100
2	CHUGEJA PIYUSH KAMLESH	
		VIRDI MANRAJ SINGH SURINDERSINGH
3	LUND VINESH DEEPAK	99.2

FIFTH SEMESTER - CO51 W20-21		
RANK	NAME	Percentage
1	BARANWAL AMARESH DEVIPRASAD	100
2	BADIWALE PAURAVI PRASAD	99.89
3	SHAH MANAN SANJAY	99.44
	THAKUR YUVRAJ BIPIN	

SECOND SEMESTER - CO21 S20-21		
RANK	NAME	Percentage
1	SMIT JAYESH RAMBHIA	95
2	DEWANI SNEHA SUNDERDAS	93.625
3	NATHWANI CHAHAT MULCHAND	93.125

FOURTH SEMESTER - CO41 S20-21		
RANK	NAME	Percentage
1	CHUGEJA PIYUSH KAMLESH	96
2	MODY RACHIT MITESH	95.2
3	VIRDI MANRAJ SINGH SURINDERSINGH	95.07

SIXTH SEMESTER - CO61 S20-21		
RANK	NAME	Percentage
1	BARANWAL AMARESH DEVIPRASAD	96.71
2	SHAH MANAN SANJAY	95.88
3	THAKUR YUVRAJ BIPIN	95.65



WHY INTERNSHIP?

You need experience to get experience. This seems to be the biggest issue for young adults transitioning into the workforce these days. Employers in today's labor market rely heavily on resumes that illustrate a relevant work history, whether that's from internships, volunteer work, or actual job experience. A practical work background carries a major significance when attempting to enter the job market. It's all about competition. Not only are businesses competing against each other for a competitive advantage, but people are also competing to land that coveted position in a company. Even your peer in college has become your competition. Take a moment and think about it. If you're looking to gain experience, working as an intern is arguably the most advantageous plan of action. That one internship you did over summer could be the difference between winning a job opportunity or losing it. Students of Computer department of V.E.S Polytechnic, have been working as an intern at various companies named below:

HNR Tech Pvt. Ltd. | Insys Technologies | Encora Innovation Labs | Seaforce Security Services | Nelson Food Products | Swami Samarth Pet Industries | GB Softronics Solution and so on



- Mrs Alka Prayagkar
CO Internship In-Charge

Editorial Members

Students Team Member



1. Jeet Doshi



2. Srushti Shete



3. Rachit Mody

Staff In-charge

Mrs. Vidya S. Lunge