



NEWSLETTER 2020-21 TERM II ISSUE II

TECH NEWS

Official Newsletter of the department of MCA
(P.E.S. Modern college of Engineering , pune)

**"IT'S NOT THAT WE
USE TECHNOLOGY,
WE LIVE
TECHNOLOGY!"**



About Us...

From the Principal's desk : The aim of the institute is to develop not just top quality engineers but also well-developed persons. Our motto therefore is “the joy of excellence in a world of high technology ”As professionals you are required to gain knowledge and use it effectively even when you are exposed to pressure. You can surely face the challenges in the world with great courage if you can manage your valuable time and set your priorities, by having healthy competition and team spirit. Working in a team, effectively yields best results, even under tight deadlines. My congratulation to MCA Department for their consistent efforts in making newsletter and I wish that they will continue to do this in the years to come.

– Dr. Mrs. K. R. Joshi

From the HOD's desk :It 's a great pride to present our Master of Computer Application Department 's e- Newsletter “TechNews”, our very own newsletter which includes different activities articles and achievements of the MCA students. My congratulations to the team who took the responsibility for carrying out this task effectivel

- Dr. Mrs.Pradnya Muley

From the Editor's desk :It gives me an immense pleasure to present our biannual e- newsletter “TechNews” for the current semester. I would like to thank our HOD and my colleague's for their support in making of this issue. We have worked hard to bring up an exhilarating flashback of the events, achievements during the session 2021-22 Term I. I hope you find it interesting.

- Miss. Mugdha Dharmadhikari

About the Department :The department of Master of Computer Application (MCA) has been started in the academic year 2003- 04 and is permanently affiliated to Savitribai Phule Pune University and recognized by AICTE and DTE. The mission of the department is to contribute to the growth of technical education and to lead to its enrichment and advancement.

Department vision :To develop Competent Technocrats in the field of Computer applications imbued with human values.

Department Mission :

1. To impart knowledge in the field of Computer applications with a focus on developing the required competencies.
2. To improve technical skill of the students through practical and hands-on experience.
- 3.To make students socially responsible citizens
4. To enhance the quality of the students by collaboration with Alumni and Industry.



This issue:

About Us

YoPEO & PO

Tech News
Cyber Security

Departmental
Activities

Student
Achievements

Student
Achievements

PROGRAM EDUCATIONAL OBJECTIVES

PEO 1 : Graduates will possess the broad knowledge of computer applications for successful careers in industry.

PEO 2 : Graduates will exhibit professionalism, ethical attitude, communication skills, team work in their profession and adapt to current trends by engaging in lifelong learning.

PEO 3 : Graduates will contribute as responsible citizens with a commitment to the sustainable development of society.

Program Outcomes (PO's):

After completing MCA degree student will be able to:

1. Apply knowledge of mathematics, computer science appropriate for real world applications.
2. Identify, formulate, analyze and solve complex computing problems using relevant domain disciplines.
3. Design and evaluate solutions for complex computing problems that meet specified needs for real world applications.
4. Apply programming logic including design of algorithm, programs, analysis and interpretation of data to provide valid solutions.
5. Apply appropriate techniques and modern computing tools for development of real world applications.
6. Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practices.
7. Understand the need and develop the capacity to persistent learning for continual development as a computer professional.
8. Participate as a member and leader in a team and stand out in multidisciplinary environments to demonstrate computing and management skills.
9. Communicate effectively to comprehend and present effective technical Documentation.
10. Apply the computing knowledge efficiently & effectively with concern for societal, environmental, and cultural aspects relevant to professional computing practices.
11. To contribute effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.
12. To identify a timely opportunity and innovation with entire effort to function as a successful entrepreneur.

PROGRAM EDUCATION OBJECTIVES AND PROGRAM OUTCOME



THE 5G TECHNOLOGY

What is 5G all about?

5G is the next buzzword in the field of wireless technology networking. Simply said, it is wireless technology's fifth generation. The fifth generation of technology is expected to be bigger, faster, and better. 5G architecture is based on a considerably higher next-generation technology plane, with the goal of connecting everything and everyone – people, buildings, cities, sensors, smartphones, robots, and drones. As compared to the existing wireless technology, it will have higher data rates, reduced latency, higher capacity system, energy savings and cost reductions. It will bring new capabilities and create opportunities for society and business.

Differences between the previous generations of mobile networks & 5G

The Foundation and Future of Connectivity

The fifth generation of wireless technology or 5G, will meet the demands of billions of connected devices. Here's a snapshot of how far we've come and how we get there



The first text message- Merry Christmas is sent in the UK (Dec, 1992)

By 2006, 28% of people between the age group 18-29 are using mobile internet.

By 2011, speeds are reliable enough for CNN to be the first news organisation to stream its contents.

10S of billions of connected devices sensors objects & things

5G's fiber-like speeds provide nearly instant access. Coupled with on-device intelligence, 5G will enable groundbreaking experiences across a host of devices we use in our daily lives.

How is 5G better than 4G?



Speed 100 times faster than LTE with 1-10 Gb/s



Massive connections 100-fold increase of supported devices to 1mn devices/km²



Latency and reliability improvements from 20 ms to <1ms with 99.999% reliability



Energy efficiency power consumption reduced by 90%

Activity Execution Report 2020-21

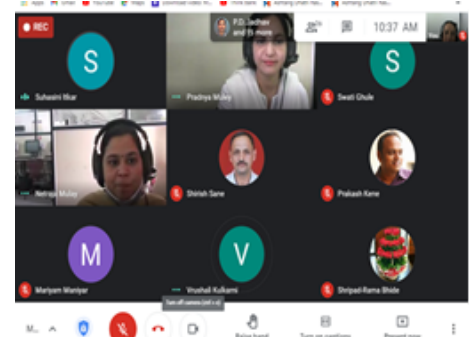
Term II

Title of the Activity : One Day Online Faculty Development Program on Syllabus Orientation on "Data Science" for FYMCA (2019 Course), in association with Board of Studies (Computer Engineering) Savitribai Phule Pune University.

Category of Activity : Co-Curricular

Objective : 1.To provide information to respective faculties regarding syllabus
2.To get the insights on intricacies of topics from subject experts and Industry persons
3.To discuss and solve the doubts of faculty members pertaining to syllabus

Name of Speaker : Ms. Vrushali Kulkarni

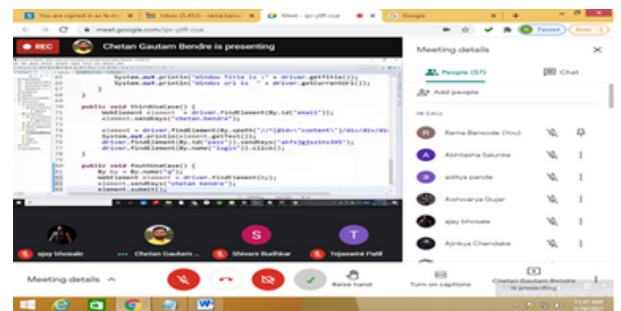


Title of the Activity : Hands on - Selenium Web driver

Category of Activity : Co-Curricular

Objective : To introduce students with Selenium Web Driver

Name of Speaker : Mr. Chetan Bendre



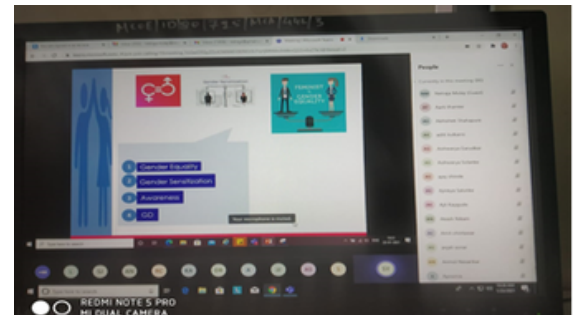
Title of the Activity : Session on Gender Equality

Category of Activity : Co-Curricular

Objective : Co-Curricular

Name of Speaker : The objectives of the session are

- 1.To Introduce concept of gender quality
- 2.To differentiate between sex and gender
- 3.To understand the concept of gender sensitization.



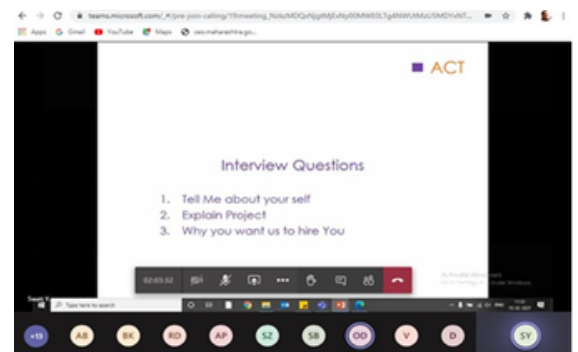
Title of the Activity : Interview Techniques and Soft skills

Category of Activity : Pre- Placement activity

Objective : 1. Develop effective communication skills (spoken and written) and presentation skills.

2. Become self-confident individuals by mastering interpersonal skills, team management skills, and leadership skills.

Name of Speaker : Ms. Swati Birajdar

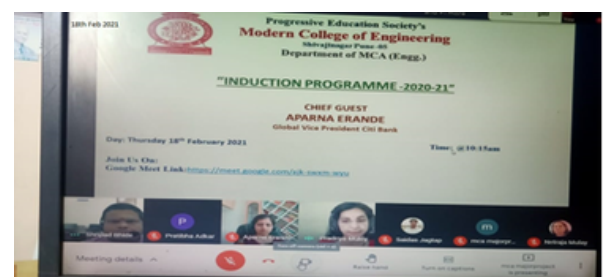


Title of the Activity : Induction Programme of FY students 2020

Category of Activity : Co-Curricular

Objective : To introduce students with staff, Dept. College, moral, values

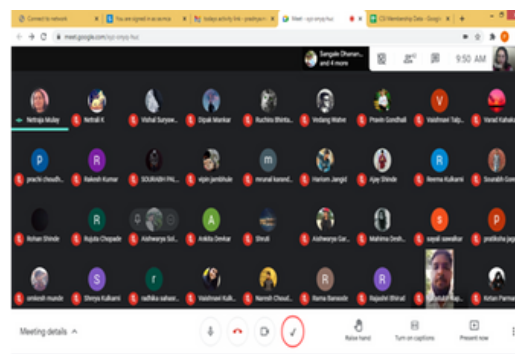
Name of Speaker : Ms. Aparna Erande



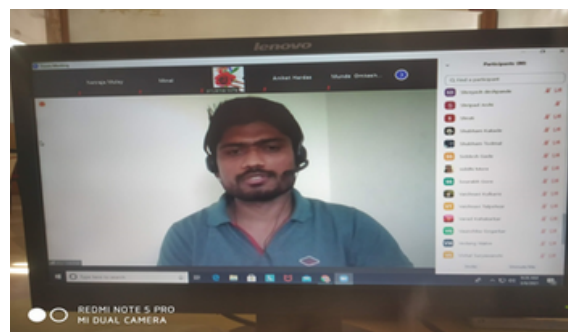
Activity Execution Report 2020-21

Term II

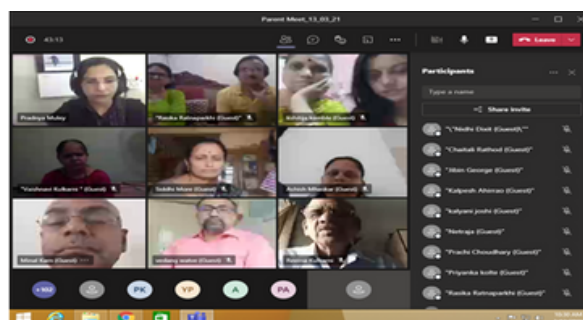
Title of the Activity : Shivaji Maharaj the Ideal Ruler
Category of Activity : Extra-Curricular
Objective : To express thoughts on Shivaji Maharaj
Name of Speaker : Mr.Kaustubh Kapdani



Title of the Activity : Data Analysis Using Python Pandas
Category of Activity : Co-Curricular
Objective : 1. To create awareness among the students regarding various data analysis tools.
 2. To introduce python as a data analysis tool.
 3. To carry out data analysis using python pandas library.
Name of Speaker : Mr. Atul Wadkar



Title of the Activity : Online Parents Meet
Category of Activity : Co-Curricular
Objective : 1. To convey department vision and mission to parent.
 2. To convey parent the performance of ward.
 3. To discuss issues of student with parent.
 4. To know issues of parent regarding student
Name of Speaker : All students and parents



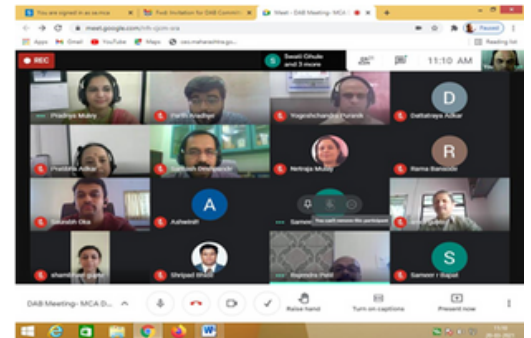
Title of the Activity : National Level Technical Competition "M-Technophilia" Under M-Pulse
Category of Activity : Co-Curricular
Objective : 1. To enhance the technical and managerial skills of students.
 2. To provide a platform to the students to showcase their talent through technical skills and innovative ideas.
Name of Speaker : Prof.Dr.Amlan Chakrabarti



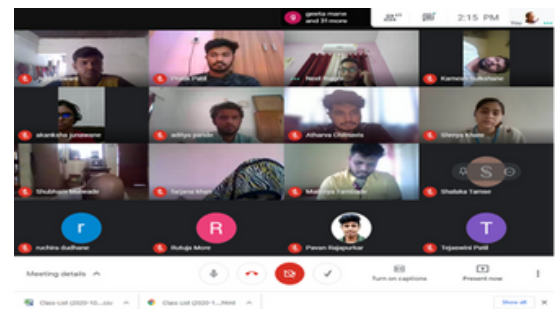
Activity Execution Report 2020-21

Term II

Title of the Activity : Department Advisory Board Meeting
Category of Activity : Department Advisory Board
Objective : 1.To discuss the academic plans and recommend standard practices/systems for attainment of PEOs
2.Encourage for industry-institute interactions to bridge up curriculum/industry gap and suggest quality improvement initiatives to enhance employability.
Name of Speaker : Dr. Sameer Bapat, Dr. Santosh Deshpande, Dr. Dattatray Adkar



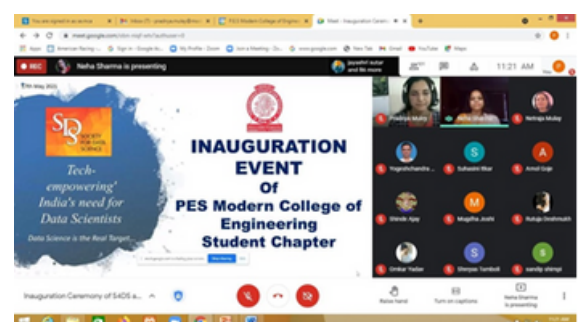
Title of the Activity : Guest Lecture on Android Application (Online Mode)
Category of Activity : C0-Curricular
Objective : To introduce students with Android Application Development
Name of Speaker : Mr. Gaurav Lonkar



Title of the Activity : Guest Lecture on DMS and Data Science
Category of Activity : C0-Curricular
Objective : To introduce students the importance of Discrete mathematics and Statistics in relation with Data Science
Name of Speaker : Dr. Santosh Deshpande



Title of the Activity : Inauguration Function of S4DS professional Society chapter
Category of Activity : C0-Curricular
Objective : To Inaugurate the professional society chapter namely S4DS, Society for Data Science at MCOE and get acquainted with the activities and functions of S4DS.
Name of Speaker : Dr.Neha Sharma



STUDENT ACHIEVEMENTS

Name of the Student :- Rutuja Chopade
Name of the Event :- Kala-Darpan
Organized By :- Modern Institute of Business Management
Position :- Participation
Date of Activity :- 27/02/2020
Level :- Local

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Name of student :- Sakshi N Jadhav
Name of event :- A National Level E-Poetry Writing Compilation
Organized By :- A.R.Burla College A National Level E-Poetry Writing Competition
Position :- Participation
Date of Activity :- 8/8/2020
Level :- National

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