Institute Best Practices

Best Practice – I

1. Title: - Competency-Based Education and Assessment

2. Objectives of the Practice:

1. To incorporate experiential learning opportunities and participatory learning methods to create a student-centered environment.

2. To bridge the gap between theoretical knowledge and practical application

3. To enhance students' problem-solving and critical-thinking skills

3. The Context:

1. Passive learning approaches: Conventional teaching methods often rely on passive learning, focusing primarily on delivering content through lectures, limiting students' active engagement.

2. Limited practical application: The lack of practical application in education hinders Students' ability to apply their knowledge and skills to real-world situations, resulting in insufficient connection between theory and practice.

3. Varying student abilities and learning styles: Students have diverse abilities, learning styles, and prior knowledge, making it challenging to meet their individual needs and ensure equal opportunities for competency development.

4. The Practice:

The practice incorporates Experiential and Participative Learning methods to create an engaging and impactful learning experience. It includes activities such as prototype development, project-based learning, industrial visits, case studies, simulations, mentorship programs, group discussions, research projects, and the use of multimedia resources. These activities provide students with practical exposure, foster critical thinking, problem-solving, and collaboration, and facilitate the integration of industry perspectives into the learning process.

Constraints and limitations: -

1. Time constraints: Implementing experiential and participative learning activities requires additional time compared to traditional teaching methods. This poses challenges in covering the required curriculum within limited class hours.

2. Resource availability: Providing resources, such as materials for prototypes, software for simulations, or industry partnerships for visits, are limited.

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3. Faculty training and expertise: Faculty members require support to effectively disseminate and implement experiential and participative learning approaches.

4. Assessment challenges: Assessing competencies acquired through experiential and participative learning is complex.

5. Resistance to change: Introducing a competency-based approach and shifting from traditional teaching methods to innovative is a significant challenge.

5. Evidence of Success:

The effectiveness of implementing experiential and participative learning methods has been evaluated through a Google Form survey, gathering feedback from students who actively participated in these activities. The results indicate that a significant portion of faculties have successfully incorporated key elements of experiential learning, such as discussing case studies (60.2%) and showcasing videos on the latest technologies and advancements (44.3%). In terms of participative learning, the practice of engaging students in open-ended questions received the highest focus (64.6%), closely followed by subject-specific group discussions.

Additionally, the survey highlights the implementation of various other activities to enhance student learning.

- A significant 69.3% of students reported a notable gain in their level of practical experience.
-71.5% of students mentioned a significant improvement in their knowledge level.
- An impressive 71.4% of students reported a noticeable enhancement in their collaboration, teamwork, and communication skills.
- 70.1% of students reported an improvement in their understanding and memory retention.
- An encouraging 72.6% of students reported a significant increase in their level of confidence.
- 70.4% of students reported a notable improvement in their creative problem-solving skills.

Overall, the implementation of different activities involving experiential and participative methods has led to a significant improvement in various areas as reported by the students.

6. Problems Encountered and Resources Required:

1. Lack of awareness and understanding among faculty members and students.
2. Resistance to change from traditional teaching and assessment methods to adopt new approaches.
3. Lack of faculty training and development programs.
4. Limited availability of resources such as technology, infrastructure, learning materials, and assessment tools.

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Addressing these problems and allocating the necessary resources can facilitate the successful implementation of Competency-Based Education and Assessment, enabling effective teaching and learning practices aligned with desired learning outcomes.

Dr. F. B. Sayyad
Principal

Principal
Ajeenkya DY Patil School of
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Institute Best Practices

Best Practice – II

1. Title: - Bridging the Gap between Education and Employment through Industry Connect.

2. Objectives of the Practice:

1. Enhance students' employability by aligning their skills with industry requirements.
2. Foster collaboration and knowledge exchange between educational institutions and industries.
3. Provide students with real-world exposure and practical experience through internships, mentorship opportunities and collaborative projects with industry.
4. Update teaching methods to include the latest industry trends and topics.
5. Promote skill development, upskilling, and reskilling to address evolving industry needs.

3. The Context:

1. Outdated curriculum: Traditional educational systems often focus on theoretical knowledge, neglecting practical skills required by industries.
2. Skill Gaps: Graduates often struggle to find suitable employment due to a lack of relevant skills and practical experience needed by industries, resulting in limited job opportunity
3. Lack of industry exposure: Many students complete their education without having a clear understanding of the industrial requirements.

4. The Practice:

This comprehensive practice aims to bridge the gap between education and employment. Key elements include:

1. Industry partnerships: Formal agreements with industry for collaboration, resource exchange, and shared goals.
2. Address relevant industry topics: Incorporating latest trends, technologies, and case studies into the curriculum.

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3. Product surveys: Students gather insights on consumer preferences and industry demands.

4. Industry visits: Physical or virtual visits to gain firsthand knowledge of operations and work environments.

5. Guest lectures: Industry experts deliver talks to share expertise and insights.

6. Mentorship programs: Engaging industry professionals as mentors for career guidance.

7. Sponsored projects: Collaborative projects with industry partners to tackle real-world challenges.

8. Internships: Providing practical experience through industry internships.

9. Research on industrial problems: Publishing conference papers focusing on industry issues.

10. Hands-on workshops: Practical sessions using industry-specific tools and technologies.

11. Skill development courses: Offering upskilling and reskilling programs to enhance employability. These activities aim to align academics with industry needs and provide practical exposure for better employability.

Constraints/Limitations:

Some constraints and limitations that are faced in implementing the above practices include:

1. Resistance to change: faculty members are resilient to modifying the existing teaching methods beyond the syllabus due to the University Syllabus.

2. Industry collaboration: Establishing and maintaining strong partnerships with industry partners is challenging.

3. Faculty training and readiness: Faculty members need to train and upskill in order to incorporate the latest industry topics and new teaching methodologies.

4. Resource constraints: Implementing industry connect initiatives requires additional funding, infrastructure, and industry-specific tools and equipment

5. Evidence of Success: To assess the level of success, student feedback was collected through a Google Form. The feedback reveals the following findings:

1. In relation to this practice, faculties have engaged in various activities. The foremost is discussing advanced topics, trends, advancements, and technologies in the industry sector. The next focus was on industry issues, problems, and challenges. Next to it, faculties emphasized skill development courses available in the market related to the subject. And faculties organized guest lectures by industry professionals, among other activities.

2. 95.8% of students (1801 out of 1879 respondents) believe that the practices will secure employment after completing their education.

3. 95.4% of students (1793 out of 1879 respondents) reported gaining practical experience and skills through the implemented practices.

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4. 89% of students (1672 out of 1879 respondents) mentioned being exposed to industry practices through the initiatives.

5. 66.65% of students (32.1% extremely agree + 34.55% significantly agree) believe that the level of employability has increased through the implemented practices.

6. Problems Encountered and Resources Required:

Problems that are encountered during the implementation of this practice include less adaptability to change, limited industry participation, and resource constraints. Resources required to implement this practice effectively include:

1. Industry collaborations: Establishing and maintaining partnerships with industries across various sectors.
2. Faculty development and exchange: Providing training and workshops to faculty and faculty exchange initiatives with industry for bridging the gap between academia and industry.
3. Infrastructure: Upgrading labs, equipment, and facilities to support practical training.
4. Networking platforms: Creating platforms for students, faculty, and industry professionals
5. Monitoring and evaluation: Allocating resources for monitoring and evaluating the effectiveness of the practice and making necessary improvements
6. Training of non-teaching staff to support the execution of the practice.

Dr. F. B. Sayyad
Principal

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Documents attached....

- Best Practices Sample Forms
- Best Practices Reports
- Best Practices Feedback Forms
- Best Practices Assessment Forms
- Minutes of Meetings
- Action Taken Reports

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Academic Year 2022-23 **Form No. IQAC/44**

Best Practice – I

Competency Based Education and Assessment

Name of the faculty: - Mr. Riyaj L. Kazi

Name of the Subject :- Power Devices and Circuits.

Department: E&TC

Class: T.E. Div: A & B

Competency Based Learning (Part A and Part B)

It is an active, adaptive, experiential and participatory learning where students' choice and voice are present in order to bring variety and variation in learning.

Note- Part A and B should cover latest developments, advancements, innovations and technologies in the subject domain.

{Select at least Three from each of Part-A & Part-B for every subject and map the outcome of activity}

Part A- Experiential Learning (Learning by Doing) **(Reference:** NAAC Manual Pg. 72)

Is a process of learning through experience and is more specifically defined as "learning through reflection on doing".

The following statements/ questions are related to the subject you teach in this semester

1. Is it possible to develop any prototype or model by the students related to the subject? Yes / No

   If Yes, mention the related UNIT No. ..... and Prototype Name - .....

2. Do you want to show any product demo to the students related to any topic / UNIT? Yes ✓ / No

   If Yes, mention the related UNIT No. VI. and Name of the Demo - AC Voltage Controller

3. Do you want to assign any mini / major project to the students related to any topic? Yes / No

   If Yes, mention the related UNIT No. ..... and the Project Name- .....

4. Are you going to arrange any industrial / Field / Laboratory visit? Yes / No

   Name of Industry /Field/Lab visit - Visit to Solar Power Plant.

Yes ✓ / No

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5. Do you want to discuss a case studies related to the subject domain?
   If Yes, mention the UNIT No. ..... and Title of the case study - .....
6. Do you want to focus on any simulation/gaming based learning in the subject? [Yes] [No]
   If Yes, mention the UNIT No. ..... and Name of the Simulation/Game- .....
7. Do you want to assign any mentor from industry /company to the students so that they can understand the subject well? [Yes] [No]
   If Yes, Name of the mentor and Industry name – .....
8. Is there any student club at department /college level related to the subject domain? [Yes] [No]
   If Yes, Number of students to be enrolled to the club –
9. Do you want to conduct any workshop related to the subject domain? [Yes] [No]
   If Yes, Name of the workshop- ..... No. of students enrolled –
10. Do you want to invite any expert / guest from an industry related to the subject? [Yes] [No]
    If Yes, Name of the expert- Mr. Ayaz Sayyad Name of the Topic – Power Devices & Applicat's – Live Demo
11. Do you want to empower the students to join an ad-on- course related to the subject? [Yes] [No]
    If Yes, Name of the Ad-on-courses available - .....No. of students to be enrolled –
12. Do you want to empower the students to join a skill and practical oriented courses related to the subject? [Yes] [No]
    If Yes, Name of the course available - .....No. of students to be enrolled –
13. Do you want to show a few videos on advances, latest development and technology in the domain or subject? [Yes] [No]
    If Yes, Number of Videos to be shown (maintain the record)- 6 videos. One on each unit.
14. Any course available for the students w.r.t the subject domain at different learning platforms like Udemy, Coursera, Skillshare, MasterClass, Edx, Udacity etc. [Yes] [No]
    Name of the courses -4 NPTEL Courses available 1) nptel.ac.in/courses/108/105/108105066/ 2) nptel.ac.in/courses/108/102/108102145/ 3) nptel.ac.in/courses/108/107/108107128/ 4) nptel.ac.in/courses/108/108/105108077/

Part –B Participative Learning (Learning by participating) (Reference- NAAC Manual Pg. 75)

Participatory Learning and Action is a family of approaches, methods, attitudes, behaviours and relationships, which enable and empower people to share, analyze and enhance their knowledge of their life and conditions, and to plan, act, monitor, evaluate and reflect.

1. Do you want to ask open ended questions in the domain? [Yes] [No]
   UNIT No.- ..... Question 1:- .....
   UNIT No.- ..... Question 2:- .....

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UNIT No.- ..... Question 3:- .....

2. Do you want to conduct group discussion/ Buzz sessions in the subject domain? Yes / No

   UNIT No.- ..... Topic - .....

   UNIT No.- ..... Topic - .....

3. Do you want to use a question bowl approach in the discussion? Yes / No

   Topic- Power Devices and Applications.

4. Do you want to conduct news analysis with the help of student on any topic? Yes / No

   Unit No. ..... Example .....

5. Do you want to focus on peer learning w.r.t. the subject? Yes / No

   Unit No. V & VI Example Power Devices Protection & Applications

6. Do you want to use survey methods with the help of student to understand any topic? Yes / No

   Unit No. ..... Example .....

7. Do you want to use Brainstorming session to understand the topic better? Yes / No

   Unit No. ..... Name of the Topic .....

8. Do you want to conduct a small scale research in the subject domain with the help of students? Yes / No

   Unit No. ..... Topic .....

9. Do you take any initiative with the help of the students to collect information related to a topic for better learning? Yes / No

   Unit No. VI Topic Batteries: Architecture/charging Models for EV

10. Is there any possibility of using a critical incident in the subject domain for better teaching and learning? Yes / No

    Unit No. ..... Incident .....

11. Do you want to use the approach of video viewing and discussion? Yes / No

12. Do you want to use any other participatory approach or method or game in teaching and learning? Yes / No

    Name of the approach /method/game - .....

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Best Practice – II

Bridging the Gap between Education and Employment through Industry Connect

Name of the faculty: - Mr. Riyaj Kazi

Name of the Subject: - Power Devices & Circuits Class: T.E. Div: A & B

Sector of the industry Identified: - Power Electronics

Name of the industry to be connected:- .....

Plan of Action (PoA):- {Select at least five for each subject and map the outcome of activity}

1. Do you want to sign Sign MoU with the industry? Yes No Tentative date to sign the MoU:- ...../...../2023
2. Are there any hot topics, areas, trends, advances, technologies in the industry sector? ✓ Yes No
   Mention Names- Power Electronics in Electric Vehicles.
3. Do you want to identify issues, problems and challenges in the industry? Yes No
   List the issues.....
4. Do you want to conduct the product survey of the industry with the help of students? ✓ Yes No
5. Do you want to let the students to understand the website of the industry? ✓ Yes No
6. Do you want to arrange a physical visit to the industry? Yes No
7. Do you want to arrange a virtual visit of the industry? Yes No
8. Do you want to arrange a guest lecture? Yes No
   Title of the guest lecture -.....
9. Is it possible to get sponsored project(s) from the industry for the final year students? Yes No
10. Is it possible to get internship for the SE/TE students from the industry? Yes No

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11. Do you want to write a conference paper/article on the best practices of the industry by involving students? Yes No

12. Do you want to arrange a hands-on workshop for the subject in collaboration with the industry?
Title of the workshop - Power Electronic System Design, Working & Demonstration. Yes No

13. Is there any skill development course available in the market w.r.t the subject? Yes No
Title of the course - Basics of Power Electronics. [Si, SiC, GaN, LTSpice, DC/DC Converters, Inverters etc]

14. Are there any skilling, upskilling, reskilling or multiskilling trainings /workshops available at, NSDC/Skill India/Make in India for the subject? Yes No
Names of the courses –

15. Do you want to motivate the students to participate in National/international employability tests or exams in the subject? Yes No
Name of the tests - .....

Sign of Subject Teacher:

Sign of HoD

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Best Practice-I

Competency-Based Education and Assessment

Sr. No	Activity Title
1	Educational Visit to Electric Vehicle Charging Station
2	Educational Visit to Solar Power Plant
3	Question Bowl approach in discussion
4	Peer Learning Activity: Advanced Learner -Electric Vehicle Batteries

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Form No. IQAC/30

Date: 26/04/2023

Event Report

Academic Year: 2022-23 **Semester-II**

Name of the event: Educational Visit to EV charging Station

Date and Time	Wednesday, 26/04/23, 11:30 AM
Event Venue	Dr. D Y Patil Knowlegde City
Organized by	Department of E&TC
Targeted Audience	TE Students & Staff
Resource Person	Mr. Riyaj Kazi

Contents:

1. Introduction to EV Charging
2. Working of EV Charging Station
3. Technical Details
4. Levels of EV Charging Stations
5. Solar Powered EV Charging Stations
6. Government of India Initiative

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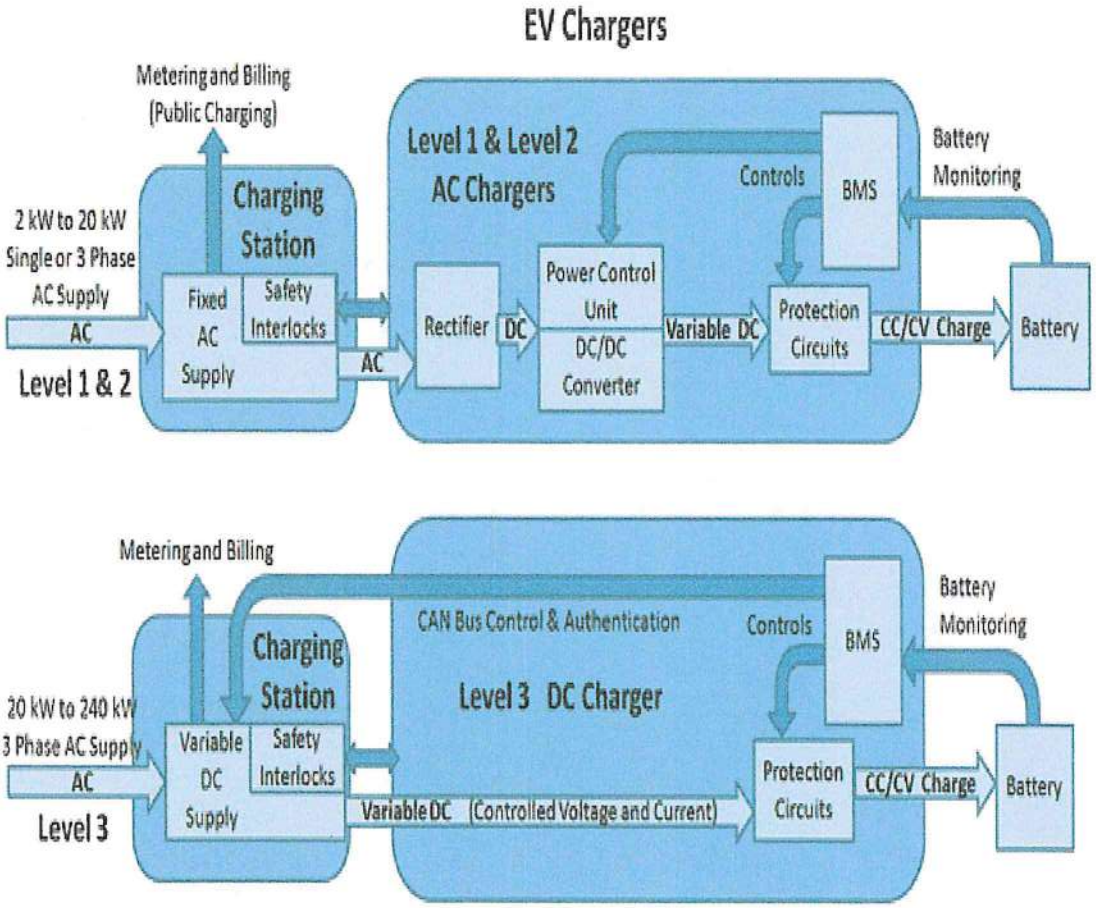
INTRODUCTION:

Electric charging station is an element in an infrastructure that supplies electric energy for the recharging of electric vehicles, such as plug-in electric vehicles, including electric cars, plug-in hybrids, etc.

Charging stations are inevitable part of electric vehicle ecosystem. In case of India, with road network of 54,72,144 kilometers, the country needs nation wide network of charging stations for electric vehicles as government is planning to sell only EVs by 2030.

WORKING:



Electricity from the grid is delivered as alternating current (AC) but requires direct current (DC). A rectifier needs to sit between the grid and the battery to convert one to the other. For home and

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third party public charging this AC-to-DC conversion is done by the EVs on-board rectifier. AC current at the charge port is converted to DC for the battery by the rectifier.

Superchargers deliver high voltage, high current DC electricity directly to the EVs battery, bypassing the on-board rectifier. This allows the Supercharger to push electricity into the battery as fast as the battery can take it typically ten times faster than home charging.

TECHNICAL DETAILS:

For those of a technical bent, here's how atypical DC charging station is configured the whole setup, takes a 12 kV, 750 kVA feed from the utility, steps it down to 480V three phase on site, pushes that into 2000A switch gear which feeds four banks of charging units at 480V/200A. Each unit contains twelve 10 kW rectifiers (the same rectifier that is found in EVs) giving a total of 120 kW per pair of pods.

LEVELS OF EV CHARGING STATION:

Level 1, 120 Volt Charging The slowest form of charging. Uses a plug to connect to the on-board charger and a standard household outlet.This setup provides between 2-5 miles per hour.

Level 2, 220/240 Volt Charging Provide power at 220v or 240v and up to 30 amps. Drivers can add 10-25 miles of range in an hour of charging at home or at a public station.

Level 3, 480 Volt Charging Some refer to this charging as DC Fast charging. In this case, the charger is a gas pump-sized machine. All fast chargers deliver about 80 charge in 30 minutes.

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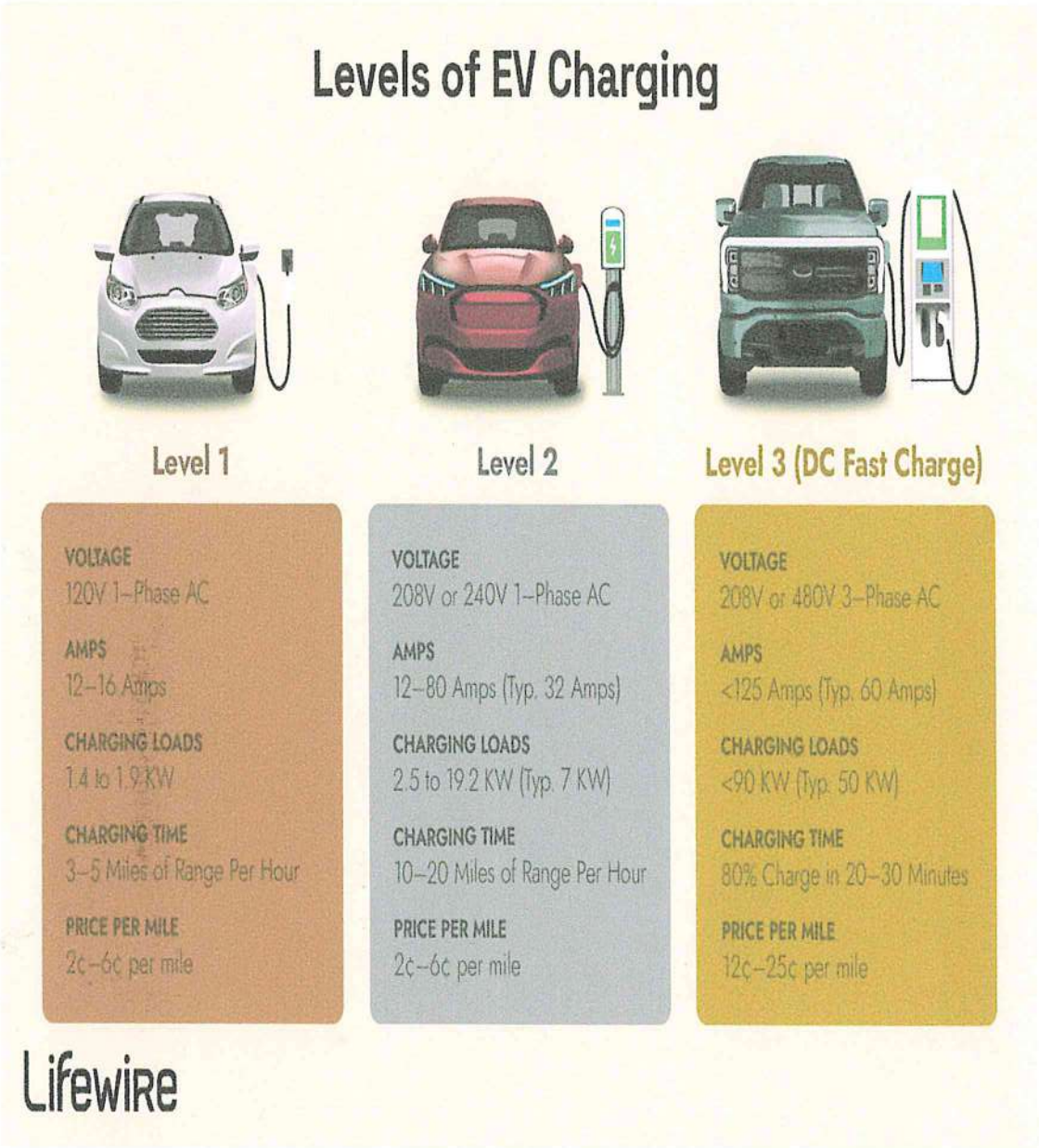

SOLAR POWERED EV CHARGING STATION:

- Charging stations can also be powered by solar energy.
- Number of solar panels can be placed on roof of charging station. This solar panel will deliver power to charging point.
- Use of solar will reduce load on power grid and will also save considerable amount of fossil fuel used in producing electricity

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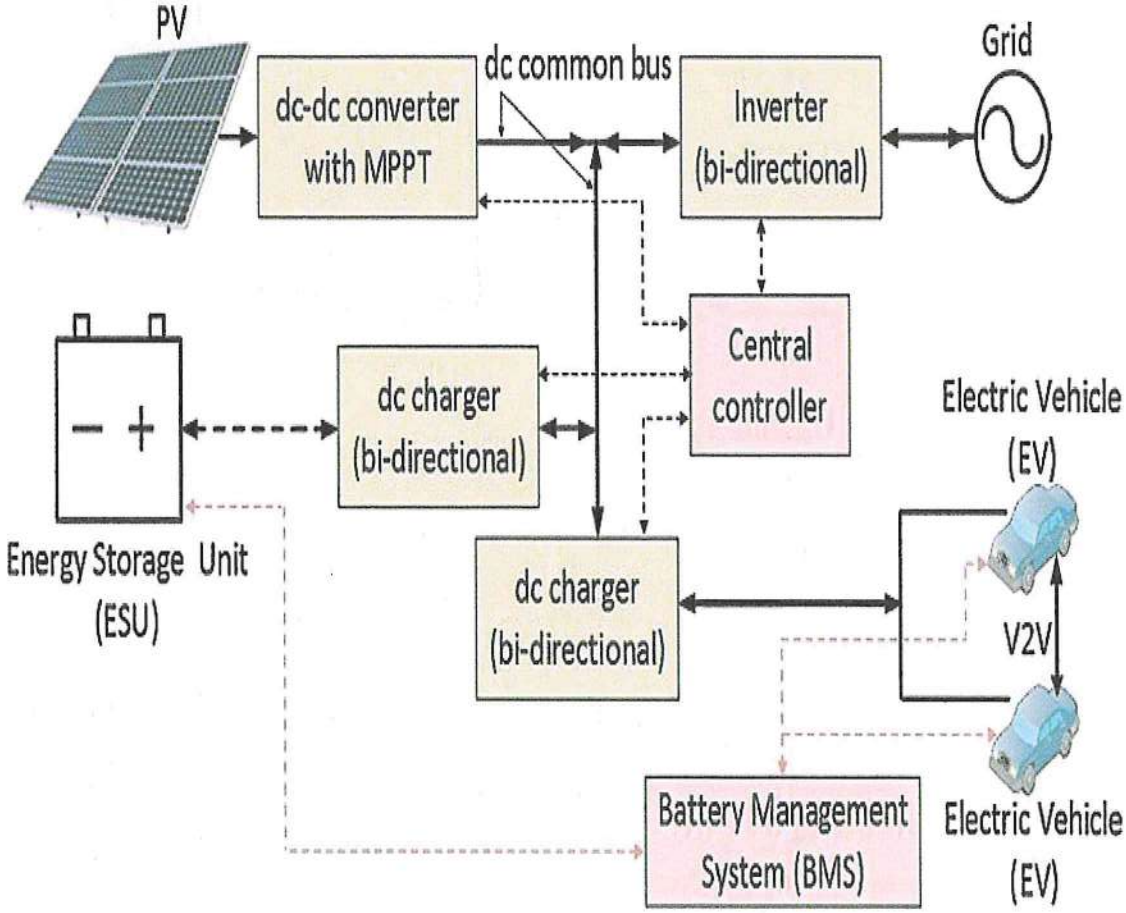

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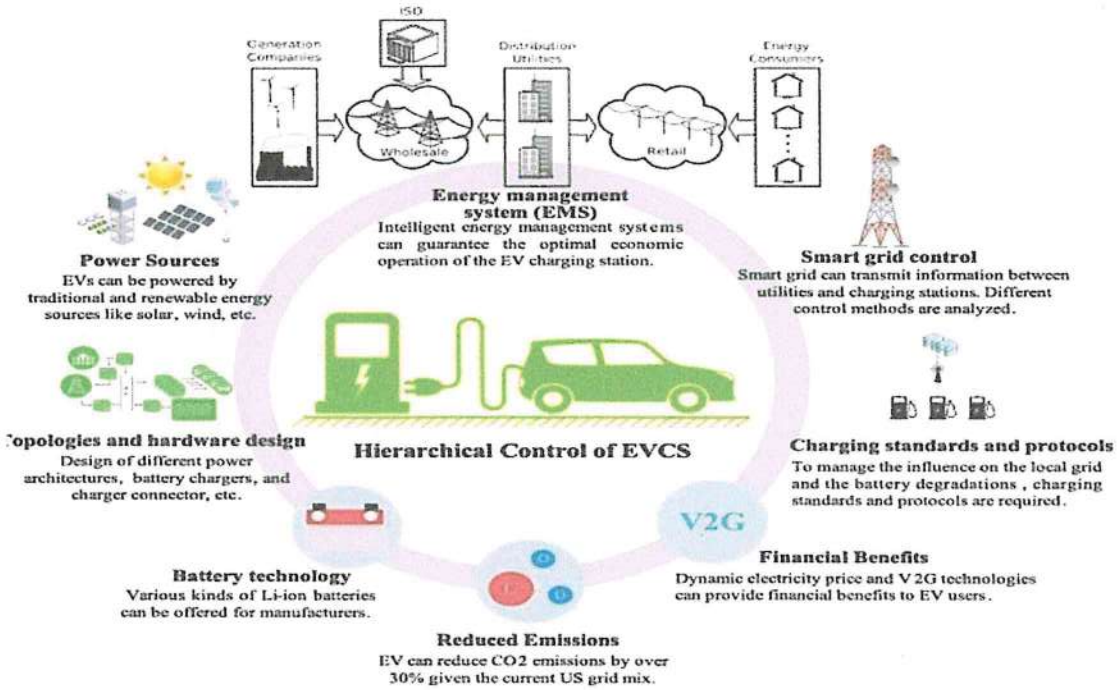
ADVANTAGES:



- Increase in number of charging station will boost the selling of EVs as their will be reduced range anxiety.
- It is always great for environment, if many Evs are being sold in country.
- This will boost direct and indirect employment in country.
- As India lack charging stations, it is good opportunity to young business aspirants to install charging station in their locality.

GOVERNMENT INITIATIVE:

Government of India to expand Public Electric Vehicle Charging Infrastructure across the nation.

Efforts by government results in 2.5 times increase in charging stations in 9 mega cities in last four months. Additional installation of 678 public EV charging stations between October 2021 to January 2022 in these 9 cities. Currently, 9 cities account for about 940 of India's 1640 public EV chargers 22,000 EV charging stations to be set up by Oil Marketing Companies across the country in prominent cities and highways.

For More Details: https://e-amrit.niti.gov.in/home

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Name and Sign of Coordinator (Faculty): Mr. Riyaj Kazi

Departmental Event Coordinator: _____ HoD: _____

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Date: 26/ 04/2023

Event Attendance

Academic Year: 2022-23 **T.E.-A** **Semester-II**

Name of Event: Educational Visit to EV Charging Station

Sr. No.	Name of the Participant	Signature
1.	Srushti Govind Rukme.	
2.	Anuja khumkar	A.A.khumkar.
3.	Atharva Ambekar	
4.	Hardik Hipparagi	
5	Ingale Omkar	
6	Subodh Dhoke	
7	mayur Bagal	
8.	Waghmare Shubham	
9	Raj Ranjan	
10	Aniket V. Sonwane	
11	Ajinkya Kamble	
12	Sanil Shinde	
13	Fahed. A. Shaikh	
14	Tejas sanjay Jadhav.	
15	Purnima Dhurwey	

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16	Chaturvedi Vaishnavi B.	Vaishnavi
17	Monali Jathi	Monali.
18	Chetana Patil	Chetana
19)	Deokar Viraj	VD
20)	Abhishek Deshpande	Abhi
21)	Punam Kondaocole	Punam
22)	Ankita A. Jadhav.	Ankita
23)	Vishwesh Rampure	Vishwesh
24)	Sumeet Bhopke	Sumeet
25)	Sahil Thorat	Sahil
26)	Gore Pranav	Pranav
27)	Vaishnavi Pabalkar	Vai
28)	Prajakta Chavan	Chavan
29)	Ashish Panda	Ashish
30)	Rohit Rana	RR
31)	Prince Singh	Singh
32)	Pranay Girde	
33)	Divya Salunke	Divya
34	Aishwarya Chavan	
35	Vaishnavi Patil	Vaishnavi
36	Gargi Sarolkar	gargi
37	Rutuja Shinde	
38	Vandana Pawane	Pawane
39	Bhakti Ghate	BG

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40	Sneha Shinde	Sneha...
41	Shinde Nutan [Roll.No 63]	Shinde
42.	Aditi Kate. [Roll no. 34]	Kate.
43.	Mayuri Sangawanshi [Roll no. 369]	
44	Dolse Nayatai [Roll No! 318]	

Name and Sign of Coordinator:

Departmental Event Coordinator: R.L. Kari

HoD:

HOD
E&TC Engineering
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Date: 26/ 04/2023

Event Attendance

Academic Year: 2022-23 **T.E.- B** **Semester-II**

Name of Event: Educational Visit to EV Charging Station

Sr. No.	Name of the Participant	Signature
1.	Hardik H. Chotalia.	
2.	Divya M. Panchmukh	
3.	Pawar Aditee	
4.	Vaibhavi S. Nimbalkar	
5.	Walzade Abhishek B.	
6.	Pratiksha Hasure	
7.	Gousmohammad Mansuri	
8.	Mhetre vinod Basappa	
9.	Ingale Vaishnavi Vijay	
10.	Bhairavanath. Thalkanavar	
11.	Maniyar Asif	
12	Ajay Mondal	
13	Suhas Jadhav	
14	Sujit Gaikwad	
15	Arshad Sayyad	Sayyad.A.P.

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16	Akash Dadarao Pawal	
17	Shivsai Sunil Panchal	
18	Deep Balaji Bamsode	
19	Anant Kumar	
20	Gayatri Jasud	
21	Vaishnavi J. More	
22	Sujal V. kamble	
23	Patil Kalyani	
24	MAYA Salalkar	
43	Rohini Mokashe	
26	Pratik. G. Jadar	
27.	Vaishnavi . D . Chature	
28.	Jadhav Abhishek Anil	
29	Kalje Omkar	
30.	Janhavi Dhanve.	
31.	Sonali Dhaygude	

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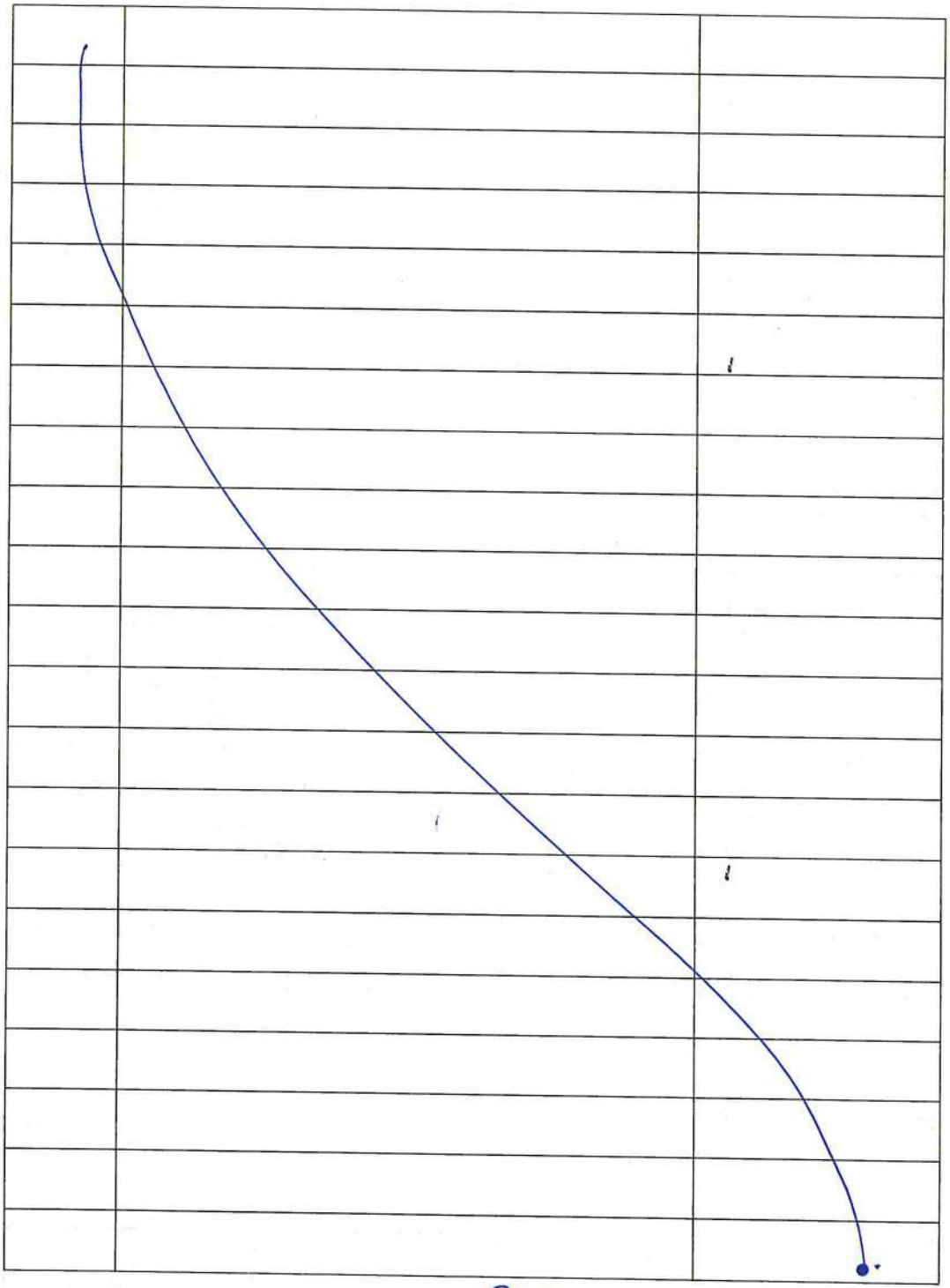

Name and Sign of Coordinator: _____

Departmental Event Coordinator: R-L Kazi

HoD: _____

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Department of E&TC Engineering

Form No. IQAC/24 (a)
Date: 26/04/2023

Event Permission

Academic Year: 2022-23 **Semester- II**

To

The Principal,

ADYPSOE, Pune

Subject: Request for permission to organize an Educational Visit to the Solar Power Plant at Dr. D Y Patil Knowledge City, as one of the activities under Best Practice-I (Competency-Based Learning)

Through: HoD (Dr. Sharan Inamdar)

Respected Sir,

Department of E&TC Engineering is planning an educational visit to Solar Power Plant at Dr. D Y Patil Knowledge City for TE(E&TC), A&B Division Students on Wednesday, 26/04/2023 at 10:15 AM. This visit is one of the best practices for the Subject "Power Devices & Circuits"

I request you permit me to organize this event.

Thanking You,

Yours Faithfully,

Name and Sign of Coordinator: R.L. Kan

Departmental Event Coordinator:

HoD: Sharan

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Ajeenkya DY Patil School of Engineering * E&TC Engineering * Lohegaon, Pune *

Principal:

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Event Notice

Academic Year: 2022-23 **Semester- II**

Name of the event: Educational Visit to Solar Power Plant

Date of the event :26/04/2023 Time: 10:00 AM

Venue :Dr D Y Patil Knowledge City- Solar Power Plant

All the students of T.E. A & B Division are hereby informed that Department of E&TC Engineering has scheduled an Educational Visit to Solar Power Plant at D Y Patil Knowledge City on 26/04/2023. This visit is a part of Best Practice-I: Competency Based Education for the subject: Power Devices & Circuits.

All Students are informed to gather in room no. 232 at 9:45 AM with uniform and ID Card.

Name and Sign of Coordinator: R.L.Kazi

Departmental Event Coordinator:

HoD:

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Date: 26/04/2023

Event Report

Academic Year: 2022-23 **Semester-II**

Name of the event: Educational Visit to Solar Power Plant

Date and Time	Wednesday, 26/04/23, 10:15 AM
Event Venue	Dr. D Y Patil Knowlegde City
Organized by	Department of E&TC
Targeted Audience	TE Students & Staff
Resource Person	Mr. Riyaj Kazi

Contents:

1. Introduction to Solar Power Plant
2. Observations on Solar power Plant
3. Details of daily power generation and utilization
4. Geotagged Photos

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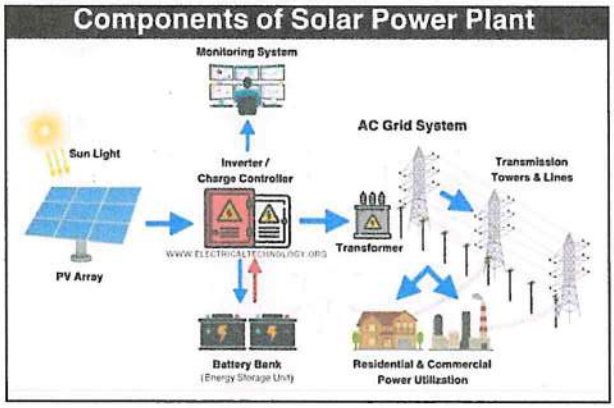
INTRODUCTION:

A solar power plant is based on the conversion of sunlight into electricity, either directly using photovoltaics (PV), or indirectly using concentrated solar power (CSP).

Solar energy is the radiation from the sun capable of producing heat, causing chemical reactions, or generating electricity. The total amount of solar energy incident on Earth is vastly in excess of the world's current and anticipated energy requirements. If suitably harnessed, this highly diffused source has the potential to satisfy all future energy needs. In the 21st century, solar energy is expected to become increasingly attractive as a renewable energy source because of its inexhaustible supply and its nonpolluting character, in stark contrast to the finite fossil fuels coal, petroleum, and natural gas. The main concern of a solar power plant is to provide complete energy independence while also lowering electricity costs.

BLOCK DIAGRAM:



PRINCIPLE:

The working principle is that we use the energy of photons to get the drift current flowing in the circuit using reversed bias p-n junction diode (p-type and n-type silicon combination). Thus, solar energy is converted to electrical energy by photovoltaic cells.

CONSTITUENTS:

1. Solar Panels

It is the heart of the solar power plant. Solar panels consists a number of solar cells. One panel consists of about 35 solar cells.

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2. Solar Cells (Photovoltaic cells)

It is the energy generating unit, made up of p-type and n-type silicon semiconductor that converts the solar energy into electrical energy.

3.. D.C. to A.C. Converter (Inverter)

Solar panels produce direct current which is required to be converted into alternating current to be supplied to homes or power grid.

4. Battery

Batteries are used to produce the power bank or store the excess energy produced during day, to be supplied during night. It is optional and sometimes not preferred due to its high maintenance costs.

5. Transformer

A solar panel transformer has to convert the DC voltage coming out of the photovoltaic systems and step it up to the rated output. Sometimes it is integrated with the inverter.

6. Monitoring system

The system uses data logger and similar other applications for an effective surveillance of power production and consumption.

7. A circuit breaker

A circuit breaker is an electrical switch designed to protect an electrical circuit from damage caused by overcurrent/overload or short circuit. Its basic function is to interrupt current flow after protective relays detect a fault.

SOLAR POWER PLANT FUNCTIONING:

A batch of third year students of Electronics and Telecommunications of Dr. Ajeenkya DY Patil School of Engineering with their pedagogue Mr. Riyaj Kazi commenced an educational visit to the solar power plant of the university for an explicit evaluation of the mechanism of the solar cells and an insightful comprehension of their consequential role towards sustainable development. The trip made a headway

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with 72 students and halted at the Solar Power plant in the parking sector wherein our mentor Mr Amol Sawant began a comprehensive elucidation of the solar panels.

The illustration covered the 8 unit solar power plant in the Technical Campus that accounts for about 630 kW of power generation per day enabling the university towards a self-reliance and self-sufficiency in perpetuating the cycle of power production and consumption. The project had initiated under the Kusum Yojna Scheme of the Government of India. The output of each panel is DC voltage which is combined together and further supplied to a 60 kW inverter that converts DC into AC . The solar plant is connected in series oriented in the North - South to get maximum solar energy. The efficiency can further be enhanced by removing the dust layer on the panel surface. The same is durable enough not to be damaged easily.

The solar power plant system in the campus doesn't use a storage battery on account of a heavy expenditure on its maintenance and replacement once in every 5 - 15 years of time slot. The power is recorded and tracked online via a data logger that keeps a précised record of everyday production and consumption of power. The online monitoring system also detects any malfunctioning of the system. The institute has the UPS system, which is an uninterrupted supply of energy. Solar panels are placed at the roof of the buildings of engineering schools, hostels and parking areas. The solar water heater is also placed on the hostel's roof.

DETAILS OF DAILY POWER GENERATION AND UTILIZATION:

The campus accounts for about 630 kW of power generation per day enabling the university towards a self-reliance and self-sufficiency in terms of energy conversation. The same saves about 6-8 lakhs of electricity bill per month. The power generated doesn't only compete with the exigencies of the campus but also produces an adequate amount of supplemental power that is further supplied to MSEB.

SOLAR POWER PLANT DOCUMENTATION:

The installation of the solar power panel was a joint venture of Renew Power Private Limited and Dr. DY Patil Group of Institutions with Solitis Electrical Solutions PVT LTD as the Electrical Contractor. The Company bore the initial cost of installation and infrastructure signing an agreement for a power supply to the company for the coming 15 years.

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However the project emerges as a boon for the university in terms of self-reliance and energy sufficiency saving about 6 - 8 lakhs of electricity bill on monthly basis.

Geotagged photos

Visit to Solar Power Plant, DYPSOE

Visit to Control Room

Roofs of the buildings of Engineering Schools and Hostels

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Discussion:- Components of Solar Power Plant: Capacity, Specifications & Technology

DC to AC Conversion- Inverter (60 KW)

Data Logger

Control Panel and monitoring system

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Gist of lessons ascertained during the educational visit :

1) We evaluated the structure and mechanism of the solar panels.

2) The visit also envisaged their consequential role towards the sustainable development by switching towards renewable and replenishable sources of energy in lieu of the conventional sources.

3) We analyzed the implementation, cost, maintenance and surveillance factors profoundly and were able to spot the advantages of being self reliant in power generation by the installation of solar panels.

4) The visit also helped us understand the joint venture between the corporate sector and the university for the installation of the solar power plant.

Name and Sign of Coordinator (Faculty): Mr. Riyaj Kazi

Departmental Event Coordinator: _____

HoD: _____

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Date: 26/ 04/2023

Event Attendance

Academic Year: 2022-23 **T.E.-A** **Semester-II**

Name of Event: Educational Visit to Solar Power Plant

Sr. No.	Name of the Participant	Signature
1.	Choutewar Vaishnavi Balaprasad	Vaishnavi
2.	Aishwarya Ashok Chavan	
3.	Vaishnvi Ashok Pati	Vaishnvi
4.	Gargi Sarolkar	Sarolkar
5.	Divya Yuvaraj Salunke	Divya.
6	Chetana Jaykumar Patil	
7	Pranay. Satyawan. Girde	
8	Vaishnavi Kiran Pabalkar	Vaish.
9	Prajakta Pratap Chavan	Pawar
10	Mayuri Satish Suryawanshi	
11	Fahed. Akil Shaikh	
12	Purnima Dhurwey	Purnima
13	Mayur Bagal	Bagal
14	Aditi Kate.	Akate.
15	Bhakti Chate.	Chate

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16	Rutuja Shinde.	
17	Vandna Pawne	
18	Nutan Shinde.	
19	Tejas Jadhav	
20	Atharva Ambekar	
21	Ajinkya kamble	
22	Sumeet Bhople	
23	Punam kondawale	
24.	Ankita Jadhav.	
25)	Gore Pranav	
26)	Thorat Sahil	
27)	Vishwesh Rampure	
28)	Soushti Rukme	
29)	Viraj Deokar	
30)	Anuja khumkar	A.A. khumkar
31)	Omkar Ingale	
32)	Shubham Waghmare	
33)	Monali Jathi	
34)	Ashish Panda	
35)	Rohit Rana	
36)	Prince Singh	
37)	Subodh Dhoke	
38)	Digvijay Manedeshmukh	
39	Pratik Rajput	

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40-	Jagtap Shravankumar	Jagtap

Name and Sign of Coordinator: Rajaj Kavi

Departmental Event Coordinator:

HoD:

HOD
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Department of E&TC Engineering

Form No. IQAC/28
Date: 26/ 04/2023

Event Attendance

Academic Year: 2022-23 **T.E.- B** **Semester-II**

Name of Event: Educational Visit to Solar Power Plant

Sr. No.	Name of the Participant	Signature
1.	Hardik · H · Chotalia	Hardik
2.	Shivsai . S. Panchal	
3.	Anant. Kumar	
4.	Pawar Aditee	
5.	Vaibhari Nimbalkar	Nimbalkar
6.	Divya. Panchmukh	
7.	Nikita Gangathade	NIKITA
8.	Vaishnavi Savargave	Vaishnavi
9.	Sushma Karke	Sushma.
10	Priyanka Jawale	Jawale
11	Vaishnavi J. More	Vaishnavi
12.	Sujal · V. kamble	Sujal
13.	pratik · G. sadar	SP
14	Vaishnavi D. chaturre	Sadhu
15	Akash D. Pawar	

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16.	Mhetre Vinod. B	
17.	Mansoori Gousmohammad	
18.	Janhavi Dhanve	
19.	Maniyar Asif	
20	Arshad P. Sayyad	Sayyad. A.P.
21	Bhairavanath. Bhimanna. T	
22	Sonali Dhaygude	
23	Pallavi Patil	
24	Adil dafedar	
25	Suhas Jadhav	
26	Walzade Abhishek B.	
18	Gauri More	
35	Aarish Khan	
44	Ajay Mondal	
19	Hasure Pratiksha	
58	AJAY . S. Rathod	
	Swarupanand S. Desai	
43	Rohini Mokashi	
04	Pratik Babar	
01	Ritish Adepu	
03	Vasishta Jagdhane	
26	Varad Jagdale	
16	Sujit Gaikwad	
31	Kohje Omkar	

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32	Sakshi Kamble	

Name and Sign of Coordinator: Riyaj Kazi

Departmental Event Coordinator:

HoD:

HOD
E&TC Engineering
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Dr. D. Y. Patil Group of Institutions' Technical Campus
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Department of E&TC Engineering

Form No. IQAC/30
Date: 10/05/2023

Event Report

Academic Year: 2022-23 **Semester-II**

Title of best practice: Competency-based Education & Assessment: Peer Learning on Advanced
Activity:- Participative Learning (Question bowl approach in the discussion)

Date and Time	Wednesday, 10/05/23, 10:30 AM
Event Venue	E&TC Department. Room No 232
Organized by	Department of E&TC
Targeted Audience	TE – A & B Students
Resource Person	TE Students: Ms. Chetna Patil, Mr. Hardik Chotalia, Ms. Vashnavi, Ms. Monali Jatti.

Topics:

1] Study of Power Devices

2] AC to DC Converter

3] DC to AC Converter

4] DC to DC Converters

5] Applications of Power Electronics

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In order to boost participative learning among students, one of the methods is to have a question bowl approach in the discussion.

The engagement of students to carry out this activity is essential because the students themselves learn different topics of the subject. They decide the questions to be asked along with solutions.

This activity leads to team building, group discussion, communication skills, and coordination. Participants get an opportunity to perform. This activity ensures edutainment.

In order to execute this activity; three coordinators among students were finalized as follows:

1] Ms. Chetana Patil
2] Tejas Jadhav
3] Choutewar Vaishnavi & Team

Entire class was divided into four teams:

A] Team-1: Half Circuit
B] Team-2: Short Circuit
C] Team-3: Full Circuit
D] Team-4: Open Circuit

The three team coordinators have prepared questions & answers and get it verified from faculty Mr. Riyaj Kazi.

Students prepared the question bowl & 40 Question chits.

The entire event is coordinated by the students.

The winners of this quiz are declared by Dr. Sharan Inamdar, HoD-E&TC.

Winner Team: FULL CIRCUIT (34 Marks)

Runner Up: OPEN CIRCUIT (32 Marks)

Enclosed:

1) Team Details
2) Attendance

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Geo- Tagged Photos:

Edutainment through question bowl approach in discussion & learning

Name and Sign of Coordinator (Faculty): Mr. Riyaj Kazi

Departmental Event Coordinator: _____ HoD: _____

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Ajeenkya DY Patil School of Engineering

Department of E&TC Engineering

Class: T.E. Div: A Semester: II Date: 10/05/2023

Subject: Power Devices & Circuits

Title of Best Practice: Competency based Education & Assessment

Activity Title: Participative Learning (Question bowl approach in the discussion)

ATTENDANCE

Sr. No.	Roll No	Name of Student	Sign
1	314	Chowtewar Vaishnavi B.	
2	369	Mayuri Suryavanshi	
3	345	chetana Patil	
4	367	Aniket V Sonwane	
5	333	Ajinkya Kamble.	
6	365	Shinde Sanil	
7	337	Punam Kondawale	
8	308	Someet Bhople	
9	306	mayur Bagal	
10	340	Digvijay Mane Deshmukh	
11	362	sameer shaikh	
12	364	Rutuja Shinde	
13	347	Vandana Pawane	
14	348	Aditi Kate.	
15	318	Dolse Gayatri	
16	363	shinde Nutan	
17	372	Thorat Sahil	
18	374	waghmare Shubham	
19	325	Ingale omkar	
20	322	gore pranav	
21	315	Deokar Vijoj	
22	354	Vishwesh Rampure	
23	327	Tejas Jadhav	
24	311	Bhakti chate.	

Subject Teacher
(Mr. Riyaj Kazi)

HoD
(Dr. Sharan Inamdar)
HOD
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Lohegaon, Pune

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Ajeenkya DY Patil School of Engineering

Department of E&TC Engineering

Class: T.E. Div: B Semester: II

Subject: Power Devices & Circuits Date: 10/05/2023

Title of Best Practice: Competency based Education and Assessment

Activity Title: Participative Learning (Question bowl approach in the discussion).

ATTENDANCE

Sr. No.	Roll No	Name of Student	Sign
1	56	Pratik Gajanan Sadar	
2	71	Vaishnavi J. More	Vaishnavi
13	59	Tushar D. Raut	
4	37	Anant Kumar	
5.	72	Vishakha Patil	Patil.
6.	39	Manish Shinde	Manish
7.	51	Pallavi Patil	Patil
8	57	Pratiksingh Rajput	Pratik.
9	14	Sonali Dhaygude	
10	~~Jr~~ 23	Jadhav Abhishek Anil	Jadhav A.A.
11.	10	Hardik .H. Chotaliq	Hardik
12	42	MHETRE VINOD BASAPPA	VM.
13	05	Deep Bansode	
14	44	Ajay Mondal	
15	63	Arshad P Sayyad	Sayyad A.P.
16	41	Gousmohammad Mansuri	
17	53	Akash Dadarao Pawar	
18	40	Maniyar Asif	
~~19~~	67	Bhairavnath.B. Thakkannavar	
20	70	Vaishnavi Tulshiram Savaegave	Vaishnavi
21	17	Nikita Gangathade	Nikita
22	69	Vaibhavi Nimbalkar	Nimbalkar
23	49	Divya Panchmukh	Divya
24	54	Aditee Pawar	Aditee
25	16	Sujit Gaikwad	Sujit
26	25	Suhas Jadhav	
27	58	AJAY S. Rathod	
~~28~~	~~Ritesh Ad~~		
28	01	Ritesh Adeup	
~~29~~	31	Kalje Omkar	Kalje
~~0130~~	~~01~~	~~Rithish~~	

Subject Teacher
(Mr. Riyaj Kazi)

HoD
(Dr. Sharan Inamdar)

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TEAM'S

marks – 11.

- TEAM-1

HAIF - CIRCUIT

(1) Hardik Chotalia 10(B).
2) Anant A. Kumar 37 (B)
3) Tushar D. Raut 59 (B)
4) Pratiksingh Rajput 57 [B]
5) Deep Bansode [B].
6) Nikita Gangathade (17) B
7) Vaishnavi Sdvoegave.

marks – 18

- TEAM-2

SHORT CIRCUIT

(1) Vishakha Patil 72 (B)
(2) Manish Shinde 39 (B)
3) Ajay Mondal 44 (B)
4) Arshad Sayyad 63 (B).
5) Gous Mansuri 41 (B)
6) MHETRE VINOD 42 (B)
7) Vaibhavi Nimbalkar 69 (B)
8) Divya Panchmukh 49 (B)
9) Aditee Pawar 54 (B)
10) Vandana Pawane 47 (A)
11) Rutuja Shinde 64 (A)
(12) Ajay Rathod 58 (B)
13) Sujit Gaikwad 16 (B)
14) Kochie Omkar 31 (B)

Coordinators. Div-(A)

- Chetana Patil – 345.
- Tejas Jadhav – 327
- Chouhwar Vaishnavi – 314

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M T W T F S S
Page No.:
Date:
YOUVA

TEAM - 3
macks - 34.
FULL - CIRCUIT

(1) sonali bhaygude 14 (B)
(2) Pallavi Patil 51 (B)
(3) Vaishnavi More 71 (B)
(4) Pratik Sadar 58 (B)
(5) Akash Pawar 53 (B)
(6) Asif maniyar 40 (B)
(7) Bhairavanath. T. 67 (B)
(8) Shinde Nutan 63 (A)
(9) Kate Aditi 34 (A)
(10) Thorat Sahil 72 (A)
(11) waghmare Shubham (74 (A)
(12) Pranav Gore 22 (A)
(13) Ingale Omkar 25 (A)
(14) Viraj Deokar 15 (A)
(15) Rampure Vishwesh 54 (A)
Ashish Jagdhane (03) (B)

TEAM - 4
macks - 30.
OPEN - CIRCUIT

i) Shinde sanil (365)
ii) Ajinkya Kamble (333)
iii) Digvijay mane deshmukh (340)
iv) Aniket sonawane (367)
v) mayuri suryawanshi (369)
vi) sameer Shaikh (362)
vii) Abhishek Jadhav (23) (A)
viii) Sumit Bhorale (308)
ix) Punam Kondwale (337)
x) mayur Bagal (306)
xi) Gayatri Dolse (318)
xii Bhakti chate (11) (A)
13) Bagal mayur 6 (A)

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Q1. Gate turn off tyristors.

Q2. 4 types of Converter.

Q3. Inverter, cycloconverter, chopper, rectifier

Q4. Its a control devices which include GTO SCR etc.

Q5. Silicon Control rectifier.

Q6. 3 terminals

Q7. Reverse recovery time.

Q8. DC and AC triggering.

Q9. GTO

Q10. false

Q11. minimum amount of current below which SCR turns off.

Q12. for equal voltage sharing in each thyristor

Q13. Series Configuration

Q14. T_2 Junction.

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Q.15 When we use an ~~AC~~ AC source and SCR gets turned off in negative half cycle without external and extra circuitry

Q16. When we use external circuitry to forcefully turn off the SCR.

Q17. false

Q18. IGBT

Q19. Delay time

Q20. Minimum amount of current over which the SCR turns on.

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a] What do you mean by Inverter?
→ Inverter its converts the Fixed or Variable D.C. power to A.C power.

b] 3φ Inverter having how many modes?
→ Six modes

c] In mode one which device of SCR will be on 180° 3φ inverter.
→ Q1, Q5, Q6

d] Which no. of devices conducting in one mode of 180° 3φ inverter
→ 3 devices.

e] difference of 180° or 120° of 3φ inverter
→ any one
In 180 each device conduct on 180° degree in 120° each device conducts 120°
3 devices on in 180° 2 device is conducting.

f] types of commutation
→ line or forced commutation.

g] Application of Inverter
→ Induction heating
Battery vehicle drives
Computer supplies
Automation system

h] In Half Bridge Inverter How many SCR or thiristor is used
→ two thiristor / SCR are used

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i] Full Bridge Inverter How many SCR will be used
→ the four SCR are used.

j] In Half Bridge Inverter No. of device Conducting Simultaneously
→ one device.

K] In Full Bridge Inverter which No. of device conducting Simultaneously
→ Two device.

l] the function of Rectifier
→ to convert the Ac to DC. power

m] define Firing Angle.
→ the firing Angle is the phase angle of the voltage at which an SCR is turned-ON.

n] No. of modes having SCR.
→ Reverse Blocking mode
Forward Blocking mode
forward Conduction mode

Ans→ o) 4 SCR and 4 diodes
Ans→ p) It uses SCR only except FD
Ans→ q) fixed ac to variable ac
Ans→ r) Ratio of time that a piece of equipment is in use to the total time that it could be in use.
Ans→ t) • Space vector mod^n, Pulse width mod^n, transient analysis of function transfer.
s] Quasi square wave with $\pm V_s/2$.

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Unit 3

s) Q What is the phase voltage of 120° mode of conduction for 3ϕ bridge invertor

→ Quasi square wave with ± $V_s/2$

Q What are the line voltages for 120° mode of conduction for 3ϕ bridge invertor.

→ Six step waveform ± V_s and ± $V_s/2$

r) Q What is device Utilizat^n factor.

→ Ratio of time that a piece of equipment is in use to the total time that it could be in use.

t) Q what are the methods of matrix converter control

→ • Space vector modulat^n
• Pulse width modulat^n
• ventur^i - analysis of function transfer

Q What do you mean by distortion factor

It gives the amt. of harmonic distortion that remains in a particular waveform after the harmonics of the waveform have been subjected to a second order attenuation.

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Dr. D. Y. PATIL SCHOOL OF ENGINEERING
Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105.
Department of E&TC Engineering

Form No. IQAC/30
Date: 04/05/2023

Event Report

Academic Year: 2022-23 **Semester-II**

Name of the event: Peer Learning on Advanced Topic:- **Electric Vehicle:-** Battery Management System, Safety and Maintenance of batteries: **Advanced Learner Activity.**

Date and Time	Monday, 19/04/23, 10:30 AM and 03/05/2023, 11:30 AM
Event Venue	E&TC Department. Room No 232
Organized by	Department of E&TC
Targeted Audience	TE – A & B Students
Resource Person	TE Students: Ms. Chetna Patil, Mr. Hardik Chotalia, Ms. Vashnavi, Ms. Monali Jatti.

Contents of Peer Learning:

1] Introduction of Battery Management System

2] Block Diagram of BMS

3] Designing a BMS

4] The functions of a BMS suitable for a hybrid electric vehicle.

5] Characteristics of Rechargeable Batteries

6] Maintenance of batteries

7] Precautionary Note

8] Geo-Tagged Photos

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INTRODUCTION:

Battery Management System is a component of a much more complex fast acting Energy Management System and must interface with other on board systems such as engine management, climate controls, communications and safety systems. To some it is simply Battery Monitoring, keeping a check on the key operational parameters during charging and discharging such as voltages and currents and the battery internal and ambient temperature. The monitoring circuits would normally provide inputs to protection devices which would generate alarms or disconnect the battery from the load or charger should any of the parameters become out of limits. For the power or plant engineer responsible for standby power who's battery is the last line of defense against a power blackout or a telecommunications network outage BMS means Battery Management Systems. Such systems encompass not only the monitoring and protection of the battery but also methods for keeping it ready to deliver full power when called upon and methods for prolonging its life. This includes everything from controlling the charging regime to planned maintenance.

BLOCK DIAGRAM:

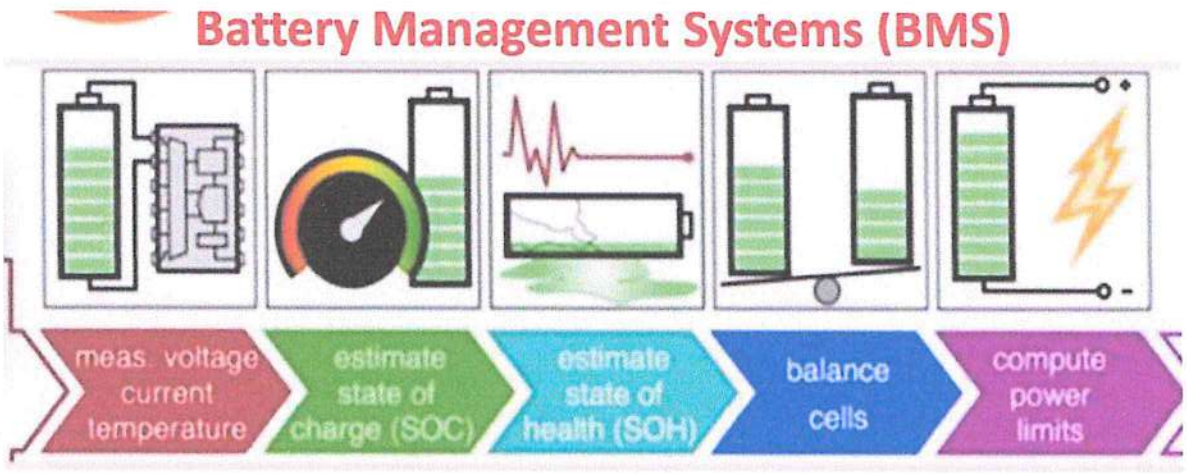

Fig. 1: General Block Diagram of BMS

BMS Building Blocks There are three main objectives common to all Battery Management Systems:

1] Protect the cells or the battery from damage

2] Prolong the life of the battery

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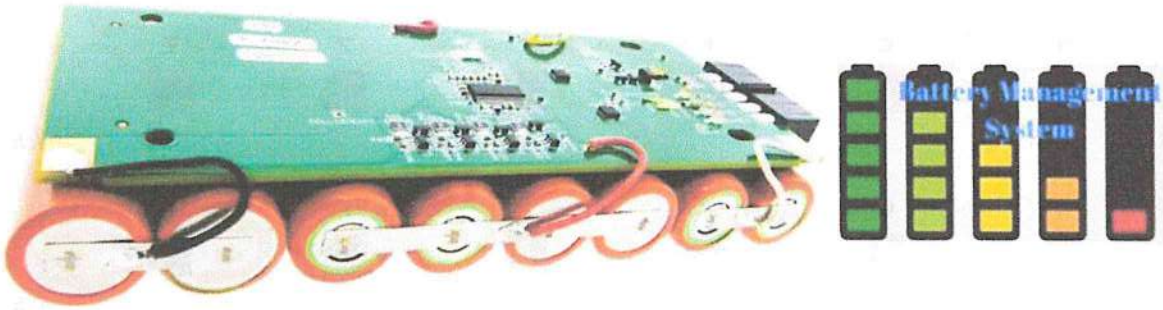
3] Maintain the battery in a state in which it can fulfill the functional requirements of the application for which it was specified.

Designing a BMS:



In order to control battery performance and safety it is necessary to understand what needs to be controlled and why it needs controlling. This requires an in depth understanding of the fundamental cell chemistries, performance characteristics and battery failure modes particularly Lithium battery failures.

BMS may incorporate one or more of the following functions Cell Protection Protecting the battery from out of tolerance operating conditions is fundamental to all BMS applications. In practice the BMS must provide full cell protection to cover almost any eventuality. Operating a battery outside of its specified design limits will inevitably lead to failure of the battery. Apart from the inconvenience, the cost of replacing the battery can be prohibitive. This is particularly true for high voltage and high power automotive batteries which must operate in hostile environments and which at the same time are subject to abuse by the user. Charge control This is an essential feature of BMS. More batteries are damaged by inappropriate charging than by any other cause. Demand Management While not directly related to the operation of the battery itself, demand management refers to the application in which the battery is used. Its objective is to minimize the current drain on the battery by designing power saving techniques into the applications circuitry and thus prolong the time between battery charges. SOC Determination

Many applications require a knowledge of the State of Charge (SOC) of the battery or of the individual cells in the battery chain. This may simply be for providing the user with an indication of the capacity left in the battery, or it could be needed in a control circuit to ensure optimum control of the charging process. SOH Determination The State of Health (SOH) is a measure of a battery's capability to deliver its specified output. This is vital for assessing the readiness of emergency power equipment and is an indicator of whether maintenance actions are needed. Cell Balancing In multi-cell battery chains small differences between cells due to production tolerances or operating conditions tend to be magnified with each charge / discharge cycle. Weaker cells become overstressed during charging causing them to become even weaker, until they eventually fail causing premature failure of the battery. Cell balancing is a way of

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compensating for weaker cells by equalising the charge on all the cells in the chain and thus extending battery life. History - (Log Book Function) Monitoring and storing the battery's history is another possible function of the BMS. This is needed in order to estimate the State of

Health of the battery, but also to determine whether it has been subject to abuse. Parameters such as number of cycles, maximum and minimum voltages and temperatures and maximum charging and discharging currents can be recorded for subsequent evaluation. This can be an important tool in assessing warranty claims. Authentication and Identification The BMS also allows the possibility to record information about the cell such as the manufacturer's type designation and the cell chemistry which can facilitate automatic testing and the batch or serial number and the date of manufacture which enables traceability in case of cell failures. Communications Most BMS systems incorporate some form of communications between the battery and the charger or test equipment. Some have links to other systems interfacing with the battery for monitoring its condition or its history. Communications interfaces are also needed to allow the user access to the battery for modifying the BMS control parameters or for diagnostics and test.

Automotive BMS Automotive battery management is much more demanding than the previous two examples. It has to interface with a number of other on board systems, it has to work in real time in rapidly changing charging and discharging conditions as the vehicle accelerates and brakes, and it has to work in a harsh and uncontrolled environment. This example describes a complex system as an illustration of what is possible, however not all applications will require all the functions shown here.

The functions of a BMS suitable for a hybrid electric vehicle are as follows:

1] Monitoring the conditions of individual cells which make up the battery

2] Maintaining all the cells within their operating limits

3] Protecting the cells from out of tolerance conditions

4] Providing a "Fail Safe" mechanism in case of uncontrolled conditions, loss of communications or abuse

5] Isolating the battery in cases of emergency

6] Compensating for any imbalances in cell parameters within the battery chain

7] Setting the battery operating point to allow regenerative braking charges to be absorbed without overcharging the battery.

8] Providing information on the State of Charge (SOC) of the battery. This function is often referred to as the "Fuel Gauge" or "Gas Gauge "

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9] Providing information on the State of Health (SOH) of the battery. This measurement gives an indication of the condition of a used battery relative to a new battery.

10] Providing information for driver displays and alarms

11]Predicting the range possible with the remaining charge in the battery (Only EVs require this)
12]Accepting and implementing control instructions from related vehicle systems

13]Providing the optimum charging algorithm for charging the cells

14] Providing pre-charging to allow load impedance testing before switch on and two stage charging to limit inrush currents

15]Providing means of access for charging individual cells

16]Responding to changes in the vehicle operating mode

17]Recording battery usage and abuse. (The frequency, magnitude and duration of out of tolerance conditions) Known as the Log Book function

18]Emergency "Limp Home Mode" in case of cell failure.

In practical systems the BMS can thus incorporate more vehicle functions than simply managing the battery. It can determine the vehicle's desired operating mode, whether it is accelerating, braking, idling or stopped, and implement the associated electrical power management actions. Cell Protection One of the prime functions of the Battery Management System is to provide the necessary monitoring and control to protect the cells from out of tolerance ambient or operating conditions. This is of particular importance in automotive applications because of the harsh working environment. As well as individual cell protection the automotive system must be designed to respond to external fault conditions by isolating the battery as well as addressing the cause of the fault. For example cooling fans can be turned on if the battery overheats. If the overheating becomes excessive then the battery can be disconnected. Battery State of Charge (SOC) Determining the State of Charge (SOC) of the battery is the second major function of the BMS. The SOC is needed not just for providing the Fuel Gauge indication.

The BMS monitors and calculates the SOC of each individual cell in the battery to check for uniform charge in all of the cells in order to verify that individual cells do not become overstressed. The SOC indication is also used to determine the end of the charging and discharging cycles. Over-charging and over-discharging are two of the prime causes of battery failure and the BMS must maintain the cells within the desired DOD operating limits. Hybrid vehicle batteries require both high power charge capabilities for regenerative braking and high power discharge capabilities for launch assist or boost. For this reason, their batteries must be

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maintained at a SOC that can discharge the required power but still have enough headroom to accept the necessary regenerative power.

Characteristics of rechargeable batteries:

- A cell is an electro-chemical device capable of supplying the energy that results from an internal chemical reaction to an external electric circuit.

- A battery is composed of one or more cells, either parallel or series connected to obtain required current/voltage capability (batteries comprised of series connected cells are by far the most common).

- ESR (Equivalent Series Resistance) is the internal resistance present in any cell that

- limits the amount of peak current it can deliver.

- The Amp-hour capacity of a battery (or cell) is its most important figure of merit: it is defined as the amount of current that a battery can deliver for 1 hour before the battery voltage reaches the end-of-life point.

- The "c" rate is a current that is numerically equal to the A-hr rating of the cell. Charge and discharge currents are typically expressed in fractions or multiples of the c rate.

- The MPV (mid-point voltage) is the nominal voltage of the cell, and is the voltage that is measured when the battery has discharged 50% of its total energy.

- The measured cell voltage at the end of its operating life is called the EODV, which stands for End of Discharge Voltage (some manufacturers refer to this as EOL or End of Life voltage).

- The gravimetric energy density of a battery is a measure of how much energy a battery contains in comparison to its weight.

- The volumetric energy density of a battery is a measure of how much energy a battery contains in comparison to its volume.

- A constant-voltage charger is a circuit that recharges a battery by sourcing only enough current to force the battery voltage to a fixed value.

- A constant-current charger is a circuit that charges a battery by sourcing a fixed current into the battery, regardless of battery voltage.

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Maintenance of batteries:

Battery service and maintenance are critical to UPS reliability. A gradual decrease in battery life can be monitored and evaluated through voltage checks, load testing or monitoring. Periodic preventive maintenance extends battery string life by preventing loose connections, removing corrosion and identifying bad batteries before they can affect the rest of the string.

What can go wrong with batteries?

Condition	Cause
Plate separation	Repeated cycling (charging and discharging), damage during handling and shipping, and overcharging
Grid corrosion	Normal aging, operating in an acidic environment and high temperatures
Internal short circuit	Heat (plates expand causing shorts), separator failure, handling and shipping, and grid corrosion
External short circuit	Human error (shorting terminals) and leaks
Sulfation of plates	Sitting discharged for an extended period, not on charge or being undercharged, such as battery shelf life being exceeded past manufacturer's guidelines
Excessive gassing	Often due to high temperatures or overcharging; electrolyte volume is decreased
Drying out	Excessive gassing, high temperatures or overcharging, resulting in too little electrolyte for battery to function and provide full backup time

Precautionary Note:

- Do not charge by higher current or higher voltage than specified. Doing so may generate gas inside the battery, resulting in swelling, fire, heat generation or bursting.
- Do not heat, disassemble, nor dispose of in fire. Doing so damages the insulation materials and may cause fire, heat generation, leakage or bursting.
- Do not solder directly to the battery. If soldering is performed directly to the battery, the battery is heated up, consequently causing leakage, explosion or fire due to overheating from internal short-circuit.
- Do not short. If the (+) and (-) come into contact with metal materials, short-circuit occurs. As a result, fire, heat generation, leakage or bursting may occur.

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• Keep batteries out of the reach of children. It is dangerous if children swallow the battery. Keep batteries which are considered swallow able out of the reach of children. When designing mechanical hardware around the battery, make sure that the battery cannot be removed by children. Swallowing may lead to burns, perforation of soft tissue, and death. Severe burns can occur within 2 hours of ingestion. In case of ingestion of a battery, seek medical attention immediately.

• Do not reverse placement of (+) and (-). If the (+) and (-) side of the battery is reverse inserted, it may cause a short-circuit or over discharge of the battery on some equipment and it may induce overheating, explosion or fire.

• Do not discharge by force. If the battery is discharged by direct connection to an external power supply etc., voltage of the battery will decline lower than 0 volt (electrical reversal) and will cause the battery case to expand, overheat, leak, explode or burn.

• In case of leakage or a strange smell, keep away from fire to prevent ignition of any leaked electrolyte.

• Do not weld terminals to the battery. The heat by welding may cause fire, heat generation, leakage or bursting. We weld standard terminals under strictly controlled conditions. If you need to weld terminals to the battery, please consult us in advance.

• In case of disposal, insulate between (+) and (-) of battery by an insulating material. Jumbling batteries or with other metal materials cause short-circuit. As a result, fire, heat generation, leakage or bursting may occur.

For More Details:

https://batteryuniversity.com/

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Geo- Tagged Photos:

Advanced Topic Discussion among students of different learning Level

Students peer learning activity on Electric Vehicle: BMS, Safety and Maintenance.

Name and Sign of Coordinator (Faculty): Mr. Riyaj Kazi

Departmental Event Coordinator: _____

HoD: _____

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Dr. D.Y Patil School of Engg., Lohegaon

9

Ajeenkya DY Patil School of Engineering

Department of E&TC Engineering

Class: T.E. Div: A Semester: II

Subject: Power Devices & Circuits

Title of Best Practice: Peer Learning on Advanced Topic.

Activity Title: EV- Battery management system, Safety and maintenance.

ATTENDANCE

Sr. No.	Roll No	Name of Student	Sign
1	374	Waghmare Shubham	
2	315	Deokar Viraj	
3	357	Srashti Rukme	
4	336	Anuja Khumkar	A.A.khumkar
5	306	Mayur Bagal	
6	365	Shinde Sanil	
7	333	Ajinkya Kamble	
8	330	Hamid Jalgaonkar	
9	327	Tejas Jadhav	
10	352	Purnima Dhurwey	
11	314	Chowtaiar Vaishnavi	
12	324	Hardik Hipparagi	
13	349	Prince Singh	
14	350	Priyotkarsh Dwivedi	
15	356	Rohit Rana	
16	353	Raj Ranjan	
17	305	Ashish Panda	

Subject Teacher
(Mr. Rivaj Kazi)

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HoD
(Dr. Sharan Inamdar)

Ajeenkya DY Patil School of Engineering

Department of E&TC Engineering

Class: T.E. Div: B Semester: II

Subject: Power Devices & Circuits

Title of Best Practice: Peer Learning on Advanced Topic

Activity Title: E.V. - Battery Management System, safety and maintenance

ATTENDANCE

Sr. No.	Roll No	Name of Student	Sign
1.	10	Hardik H. Chotalia	Hardik
2.	47	Pallavi P. Sable	Pallavi
3.	14	Sonali Dhaygude.	
4.	57	Pratiksingh Rajput	Pratik.
5.	19	Hasure Pratiksha	Hazure
6.	51	Pallavi Patil	Patil
7.	31	Kalje Omkar	
8.	16	Sujit Gaikwad	Sujit
9.	13	Janhavi Dhanve	
10.	34	Sushma Karke	Sushma.
11.	66	Kiran Takale	
12.	29	Priyanka Jawale	Pjawale
13.	64	Sushma Supekar	
14.	54	Aditee R. Pawar	
15.	69.	Vaibhavi Nimbalkar	Nimbalkar
16.	49.	Divya Panchmukh	Divya
17.	68	Kiran UPASE	
18.	8	Vaishnavi Chaitare	
19.	56	Pratik Sadar	
20.	73	Walzade Abhishek B	
21.	25	Suhas Jadhav	
22.	43	Rohini Mokashe	
23.	004	[illegible]	
23.	59	Tushar D. Raut	
24.	37	Anant Kumar	
25	48	Shivsai Panchal	
26	21	Ingale Vaishnavi	
27	12	Swarupanand Desai	

Subject Teacher
(Mr. Riyaj Kazi)

HoD
(Dr. Sharan Inamdar)

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Best Practice-II

Bridging the Gap between Education & Employment through Industry Connect

Sr. No	Activity Title
1	Tending Area: Role of Power Electronics in EV Technology

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Department of E&TC Engineering

Form No. IQAC/30
Date: 13/05/2023

Event Report

Academic Year: 2022-23 **Semester-II**

Title of best practice II (2): Bridging the Gap between Education and Employment through Industry Connect

Activity:- Power Electronics in Electric Vehicle

Date and Time	Wednesday, 13/05/2023, 11:00 AM
Event Venue	E&TC Department. Room No 232
Organized by	Department of E&TC
Targeted Audience	TE – A & B Students
Resource Person	Mr.Riyaj Kazi

Topic: Role of Power Electronics in EV Technology

1] Electric Vehicle History & Advantages.

2] Components of Electric Vehicle

3] Types & Benefits of EV

4] Comparison of EVs

5] Configurations of EVs

6] Impact of EV on Grid: Negative & Positive

7] Vehicle to Grid Technology

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What are Electric Vehicles

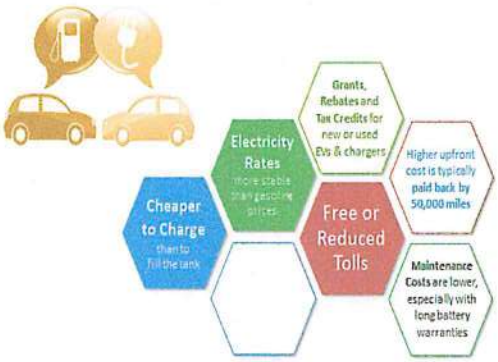
GAA ADVISORY

An Electric Vehicle is a vehicle that operates on an electric motor, instead of an internal combustion engine that generates power by burning a mix of fuel and gases. Electric vehicle is seen as a possible replacement for the current-generation automobile in near future to address environmental challenges.

- **Inspired by road going automobiles powered by electricity.**
- **Propelled by one electric motor or more using batteries.**
- **Electric motors give instant torque, and smooth acceleration.**
- **Plug-in electric vehicles (EVs) are fast, fun and efficient. Maintenance is simpler and cheaper.**

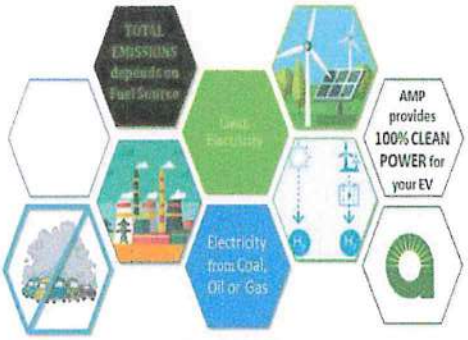
03

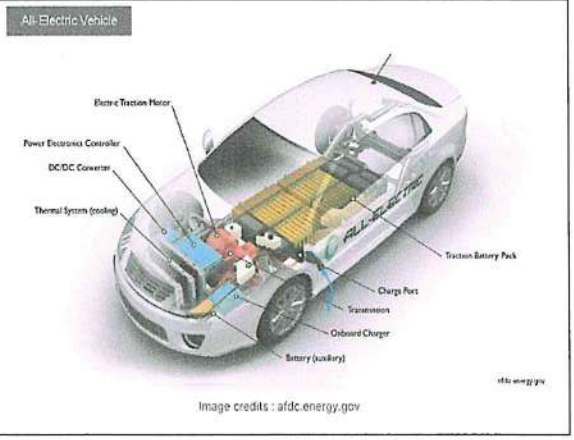
Lower Lifetime Cost



Lower Maintenance...

Lower Emissions





2

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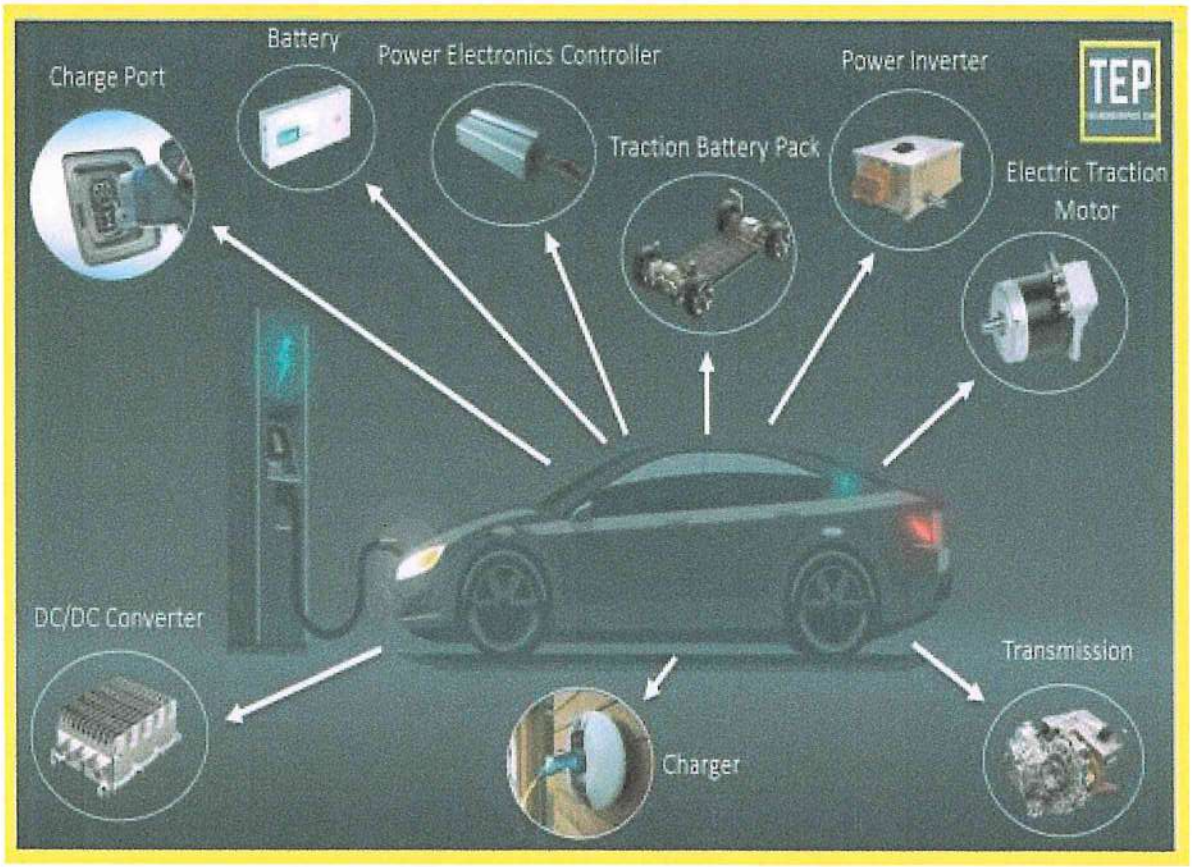
Components of Electric Vehicle

Electric vehicles consists of an electric motor that is powered by a battery pack. The main advantage of electric vehicles is that they emit zero emissions and are eco-friendly. They also do not consume any fossil fuels, hence use a sustainable form of energy for powering the car. The main components of electric vehicles are :

Traction battery pack
DC-DC Converter
Electric motor
Power inverter
Charge Port
Onboard charger
Controller
Auxiliary batteries
Thermal system (cooling)
Transmission



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Types of EVs

There are four types of electric vehicles (EVs) available:

Battery Electric Vehicle (BEV): Fully powered by electricity. These are the more efficient compared to hybrid and plug-in hybrids.

Hybrid Electric Vehicle:

Hybrid Electric Vehicle (HEV): The vehicle uses both, the internal combustion (usually petrol) engine, and the battery powered motor powertrain. The petrol engine is used both to drive and charge when the battery is drained. These vehicles are not as efficient as fully electric or plug in hybrid vehicles.

Plug-in Hybrid Electric Vehicle (PHEV): Uses both an internal combustion engine and a battery charged from an external socket (they have a plug). This means the vehicle's battery can be charged with electricity rather than the engine. PHEVs are more efficient than HEVs but less efficient than BEVs.

Fuel Cell Electric Vehicle (FCEV): Electrical energy is produced from fuel cell stacks which converts hydrogen to electricity.

Benefits of EV

1] Low Running Cost
2] Low Maintenance Cost
3] Zero Tailpipe Emission
4] Tax & Financial Benefits
5] Petrol & Diesel use is destroying our planet
6] Electric Vehicles are easy to drive & quiet
7] Convenience of Charging at home
8] No Noise Pollution

Source: https://e-amrit.niti.gov.in/benefits-of-electric-vehicles

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Comparison of Electric Vehicles

COMPARISON

GQ. 5.7.1 *Distinguish between the various types of Electric Vehicle.*

Sr. No.	Component	(Electric Vehicle)	(Hybrid Electric Vehicle)	(Plug-in Hybrid Vehicle)	(Mild Hybrid Vehicle)
1.	IC engine	Not Required	Required	Required	Required
2.	Electric Motor	Not Required	Required	Required	Required
3.	Battery Charging	It required only electric drive	The batteries get charged by the engine	The batteries can be charged from an external source (plug)	Turns off the engine and switches to motor when coasting, braking and restarting quickly.
4.	Battery Size	Large upto 20-80 kWh	Medium upto6-12 kWh	Medium upto 6-12 kWh.	Cannot be solely driven on electric motor
5.	Example	Tesla Model S	Honda Civic Hybrid	BMW i-8	Chevrolet Silverado Hybrid

Configurations of EV

Based on drive arrangements

1] EV with a Clutch
2] EV without a Clutch
3] Single Motor Drive
4] Multiple Motor Drive
5] In wheel Drive
6] In wheel wireless drive
7] Fixed Gearing Transmission
8] Variable Gearing Transmission

Based on power source configurations

1] Simple Battery Power Configuration (Battery connected to motor through a power converter)
2] Two Batteries and Power Converter: One battery is optimized for high specific energy and the other for high specific power.
3] Fuel Cell based power source
4] Hydrogen (Generated on board using liquid fuels such as methanol)
5] Battery & Super capacitor combination

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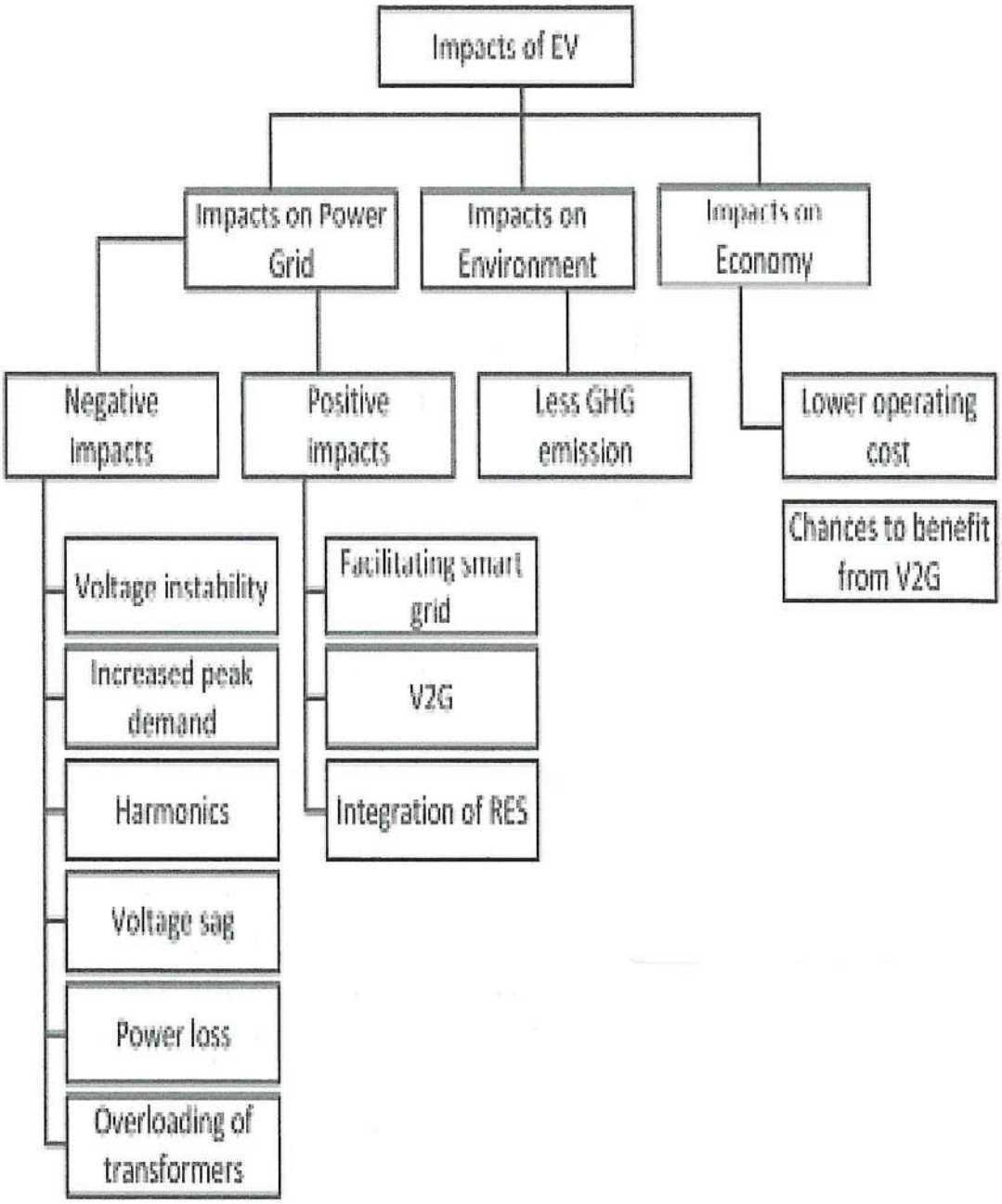
Impact of EV on Grid



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Positive Impact

Smart grid: In the smart grid system, intelligent communication and decision making is incorporated with the grid architecture . In such a system, the much coveted coordinated charging is easily achievable as interaction with the grid system becomes very much convenient even from the user end. The interaction of Evsand smart grid can facilitate opportunities like V2Gand better integration of renewable energy.

V2G: V2G or vehicle to grid is a method where the EV can provide power to the grid. In this system, the vehicles act as loads when they are drawing energy, and then can become dynamic energy storages by feeding back the energy to the grid. In coordinated charging, the EV loads are applied in the valley points of the load curve, in V2G, EVs can act as power sources to provide during peak hours. V2G is realizable with the smart grid system.

Integration of renewable energy sources: Renewable energy usage becomes more promising with EVs integrated into the picture. EV owners can use RESto generate power locally to charge their EVs Parking lot roofs have high potential for the placement of PV panels which can charge the vehicles parked underneath as well assupplying the grid in case of excessgeneration thus serving the increase of commercial RESdeployment.

Negative Impact

Voltage instability : EV loads have nonlinear characteristics, which are different than the general industrial or domestic loads, and draw large quantities power in a short time period. their power consumptions stay unpredictable; addition of a lot of EVsat a time therefore can lead to violation of distribution constraints. To anticipate these loads properly, appropriate modeling methods are required.

Harmonics: The EV charger characteristics, being nonlinear, gives raise high frequency components of current and voltage, known as harmonics. Harmonics distort the voltage and current waveforms, thus can reduce the power quality.

Voltage sag: A decrease in the RMS value of voltage for half a cycle or 1 min is denoted as voltage sag. It can be caused by overload or during the starting of electric machines. with an EV charger and a power converter in stated 20% EV penetration can exceed the voltage sag limit

Power loss: The extra loss of power caused by EV charging can be formulated as:

PLE = PLEV – PL original

Power quality degradation: The increased amount of harmonics and imbalance in voltage will degrade the power quality in case of massive scale EV penetration to the grid .

Overloading of transformers: EV charging directly affects the distribution transformers . The extra heat generated by EV loads can lead to increased aging rate of the transformers, but it also depends on the ambient temperature.

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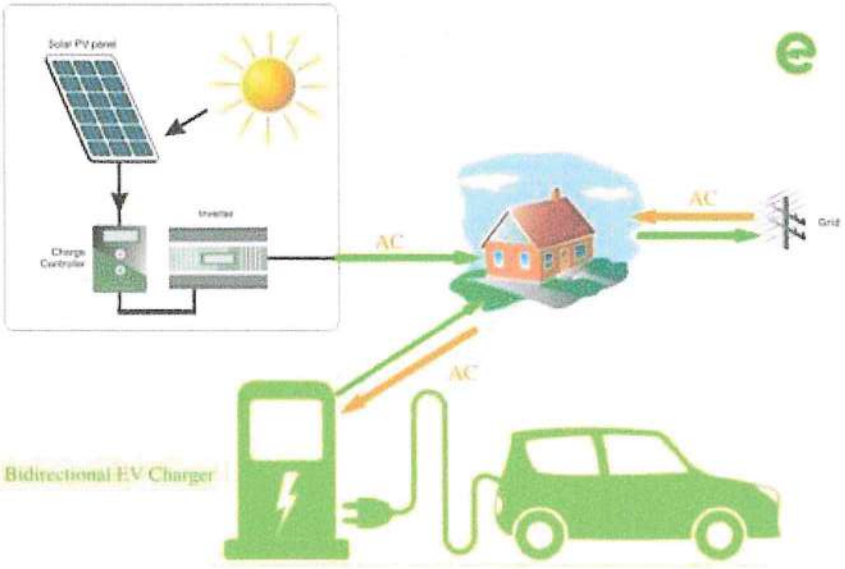
Vehicle to Grid Technology



Vehicle to Grid Technology

- Vehicle to grid' technology, also referred to as 'V2G' enables energy stored in electric vehicles to be fed back into the national electricity network (or 'grid') to help supply energy at times of peakdemand.
- This game-changing tech is about far more than potentially making EV owners money, it also plays an important part in helping to 'balance' the national electricity network
- Eachvehicle must have following required elements forV2G

1] Precision metering on-board thevehicle

2] It would require a network of public charging stations capable of bi-directional power transfer, each station incorporating an inverter with precisely controlled voltage and frequency output to feed the energy back into the grid.

3] It would also require the support of a massive communications network to manage the distributed power flows, the billing and feed-in buy back transactions.

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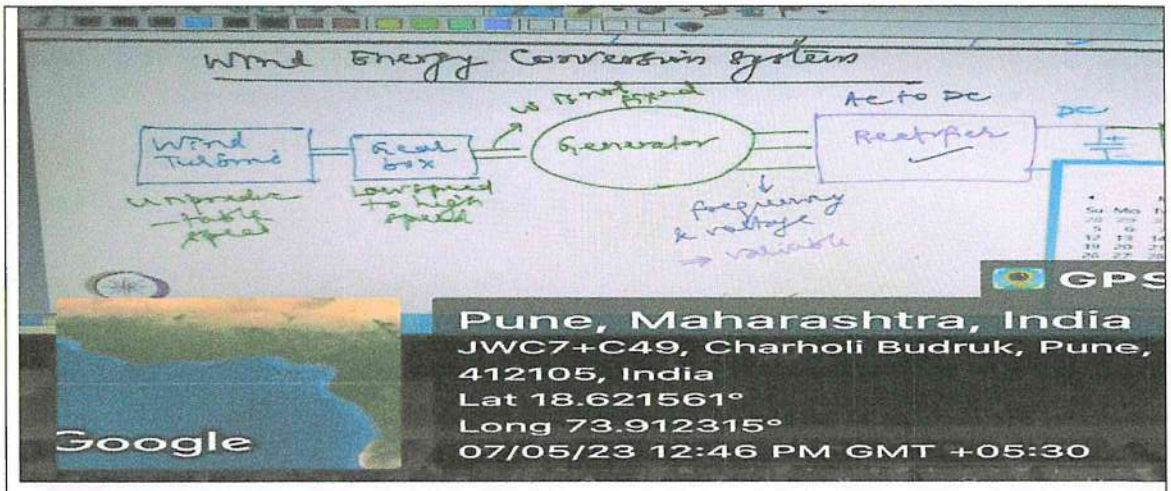

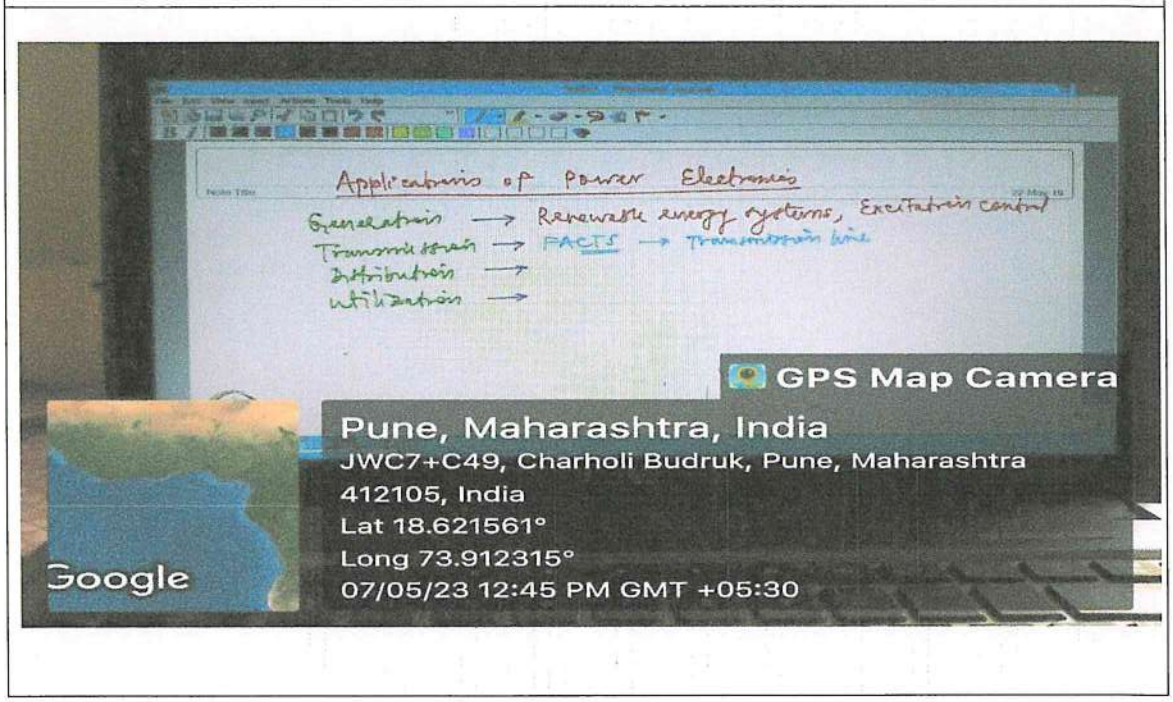

Name and Sign of Coordinator (Faculty): Mr. Riyaj Kazi

Departmental Event Coordinator: _____

HoD: _____

HOD
E&TC Engineering
Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

Ajeenkya DY Patil School of Engineering
E &TC Engineering
Lohegaon, Pune

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Lohegaon, Pune

Ajeenkya DY Patil School of Engineering

Department of E&TC Engineering

Class: T.E. Div: A Semester: II Date: 07/05/2023 & 13/05/2023

Subject: Power Devices & Circuits

Title of Best Practice: Bridging the Gap between Education & Employment

Activity Title: Discussion on 'Role of Power Electronics in Electric Vehicles.

ATTENDANCE

Sr. No.	Roll No	Name of Student	Sign
1.	314	Choutewar Vaishnavi B.	Vaishnavi
2.	311	Chate Bhakti Tukaram	Bhakti
3.	317	Divya Yuvaraj Salunke	Divya.
4.	366	Sneha ADOSONED Shinde A	Sneha
5.	357	Srushti Govind Rukme	Srushti.
6	364	Rutuja Shinde	
7	330	Hamid Jalgaonkar	
8.	363	Shinde Nutan	Shinde
9.	362	Shaikh Sameer. Khajamiya	
10	301	Manali Nandalal Jatti	Manali
11	334	Aditi Namdev Kate.	Kate.
12	347	Pawane Vandana Vijay	Pawane VV
13	306	mayur Hanumant Bagal	Bagal
14	326	Ankita A. Jadhav	Aj
15	339	Ankita S. Mali.	Mali
16	331	Pooja Kadam	Kadam
17	328	Jadhav Vaibhav	Jadhav
18	336	Anuja Khumkar	A.A.Khumkar
19	342	Omkar Kalbhor	Omkar
20	315	Deokar Viraj	
21	354	Vishwesh Pampare	Vishwesh.
22	372	Sahil Thomat	
23	374	Waghmare Shubham	Shubham
24	361	Faked Shaikh	
25	303	Atharva Ambekar	Atharva
26	353	Raj Ranjan	Raj Ranjan
27	351	Ashutosh Pant	
28	350	Priyotkarsh Dwivedi	
29	318	Dolse Trayati	
30.	320	Shambhavi ghegade	Shambhavi
31	346	Vaishnavi Patil	Vaishnavi
32	321	Pranay Girde	

Subject Teacher
(Mr. Riyaj Kazi)

HoD
(Dr. Sharan Inamdar)

Principal
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Department of E&TC Engineering

Date: 07/05/2023 & 13/05/2023

Class: T.E. Div: B Semester: II

Subject: Power Devices & Circuits

Title of Best Practice: Bridging the Gap between Education & Employment through Industry Connect.

Activity Title: Discussion on "Power Electronics in Electric Vehicles"

ATTENDANCE

Sr. No.	Roll No	Name of Student	Sign
1.	72	Vishakha A. Patil	Patil
2.	44	Ajay A. Mondal	
3.	05	Deep B. Bansode	
4	09	Shubham Chikane	
5	25	Suhas Jadhav	Jadhav
6	65	Swami Rutuja V	Rutuja
7	57	Pratiksingh Rajput	
8	19	Hasure Pratiksha	Hasure
9	17	Nikita Gangathade	Nikita
10	70	Vaishnavi Savaegave	Vaishnavi
11	40	Maniyar Asif	
12	67	Bhairavnath Thalkannavar	
13	41	Mansuri Gousmohammad	
14	63	Sayyad Arshad Paigambar	Sayyad A.P.
15	42	MHETRE VINOD BASAPPA	
16	53	Akash Dadarao Pawar	
17	21	Vaishnavi Vijay Ingale	
18	68	Kiran G. Upase	
19	31	Kalje Omkar	
20	54	Pawar Aditee	
21	71	Vaishnavi T. More	
22	33	Sujal V. Kamble	Sujal
23	46	Omkar Babu Seshadri	
24	10	Hardik Chotalia	
25	56	Pratik Sagar	
26	14	Sonali Dhaygude	
27	49	Divya Panchmukh	
28	37	Anant Kumar	
29	28	Gayatri Jasud	
30	61	Adya Ravindra Salakar	
31	50	Kalyani Patil	
32	13	Dhanve Janhavi	

Subject Teacher
(Mr. Riyaj Kazi)

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HoD
(Dr. Sharan Inamdar)

Ajeenkya DY Patil School of Engineering

Department of E&TC Engineering

Class: T.E. Div: B Semester: II Date: 07/05/23 & 13/05/23

Subject: Power Devices & Circuits

Title of Best Practice: Bridging the Gap between Education & Employment

Activity Title: Discussin on Role of Power Electronics in Electric Vehicles.

ATTENDANCE

Sr. No.	Roll No	Name of Student	Sign
35	47	Pallavi Sable	
36	48	Shivsai Panchal	
37	59	Tushar D. Raut	
38	69	Vaibhavi S. Nimbalkar	
39	64	Sushma Sapekar	
40	58	ASAY - S Rathod	
41	73	Walzade Abhishek B.	
42	02	Akash Kute	
43	01	Rithish Adepu	
44	12	Swarupanand Desai	
45	16	Sujit Gaikwad	
46	22	Abhay Jadhav	
47	06	Ansh Bhale	
48	322	Gore Pranav	
49	43	Rohini Mokashe	
50	60	Rokade Vaishnavi	
51	04	Pratik Babar	
52	08	Vaishnavi Chakure	
53	24	Mrunal Jadhav	

Subject Teacher
(Mr. Riyaj Kazi)

HoD
(Dr. Sharan Inamdar)

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Best Practice – I

Competency Based Education and Assessment

Name of the faculty: - ..... Dr. Sanjay Koli .....

Name of the Subject :- ..... Network Security .....

Department: ..... E&TC .....

Class: ..... TE ..... Div: ... A & B

Competency Based Learning (Part A and Part B)

It is an active, adaptive, experiential and participatory learning where students' choice and voice are present in order to bring variety and variation in learning.

Note- Part A and B should cover latest developments, advancements, innovations and technologies in the subject domain.

{Select at least Three from each of Part-A & Part-B for every subject and map the outcome of activity}

Part A- Experiential Learning (Learning by Doing) (**Reference**: NAAC Manual Pg. 72)

Is a process of learning through experience and is more specifically defined as "learning through reflection on doing".

The following statements/ questions are related to the subject you teach in this semester

1. Is it possible to develop any prototype or model by the students related to the subject? Yes / No ✓
   If Yes, mention the related UNIT No. ..... and Prototype Name - .....
2. Do you want to show any product demo to the students related to any topic / UNIT? Yes ✓ / No ✓
   If Yes, mention the related UNIT No. ..... and Name of the Demo - .....
3. Do you want to assign any mini / major project to the students related to any topic? Yes / No ✓
   If Yes, mention the related UNIT No. ..... and the Project Name- .....
4. Are you going to arrange any industrial / Field / Laboratory visit? Yes ✓ / No ✓
   Name of Industry /Field/Lab visit - .....

Yes / No ✓

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5. Do you want to discuss a case studies related to the subject domain? Yes / No
   If Yes, mention the UNIT No. .6..... and Title of the case study - .Web Security.....
6. Do you want to focus on any simulation/gaming based learning in the subject? Yes / No
   If Yes, mention the UNIT No. ..... and Name of the Simulation/Game- .....
7. Do you want to assign any mentor from industry /company to the students so that they can understand the subject well? Yes / No
   If Yes, Name of the mentor and Industry name – .....
8. Is there any student club at department /college level related to the subject domain? Yes / No
   If Yes, Number of students to be enrolled to the club –
9. Do you want to conduct any workshop related to the subject domain? Yes / No
   If Yes, Name of the workshop- ..... No. of students enrolled –
10. Do you want to invite any expert / guest from an industry related to the subject? Yes / No
    If Yes, Name of the expert-..... Name of the Topic – .....
11. Do you want to empower the students to join an ad-on- course related to the subject? Yes / No
    If Yes, Name of the Ad-on-courses available - .....No. of students to be enrolled –
12. Do you want to empower the students to join a skill and practical oriented courses related to the subject? Yes / No
    If Yes, Name of the course available - .....No. of students to be enrolled –
13. Do you want to show a few videos on advances, latest development and technology in the domain or subject? Yes / No
    If Yes, Number of Videos to be shown (maintain the record)- 05
14. Any course available for the students w.r.t the subject domain at different learning platforms like Udemy, Coursera, Skillshare, MasterClass, Edx, Udacity etc. Yes / No
    Name of the courses - NPTEL

Part –B Participative Learning (Learning by participating) (Reference- NAAC Manual Pg. 75)

Participatory Learning and Action is a family of approaches, methods, attitudes, behaviours and relationships, which enable and empower people to share, analyze and enhance their knowledge of their life and conditions, and to plan, act, monitor, evaluate and reflect.

1. Do you want to ask open ended questions in the domain? Yes / No
   UNIT No.- ..... Question 1:- .....
   UNIT No.- ..... Question 2:- .....

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UNIT No.- ..... Question 3:- .....

2. Do you want to conduct group discussion/ Buzz sessions in the subject domain? Yes / No ✓

   UNIT No.- ..... Topic - .....

   UNIT No.- ..... Topic - .....

3. Do you want to use a question bowl approach in the discussion? Yes / No ✓

   Topic- .....

4. Do you want to conduct news analysis with the help of student on any topic? Yes / No ✓

   Unit No. ..... Example .....

5. Do you want to focus on peer learning w.r.t. the subject? Yes / No ✓

   Unit No. ..... Example .....

6. Do you want to use survey methods with the help of student to understand any topic? Yes / No ✓

   Unit No. ..... Example .....

7. Do you want to use Brainstorming session to understand the topic better? Yes ✓ / No

   Unit No. ...5..... Name of the Topic ....e-mail security.....

8. Do you want to conduct a small scale research in the subject domain with the help of students? Yes / No ✓

   Unit No. ..... Topic .....

9. Do you take any initiative with the help of the students to collect information related to a topic for better learning? Yes ✓ / No

   Unit No. .....3..... Topic ..Symmetric & Asymmetric key for Cipher.

10. Is there any possibility of using a critical incident in the subject domain for better teaching and learning? Yes / No ✓

    Unit No. ..... Incident .....

11. Do you want to use the approach of video viewing and discussion? Yes ✓ / No

12. Do you want to use any other participatory approach or method or game in teaching and learning? Yes / No ✓

    Name of the approach /method/game - .....

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Best Practice – II

Bridging the Gap between Education and Employment through Industry Connect

Name of the faculty: - ...Dr. sanjay Ikoi.....

Name of the Subject: - .....Network Security.....Class: TE..... Div: A+B

Sector of the industry Identified: - ...Cyber security.....

Name of the industry to be connected:- ...Innviksta Cybersecurity Solutions Pvt. Ltd, Pune

Plan of Action (PoA):- {Select at least five for each subject and map the outcome of activity}

1. Do you want to sign Sign MoU with the industry? Yes No Tentative date to sign the MoU:- ...../...../2023
2. Are there any hot topics, areas, trends, advances, technologies in the industry sector? Yes No
   Mention Names- .....
3. Do you want to identify issues, problems and challenges in the industry? Yes No
   List the issues.....
4. Do you want to conduct the product survey of the industry with the help of students? Yes No
5. Do you want to let the students to understand the website of the industry? Yes No
6. Do you want to arrange a physical visit to the industry? Yes No
7. Do you want to arrange a virtual visit of the industry? Yes No
8. Do you want to arrange a guest lecture? Yes No
   Title of the guest lecture -.....
9. Is it possible to get sponsored project(s) from the industry for the final year students? Yes No
10. Is it possible to get internship for the SE/TE students from the industry? Yes No

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11. Do you want to write a conference paper/article on the best practices of the industry by involving students? Yes No

12. Do you want to arrange a hands-on workshop for the subject in collaboration with the industry?
Title of the workshop - ..... Yes No

13. Is there any skill development course available in the market w.r.t the subject? Yes No
Title of the course - Advanced cyber security course

14. Are there any skilling, upskilling, reskilling or multiskilling trainings /workshops available at, NSDC/~~Skill India/Make~~ in India for the subject? Yes No
Names of the courses – Technical Intern Training Program (TITP)

15. Do you want to motivate the students to participate in National/international employability tests or exams in the subject? Yes No
Name of the tests - .....

Sign of Subject Teacher: (Dr.S.M.Kolí)

Sign of HoD
H.O.D.
Dept. of E. & [illegible]. Engineering
Dr. D.Y. Patil Sch[illegible] of Engg., Lohegaon

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Principal
Ajeenkya DY Patil School of [illegible]
Engineering, Lohe[illegible]n, Pune

Best Practice-I
Part-A

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Ajeenkya D. Y. PATIL SCHOOL OF ENGINEERING
Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105.
Department of E&TC Engineering

Form No. IQAC/30

Date: 18 /04 /2023

Event Permission with Budget

Academic Year: 2022-23 **Semester-II**

To

The Principal,

ADYPSoE, Pune

Subject: Request for permission to organize expert lecture and consequently the budget.

Through: HoD (E&TC)

Respected Sir,

I, Dr. Sanjay Koli subject teacher of Network Security, want to invite a expert from "Innvikta Cyber security, Pune" to deliver expert talk on 'Web Security' on 16/04/2023 from 3.00 PM to 5.00 PM.

Budget of the event:

Sr. No.	Particulars	Amount (Rs.)
	NIL	
	Total	Nil
Total in words:		

May I request you to give the permission to organize this event. I further request you to sanction the budget of Rs. NIL /-

Thanking You,

Yours Faithfully,

Name and Sign of Coordinator: Dr. Sanjay Koli

Departmental Event Coordinator: Prof. Sonali Khawate

HoD:

Principal:

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

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Date: 26 /04/2023

Event Report

Academic Year: 2022-23 **Semester-II**

Name of the event: Best practice -1: Case Study- Web Security

Date and Time	26/04/2023, 3.00 PM onwards
Event Venue	Class room. 232
Organized by	Dr. Sanjay Koli
Targeted Audience	TE (A&B) students
Resource Person	**Mr. Rahul Jagatap from Innvikta Cyber Security, Pune**

Event Contents:

1. To understand company profile
2. To understand threats to website security
3. Different solutions for web security.

Details of the event:

Mr. Rahul Jagatap, Senior security expert, from Innvikta Cyber security, Pune has started his session from scratch explaining network security concepts. He has also enlightened students about various security threats of websites and information. He has explained the various modern measures available to handle network security. He has nicely answered to the questions of students.

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Geotagged Photos:

Name and Sign of Coordinator:_____

Departmental Event Coordinator:_____

HoD:_____

H.O.D.
Dept. of E. & T.C. Engineering
Dr. D.Y. Patil School of Engg., Lohegaon

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Department of Electronics & Telecommunication Engineering

Best Practice Activity Attendance

26/04/2023

A.Y.: 2022-2023 Semester: I/II Class: TE (E&TC) Div: A/B

Name of Subject: Network Security

Title of Best Practice: -I part A) Competency Based Education & assesment-

Activity Title: Case study - Web security

Roll No.	Name of student	Sign
365	Shinde sanil s.	Shinde
361	Fahed A. Shaikh	
362	Shaikh sameer	
330	Hamid Jalgaonkar	
327	Tejas Sanjay Jadhav	
333	Ajinkya kamble	
345	Chetan Patil	
313	Prajakta Chavan	Chavan
343	Vaishnavi Pabalkar	Vai
342	Kalbhor Omkar	Omkar
328	Jadhav Vaibhav	Jadhav
302	Ajeej Pcej	Ajeej
322	Gore Pranav	Pranav
331	Pooja Kadam	Pooja
374	Waghmare Shubham	
372	Thorat Sahil	
315	Deokar Viraj	
312	Aishwarya chavan	
320	Shambhavi Ghegade	Ghegade
357	Srushti Rukme	Srushti
368	Subodh Dhake	

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340	Digvijay Mane Deshmukh	
329	Jagtap Shravankumar D.	
350	Priyadarsh Dwivedi	
304	Asim Ansari	
346	Vaishnavi Patil	Vaishnavi
359	Sarolkar gargi	gargi
318	Dolse Mayabai	
366	Sneha shinde	Sneha

Subject Teacher
(Dr. Sanjay Koli)

HoD
(Dr. Sharan Inamdar)

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Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105.
Department of Electronics & Telecommunication Engineering

Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: I/II Class: TE (E&TC) Div.: A/B

Name of Subject: Network Security

Title of Best Practice: I part A) Competency Based Education & assesment-

Activity Title: Case Study - Web security

Roll No.	Name of student	Sign
64	Sushma Supekar	
60	Kokade Vaishnavi	
32	Sakshi kamble	
47	Pallavi Sable	
43	Rohini Mokashe	
39	Manish S. Shinde	
37	Anant. kumar	
51	Pallavi Patil	
31	Kalje omkar	
28	Gayatri Jasud	
61	maya Salakar	
69	Vaibhavi Nimbalkar	
34	Sushma karbe	
31	Kalje omkar	
49	Divya Panchmukh	
14	Sonali Dhaygude	
10	Hardik Chotalia	
29	Priyanka Jawale	
66	Kiran takle	
71	Vaishnavi More	
33	Sujal kamble	

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44	Ajay Mondal	
46	Omkar Seshadri	
41	Mansuri Gous	
42	Vinod Mhetre	
53	Akash Pawal	
63	Arshad Sayyad	Sayyad. A. P.
67	Bhairavanath B. T.	
16	Sujit Gaikwad	
13	Janhavi Dhanve	
73	Abhishek Walgade	

Subject Teacher
(Dr. Sanjay Koli)

HoD
(Dr. Sharan Inamdar)

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Lohegaon, Pune

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EXPERIMENT NO: 08
TITLE OF EXPERIMENT: Steps to ensure Security of any one web browser (Mozilla Firefox/Google Chrome)

DY Patil School of Engineering Lohegaon, Pune
Principal
Vidyaratna Maharshi Shankarrao Kalyanrao Patil Alias Bhausaheb Patil Alias Abasaheb Patil Alias Appasaheb Patil Vidyaprabodhini's Vidyaratna Maharshi Abasaheb Kalyanrao Patil Alias Appasaheb Patil Alias Bhausaheb Patil Alias Shankarrao

Aim: Study of Steps to ensure Security of any one web browser (Mozilla Firefox/Google Chrome)

1. **Objectives**:

To study different steps of Security of web browser

2. **Theory:**

Browser security is an important part in keeping your information safe. Your browser is the window to the internet and also the first line of defense against malware threats. Some small tweaks to your browser security settings are all that you need to make your time online that much safer.

Browser features and their security vulnerabilities

Browsers use many tools for various tasks, such as Java, Flash Player, ActiveX, etc. But these often come with security flaws, which cybercriminals exploit to get access to your PC. A quick rundown of these tools will help you figure out if you need them or not.

Deactivate ActiveX.

A browser add-on that comes preinstalled on Internet Explorer or Microsoft Edge and only works with these browsers. ActiveX acts as a middle man between your PC and Java/Flash based interactions in certain sites. This creates security problems by giving malicious websites a window into your PC. What's more, ActiveX is rarely used nowadays, so be on your guard if a site asks you to install it and accept the installation only if you are 150% sure that site is trustworthy.

Try to disable JavaScript.

JavaScript is a programming language used by websites to run various programs and features. Sites such as YouTube or Google Docs need it to function, but so do advertising, pop-up software and a whole host of other spammy elements from the internet. Cybercriminals use JavaScript in malicious ways in order to infect your device with malware and other harmful software. If you disable JavaScript altogether you will get a much quicker and simplified browser experience, with little to no ads, pop-ups, greatly improved page load times and generally a cleaner Internet experience at the cost of specialized tools such as Google Docs or YouTube. This doesn't need to be as drastic as it sounds, since browsers do allow you to white list certain sites which can run JavaScript.

Delete Cookies.

These are small data files stored on your browser. Websites use cookies in order to remember your accounts and passwords, browsing history and to track user behaviour on their site. Because of the information they contain, cookies are prime targets for cybercriminals, especially the ones that contain emails, account names and passwords. When you disable and clear cookies you cut down on the personal data cybercriminals can obtain.

One thing you will want to keep in mind is **that there are two types of cookies: First party and third party cookies**.

First party cookies are placed by the site you visit, for instance you get a first party cookie by cnn.com while visiting cnn.com. Third party cookies are placed by other sites, for example you get a cookie from amazon.com while visiting cnn.com. First party cookies are frequently used to

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remember your login information so you don't have to enter it every time you visit a site. But we can't stress this enough, don't allow your browser to save passwords! Third party cookies are almost always placed on your computer by advertisers or marketers interested in tracking your movement online, so nothing bad will happen if you block them.

Browser extensions and add-ons add extra functionality to your browser such as ad blocking or search bars. However, these add-ons pose a security risk, since they can open up windows into your PC which can be exploited to inject malware.

Firefox hacks and tips for better security

If you use Mozilla Firefox and want to improve your browser security settings, press the hamburger menu in the top right corner and go to "Options".

In the "General" tab, at the Downloads section, press "Always asks me where to save files". This way, you won't have a web location try to automatically save dangerous content to your computer. At the same time, this gives you the option to place suspicious content in a safe location where you can analyze it afterwards.

Conclusion:-_____

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Date: 18/05/2023

Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: I/II Class: TE (E&TC) Div: A/B

Name of Subject: Network Security

Title of Best Practice: -I part A) Competency Based Education and assesment-

Activity Title: Information about online learning platform w.r.t subject domain – NPTEL course.

1. https://nptel.ac.in/courses/106/106/106106199
2. https://onlinecourse.swayam2.ac.in/noc19_cs08/preview

Roll No.	Name of student	Sign
361	Fahed Akil Shaikh	
365	Sanil Shinde.	
362	Shaikh sameer	
330	Hamid Jalgaonkar	
333	Ajinkya Kamble	
327	Tejas sanjay Jadhav	
345	Chetana Patil	
373	Mandip Suresh vahile	
322	Gore Pranav	
302	Ajay Aces	
331	Pooja Kadam	
315	Deokar Viraj	
374	Waghmare Shubham	
372	Thorat Sahil	
312	Aishwarya Chavan	
320	Shambhavi Bhegade	
357	Srushti Rukme	
368	Subodh Dhoke	
340	Digvijay ManeDeshmukh	
329	Jagtap Shravankumar D.	
350	Priyotkarsh Dwivedi	

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Lohegaon, Pune

304	~~Asim Ansari~~	~~Ansari~~
346	Vaishnavi Patil	Vaishnavi
359	Sarolkar gargi	gargi
318	Dake Gayatri	
366	Sneha Shinde	366

Subject Teacher
(Dr. Sanjay Koli)

HoD
(Dr. Sharan Inamdar)

Principal
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Department of Electronics & Telecommunication Engineering

Date : 18/05/2023

Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: I/II Class: TE (E&TC) Div.:A/B

Name of Subject: Network Security

Title of Best Practice: -I part A) competency Based education and assesment.

Activity Title: Information about online learning platform w.r.t. subject domain - NPTEL course

1. https://nptel.ac.in/courses/106/106/106106199
2. https://onlinecourse.swayam2.ac.in/nou19_cs08/preview

Roll No.	Name of student	Sign
73	Wadzade Abhishek B	
42	MHETRE VINOD B	
46	Omkar SBShadvi	
41	Mansuri Gousmohammad	
63	Sayyad Arshad	
53	Akash Dadarao Pawar	
44	Ajay Mondal	
58	ATAY. S. Rathod	
26	Varad Jagdale	
64	Bhairavanath. B. T.	
40	Asif Manivar	
60	Kokade Vaishnavi	
03.	Sushma Supare	
60	Kokade Vaishnavi	
43.	Mokashi Rohini	
16.	Sujit Gaikwad	
37	Anant. Kumar	
69	Vaibhavi Nimbalkar	
49	Divya Panchmukh	
14	Sonali Dhaygude	
54	Aditee Pawar	

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Lohegaon, Pune

10	Hardik Chotalia	Hardik.
28	Gayatri Jasud	Jasud
31	omkar Kolhe	Kolhe.

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HoD
(Dr. Sharan Inamdar)

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Lohegaon, Pune

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Date:19/04/2023

Event Report

Academic Year: 2022-23 **Semester-II**

Name of the event: Best Practice-I) Part-B: Brainstorming Session on "E-mail Security"

Date and Time	19/04/2023, 2.00 PM onwards
Event Venue	Lab 233
Organized by	--
Targeted Audience	TE Students
Resource Person	**Students**

Event Contents:

1. E-mail Security

Details of the event:

A brainstorming session was organized for the students. The topic given was "e-mail secuirty".

Geotagged Photos:

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Name and Sign of Coordinator:_____

Departmental Event Coordinator:_____

HoD:_____

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Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: I(II) Class: TE (E&TC) Div.(A)/B

Name of Subject: Network Security

Title of Best Practice: ~~– I B) part B)~~ – Competency Based Education & assessment-

Activity Title: ~~Ex~~ Brainstorming session - Email security.

Roll No.	Name of student	Sign
330	Hamid Jalgaonkar	
362	Shaikh Sameer	
361	Shaikh Fahed	
365	Sanil Shinde.	
327	Tejas Sanjay Jadhav	
333	Ajinkya Kamble	
345	Chetana. Pathl	
373	Mandip Suresh Vahile	
322	Gore pranav	
302	Ajeej Deep.	
331	Pooja Kadam	
374	Waghmare Shubham	
372	Thorat Sahil	
315	Deokar Viraj.	
312	Aishwarya Chavan	
320	Shambhavi Ghegade	
357	Srushti Rukme	
368	Subodh Dhoke	
340	Dhanjay Mane Deshmukh	
329	Jagtap Shravankumar-D	
350	Pitambar Dwivedi	

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304	Asim Ansari	Ansari
346	Vaishnavi patil	Vaishnavi
359	gargi sawalkar	gargi
318	Dolse Gayatri	
366	Sneha shinde	Sneha

Subject Teacher
(Dr. Sanjay Koli)

HoD
(Dr. Sharan Inamdar)

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Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: VII Class: TE (E&TC) Div.: A B

Name of Subject: Network security

Title of Best Practice: -I part B) Competency Based education & assesment

Activity Title: Brainstorming session - Email security

Roll No.	Name of student	Sign
71	Vaishnavi J. More	Vaishy
33	Sujal V. kamble	Sujal
73	Walzade Abhishek B.	ABW
42	MHETRE VINOD B	
67	Bhairavanath. B. T	
63	Sayyad Arshad Paigambar	Sayyad A.P.
41	Gous Manswi	
46	Omkar Seshadri	
58	ATAY S. Rathod	
53	Akash D. Pawar	
44	Ajay Mondal	
26	Varad Jagdale	Vadab
40	Asif maniyar	Asif
64	Sushma Supal	
60	Pokade Vaishnavi	Pokade
16	Sujit Gaikwad	
37	Anant Kumar	
14	Sonali Dhaygude	
13	Janhavi Dhanve	
49	Divya Panchamukh	
29	Priyanka Jawale	Jawale

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Ajeenkya DY Patil School of Engineering Lohegaon, Pune

Ajeenkya DY Patil School of Engineering E&TC Engineering

43.	Rohini Mokashe	
28	Gayatri Jasud	
51	Pallavi Patil	
31	Kokje Omkar	

Subject Teacher
(Dr. Sanjay Koli)

HoD
(Dr. Sharan Inamdar)

Principal
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Date: 08/05/2023

Event Report

Academic Year: 2022-23 **Semester-I/II**

Name of the event: Best practice-I Part B) Competency Based Education and Assessment.

Topic: Video Viewing and discussion

Date and Time	08/05/2023, 10.00 AM- 12.00 noon
Event Venue	Lab 237 and Class room 232
Organized by	Dr. Sanjay Koli
Targeted Audience	TE (A&B) Students
Resource Person	NA

Event Contents:

Video Viewing and discussion

Details of the event:

A video available publicly on "RSA encryption and Decryption" was shown to students and discussed the details of the process.

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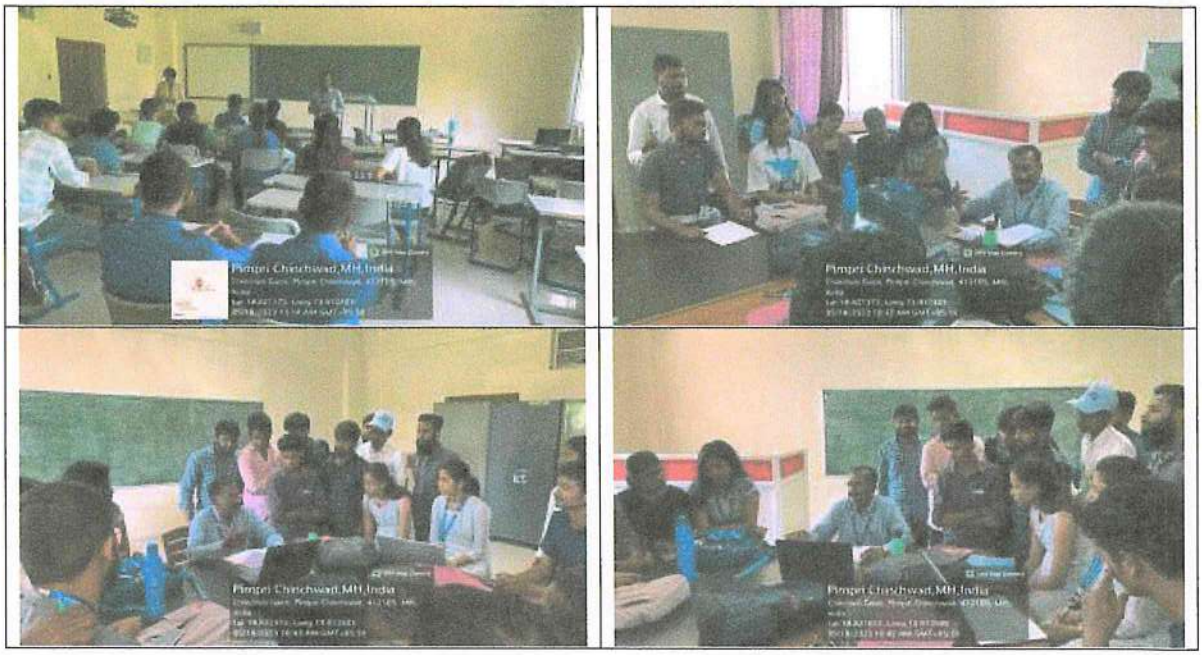
Geotagged Photos:



Name and Sign of Coordinator:_____

Departmental Event Coordinator:_____

HoD:_____

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Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: I/II Class: TE (E&TC) Div. A/B

Name of Subject: Network security

Title of Best Practice: -I part B) ~~Video~~ viewing ~~and~~ ~~discussion~~.
Competency Based Education & assesment

Activity Title: Video viewing and discussion

Roll No.	Name of student	Sign
327	Tejas sanjay Jadhav	
330	Hamid Jalgaonkar	
333	Ajinkya 'Kamble'	
313	Prajakta Chavan	
343	Vaishnavi Pabalkar	
328	Jadhav Vaibhav	
342	Kalbhor Omkar	
373	Mandip Suresh Vahile	
362	Shaikh Sameer	
345	Chetana Patil	
315	Deokar Viraj	
365	Shinde Sanil	
361	Fahad Shaikh	
374	Waghmare Shubham	
372	Thorat Sahil	
312	Aishwarya Chavan	
320	Shambhavi Chegede	
357	Srushti Rukme	
368	Subodh Dhake	
340	Digvijay Mane Deshmukh	
329	Jagtap Shravankumar -D.	

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350	Paryotkarsh Dwivedi	
304	Asim Ansari	
346	Vaishnavi Patil	
359	Sarolkar gargi	
318	Dolse Mayatai	
366	sneha shinde	

Subject Teacher
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HoD
(Dr. Sharan Inamdar)

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Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: I/II Class: TE (E&TC) Div.:A/B

Name of Subject: Network security

Title of Best Practice: -I part B) competency Based Education & assesment

Activity Title: video viewing and discussion.

Roll No.	Name of student	Sign
73	Walzade Abhishek B.	
42	MHETRE VINOD	
71	Vaishnavi more	
33	Sujal kamble	
08	Vaishanavi chutke	
56	pratik sailor	
61	maya Ravindra salalkar	
69	Vaibhavi Nimbalkar	
49	Divya Panchmukh	
14	Sonali Dhaygude	
10	Hardik Chotalia	
34	Sushma Karke	
28	Gayatri Jasud	
37	Anant kumar	
51	Pallavi Patil	
39	manish S. shinde	
32	Sakshi Kamble	
31	Omkar Kalje	
43	Rohini Mokone	
60	Rokade Vaishnavi	
16	Sujit Gaikwad	
29	Priyanka Jawale	

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53	Akash Pawal	
67	Bhairavanath B.T.	
63	Sayyad Arshad	Sayyad.A.P.
44	Ajay Mondal	
66	Kiran Takale	

Subject Teacher
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HoD
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Event Report

Academic Year: 2022-23 **Semester-II**

Name of the event: Best Practice-II) Bridging the gap: Virtual Product Survey of the industry

Date and Time	18/05/2023, 12.30 PM-1.30 PM
Event Venue	Class room 232
Organized by	Dr. Sanjay Koli
Targeted Audience	TE (A&B) students
Resource Person	**NA**

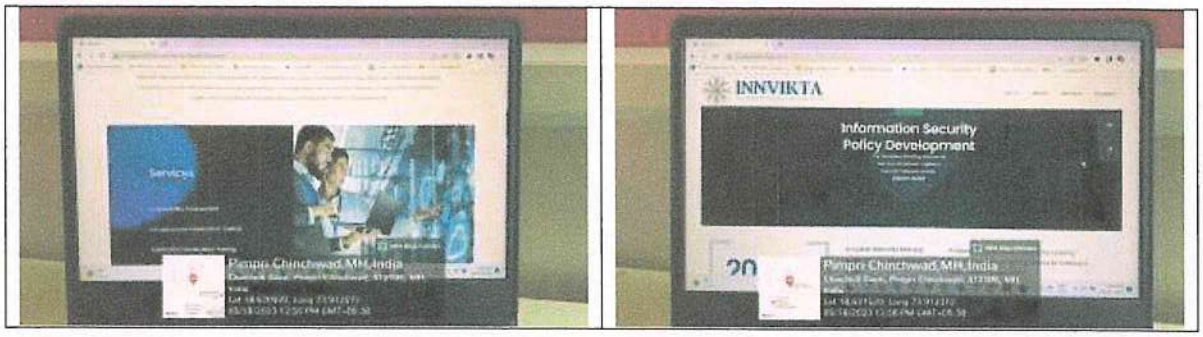
Event Contents:

Virtual Product Survey of the industry in subject domain: "Innvikta Cyber Security, Pune"

Details of the event:

The students were made aware of different products of the industry in the subject domain virtually. The details were shown to students and discussed.

Geotagged Photos:



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Name and Sign of Coordinator:_____

Departmental Event Coordinator:_____

HoD:_____

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Principal
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Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: I/II Class: TE (E&TC) Div.: A/B

Name of Subject: Network security

Title of Best Practice: -II) Bridging the gap between education and employment through industry connect

Activity Title: Virtual product survey of the industry

Roll No.	Name of student	Sign
302	Ajeej Dees	
322	Gore Pranav	
331	Pooja Kadam	
328	Jadhav Vaibhav	
342	Kalbhor Omkar	
343	Vaishnavi Pabalkar	
313	Pragakta Chavan	
327	Tejas Sanjay Jadhav	
373	Mandip Suresh Vahile	
362	Shaikh Sameer	
330	Hamid Jalgaonkar	
345	Chetanic Pathi	
333	Ajinkya Kamble	
327	Tejas Jadhav	
315	Deokar Viraj	
365	Shinde Sanil	
361	Faheel Shaikh	
374	Waghmare Shubham	
372	Thorat Sahil	
312	Aishwarya Chavan	
320	Shambhavi Ghegade	

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357	Soushti Rukme	
368	Subodh Dhoke	
340	Digvijay Mane Deshmukh	
329	Jagtap Shravankumar . D.	
350	Priyeshkash Dwivedi	
304	Asim Ansari	
346	Vaishnavi Patil	
359	gargi Sarolkar	
318	Dolse Gayatri	
366	Sneha Shinde	

Subject Teacher
(Dr. Sanjay Koli)

HoD
(Dr. Sharan Inamdar)

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Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: I/II Class: TE (E&TC) Div.:A/B

Name of Subject: Network security

Title of Best Practice: -II) Bridging the gap between education and employment through industry connect

Activity Title: Virtual product survey of the industry

Roll No.	Name of student	Sign
32	Sakshi Kamble	
43	Rohini Mokadhe	
60	Kokade Vaishnavi	
64	Sushma Supekar	
39	Manish S. Shinde	
47	Pallavi Sable	
37	Anant Kumar	
28	Gayatri Jasud	
69	Vaibhavi Nimbalkar	
61	maya R. Salalkar	
31 ~~28~~	Omkar Kabie	
56	Pratik Sadar	
~~02~~	Vaishnavi Chetule	
33	Sujay Kamble	
71	Vaishnavi more	
73	Wadzade Abhishek B	
42	MHETRE VINOD. B	
41	Mansuri Gous mohammad	
16	Sujit Gaikwad	
13	Janhavi Dhanve	
51	Pallavi Pathi	

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49	Divya Panchmukh	
14	Sonali Dhaygude.	
68	Aashad Sayyad	Sayyad A.S.
53	Akash Pawar	
67	Bhairavanath B.T.	
44	Ajay Mondal	
29	Priyanka Jawale	
34	Sashma Kazke	
69	Vaibhavi Nimbalkar	

Subject Teacher
(Dr. Sanjay Koli)

HoD
(Dr. Sharan Inamdar)

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Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: I/II Class: TE (E&TC) Div.: A/B

Name of Subject: Network security

Title of Best Practice: II) Bridging the gap between education and employment through industry connect

Activity Title: Understanding website of industry "WWW.innvikta.com"

Roll No.	Name of student	Sign
328	Jadhav Vaibhav	
342	Omkar Kalbhor	
322	Gore Pranav	
302	Ajeej Dees	
373	Mandip Suresh Vahile	
333	Ajinkya Kamble	
345	Chetanee PATHI	
362	Shaikh sameer	
361	Fahed Shaikh	
365	Sahil Shinde	
330	Hamid Jalgaonkar	
374	Waghmare Shubham	
372	Thorat Sahil	
315	Deokar Viraj	
312	Aishwarya Bhavar	
320	Shambhavi Ghegade	
357	Sayshti Rukme	
368	Subodh Bhalke	
340	Digvijay Mane Deshmukh	
329	Jagtap Sharvankumar D.	
350	Priyadarsh Durnedi	

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304	Asim Ansari	Ansari
346	Vaishnavi Patil	Vaishnavi
359	gargi Sarolkar	gargi
318	Dolse Gayatri	
366	Sneha Shinde	Sneha

Subject Teacher
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HoD
(Dr. Sharan Inamdar)

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Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: I/II Class: TE (E&TC) Div.:A/B

Name of Subject: Network security

Title of Best Practice: -II) Bridging the gap between education and employment through industry connect

Activity Title: Understanding website of industry.
"WWW.innvikta.com"

Roll No.	Name of student	Sign
34.	Sushma Bhimashankar Karke	Sushma.
49.	Divya Panchmukh	Divya.
14	Sonali Dhaygude	Sonali
10	Hardik Chotalia	Hardik.
56	Pratik Gajanan Sader	SP
08	Vaishnavi Dnyandev Chature	Vchature
71	Vaishnavi T. More	Vaishnavi
38	Swal V. Kamble	Swal
73	Wdzade Abhishek B.	ABW
58.	Rathod Ajay. S.	Ajay.
46	Omkar Seshadri	
67	Bhairavanath. B. T.	
63	Sayyad Arshad. p	Sayyad.A.P
40	Asif Manivar	Asif.
53	Akash D. Pawar	
44	Ajay Mondal	
41	Gous Mohammad.	
2667	Varad Jagdale	Wadale
66	kiran Takale	
42	MHETRE VINOD. B	
41	Mansuri Gous mohamad	

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Ajeenkya DY Patil School of Engineering Lohegaon, Pune

Ajeenkya DY Patil School of Engineering E&TC Engineering Lohegaon, Pune

28	Gayatri Jasud	Jasud
37	Anant kumar	
51	Patil Pallavi	Patil
31	Kale omkar	Kale

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Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: I/II Class: TE (E&TC) Div: A/B

Name of Subject: Network security

Title of Best Practice: -II) Bridging the gap between education & employment through industry connect.

Activity Title: Information about skilling program "Technical Intern Training Program" (TITP)

Roll No.	Name of student	Sign
327	Tejas sanjay Jadhav	
333	Tejo Ajinkya kamble.	
373	Mandip suresh vahile	
322	Gore Pranav	
331	pooja Kadam	
328	Jadhav Vaibhav	
342	Kalbhor Onkar	
343	Naishnavi Pabalkar	
313	Prajakta. Chavan	
345	Chetana Patil	
362	Shaikh sameer	
330	Hamid Jalgaonkar	
315	Deokar Viraj	
365	Shinde sanil	
361	Fahed Shaikh	
374	Waghmare Shubham	
372	Thorat Sahil	
312	Aishwarya chavan	
320	Shambhavi Lohegade	
357	Srushti Rukme	
368	Subodh Dhole	

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340	Digvijay mane Deshmukh	
329	Jagtap Bharankumar D.	
350	Pitambar Dwivedi	
304	Asim Ansari	Ansari
346	Vaishnavi Patil	Vaishnavi
359	Sawalkar gargi	gargi
318	Dolke Jayabi	
366	Sneha Shinde	Sneha

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Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: I/(II) Class: TE (E&TC) Div.:A/(B)

Name of Subject: Network Security

Title of Best Practice:- II) Bridging the gap between education & employment through industry connect.

Activity Title: Information about skilling program. "Technical Intern Training Program" (TITP)

Roll No.	Name of student	Sign
56	Pratik Gajanan Saabt	
08	Vaishnavi Dnyandev Chature	
29	Priyanka Jawale	
66	Kiran Tukle	
49	Divya Panchmukh	
14	Sonali Dhaygude	
10	Hardik Chotalia	
13	Dhanve Janhavi	
16	Sujit Gaikwad	
46	Omkar Seshadri	
41	Mansuri	
58	AJAY S. Rathod	
44	AJAY . modal	
47	Pallavi Sable	
53	AKash D. Pawal	
63	Sayyad Arshad	
31	Kodie omkar	
69	Vaibhavi Nimbalkar	
28	Gayatri Jasud	
37	Anant kumar	
51	Pallavi Patil	

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49	Divya Panchmukh	
14	Sonali Dhaygude	
41	Mansuri Wasimohammad I	
42	MHETRE VINOD B	
46	Omkar Seshadri	
67	Bhairavanath B. T	
71	Vaishnavi J. More	
78	Abhishek Walzade	
33	Kamble Sujal	

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HoD
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Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: I/(II) Class: TE (E&TC) Div.:A/(B)

Name of Subject: Network security

Title of Best Practice: II) Bridging the gap between education and employment through industry connect-

Activity Title: Information about skill development courses i) Advanced Cyber Security Course"

Roll No.	Name of student	Sign
61	Maya R. Salalkar	
28	Gayatri Jasud	
37	Anant. kumar	
31	Kakie omkar	
5	Pallavi Patil	
6.	Rohini Makashe	
7.	sakshi kamble	
8.	Vaishnavi Rokade	
9.	sushma supekar	
73	Wabade Abhishek R	
71	Vaishnavi J. More	
33	Suyal V. kamble	
58	AJAY S. Rathod	
42	MHETRE VINOD	
41	Mansuri Gousmohammad	
16	Sujit Gaikwad	
46	Omkar Seshadri	
47	Pallavi Sable	
44	Ajay Mondal	
63	Sayyad Arshad	
67	Bhairavanath. B. T.	

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Ajeenkya DY Patil School of Engineering Lohegaon Pune

Ajeenkya DY Patil School of Engineering E&TC Engineering Lohegaon, Pune

53	Akash D. Pawal	
40	Maniyar Asif	
26	Varad Jagdale	
49	Divya Panchmukh	
14	Sonali Dhaygude	
69	Vaibhavi Nimbalkar	
10	Hardik Chotalia	
73	Abhishek Walzade	

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HoD
(Dr. Sharan Inamdar)

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Best Practice Activity Attendance

A.Y.: 2022-2023 Semester: I/II Class: TE (E&TC) Div: A/B

Name of Subject: Network security

Title of Best Practice: II) Bridging the gap between education and employment through industry connect-

Activity Title: Information about skill development courses. "Advanced cyber security Course"

Roll No.	Name of student	Sign
313	Prajakta Chavan	Chavan
343	Vaishnavi Pabalkar	Vais
342	Kalbhor Omkar	Omkar
373	Mandip Sarath Vahile	
328	Jadhav Vaibhav	
322	Gore Pranav	
302	Ajay Des	
381	Pooja Wadam	
327	Tejas Jadhav	
333	Ajinkya Kamble	
362	Shaikh sameer	
330	Hamid Jalgaonkar	
345	Chetana Patil	
315	Deokar Viraj	
365	Shinde Sanil	
361	Shaikh Farhad	
374	Waghmare Shubham	
372	Thorat Sahil	
312	Aishwarya Chavan	
320	Shambhavi Ghegade	
357	Srushti Rakme	

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Ajeenkya DY Patil School of Engineering * E&TC Engineering * Lohegaon, Pune

368	Subodh Dhake	
340	Digvijay Mane Deshmukh	
329	Jagtap Shravankumar - D.	
350	Pitambarkash Dwivedi	
304	Asim Ansari	
346	Vaishnavi Patil	
359	gargi sarolkar	
318	Dalsc Gayatri	
366	Sneha shinde	

Subject Teacher
(Dr. Sanjay Koli)

HoD
(Dr. Sharan Inamdar)

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Best Practice – I

Competency Based Education and Assessment

Name of the faculty: - ....Asst. Prof. Gayatri C. Sheelkar.....

Name of the Subject :- ....Geotechnical Engineering.....

Department: ....Civil Engineering.....

Class: ...SE... Div: ...B&C

Competency Based Learning (Part A and Part B)

It is an active, adaptive, experiential and participatory learning where students' choice and voice are present in order to bring variety and variation in learning.

Note- Part A and B should cover latest developments, advancements, innovations and technologies in the subject domain.

{Select at least Three from each of Part-A & Part-B for every subject and map the outcome of activity}

Part A- Experiential Learning (Learning by Doing) (**Reference**: NAAC Manual Pg. 72)

Is a process of learning through experience and is more specifically defined as "learning through reflection on doing".

The following statements/ questions are related to the subject you teach in this semester

1. Is it possible to develop any prototype or model by the students related to the subject? Yes / No
   If Yes, mention the related UNIT No. ..... and Prototype Name - .....
2. Do you want to show any product demo to the students related to any topic / UNIT? Yes / No
   If Yes, mention the related UNIT No. ..3.. and Name of the Demo - Compaction of soil
3. Do you want to assign any mini / major project to the students related to any topic? Yes / No
   If Yes, mention the related UNIT No. ..01.. and the Project Name- Soil type collection / Collection of soil investigation report
4. Are you going to arrange any industrial / Field / Laboratory visit? Yes / No
   Name of Industry /Field/Lab visit - .....
5. Do you want to discuss a case studies related to the subject domain? Yes / No
   If Yes, mention the UNIT No. ....6..... and Title of the case study - ....Malin landslide

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6. Do you want to focus on any simulation/gaming based learning in the subject? Yes / No
   If Yes, mention the UNIT No. ..... and Name of the Simulation/Game- .....
7. Do you want to assign any mentor from industry /company to the students so that they can understand the subject well? Yes / No
   If Yes, Name of the mentor and Industry name – .....
8. Is there any student club at department /college level related to the subject domain? Yes / No
   If Yes, Number of students to be enrolled to the club –
9. Do you want to conduct any workshop related to the subject domain? Yes / No
   If Yes, Name of the workshop- ..... No. of students enrolled –
10. Do you want to invite any expert / guest from an industry related to the subject? Yes / No
    If Yes, Name of the expert- IGS chapter ..... Name of the Topic – ~~Slope stability~~ Pile tests.
11. Do you want to empower the students to join an ad-on- course related to the subject? Yes / No
    If Yes, Name of the Ad-on-courses available - .....No. of students to be enrolled –
12. Do you want to empower the students to join a skill and practical oriented courses related to the subject? Yes / No
    If Yes, Name of the course available - Consultancy ..No. of students to be enrolled – 04
13. Do you want to show a few videos on advances, latest development and technology in the domain or subject? Yes / No
    If Yes, Number of Videos to be shown (maintain the record)- 10
14. Any course available for the students w.r.t the subject domain at different learning platforms like Udemy, Coursera, Skillshare, MasterClass, Edx, Udacity etc. Yes / No
    Name of the courses - Geotechnical lab. (NPTEL)

Part –B Participative Learning (Learning by participating) (Reference- NAAC Manual Pg. 75)

Participatory Learning and Action is a family of approaches, methods, attitudes, behaviours and relationships, which enable and empower people to share, analyze and enhance their knowledge of their life and conditions, and to plan, act, monitor, evaluate and reflect.

1. Do you want to ask open ended questions in the domain? Yes / No
   UNIT No.- ..... Question 1:- .....
   UNIT No.- ..... Question 2:- .....
   UNIT No.- ..... Question 3:- .....
2. Do you want to conduct group discussion/ Buzz sessions in the subject domain? Yes / No
   UNIT No.- 03. Topic - List of compaction equipment .....

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UNIT No.- ..... Topic - .....

3. Do you want to use a question bowl approach in the discussion? ✓ Yes / No
   Topic- ..... Index properties of soil & Tests .....
4. Do you want to conduct news analysis with the help of student on any topic? Yes / No
   Unit No. ..... Example .....
5. Do you want to focus on peer learning w.r.t. the subject? Yes / No
   Unit No. ..... Example .....
6. Do you want to use survey methods with the help of student to understand any topic? Yes / No
   Unit No. ..... Example .....
7. Do you want to use Brainstorming session to understand the topic better? Yes / No
   Unit No. ..... Name of the Topic .....
8. Do you want to conduct a small scale research in the subject domain with the help of students? Yes / No
   Unit No. ..... Topic .....
9. Do you take any initiative with the help of the students to collect information related to a topic for better learning? ✓ Yes / No
   Unit No. ..... Topic .....
10. Is there any possibility of using a critical incident in the subject domain for better teaching and learning? Yes / No
    Unit No. ..... Incident .....
11. Do you want to use the approach of video viewing and discussion? ✓ Yes / No

12. Do you want to use any other participatory approach or method or game in teaching and learning? Yes / No
    Name of the approach /method/game - .....

11/4/23

Sign of Subject Teacher:
(Asst. Prof. Sheekare G.C.)

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Sign of HoD
HOD
Civil Engineering
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Best Practice – II

Bridging the Gap between Education and Employment through Industry Connect

Name of the faculty: - ....Gayatri Chandrakant Sheelar....

Name of the Subject: - ....Geotechnical Engineering....Class: ....S.E.... Div: ....B&C

Sector of the industry Identified: - ....Geotech....

Name of the industry to be connected:- ....Geotechnical consultancy labs / Soiltech Pvt. Ltd

Plan of Action (PoA):- {Select at least five for each subject and map the outcome of activity}

1. Do you want to sign Sign MoU with the industry? Yes No Tentative date to sign the MoU:- ..../...../2023
2. Are there any hot topics, areas, trends, advances, technologies in the industry sector? Yes ✓ No
   Mention Names- .....
3. Do you want to identify issues, problems and challenges in the industry? Yes ✓ No
   List the issues..Slope stability.....
4. Do you want to conduct the product survey of the industry with the help of students? Yes No
5. Do you want to let the students to understand the website of the industry? Yes ✓ No
6. Do you want to arrange a physical visit to the industry? Yes No
7. Do you want to arrange a virtual visit of the industry? Yes No
8. Do you want to arrange a guest lecture? Yes No
   Title of the guest lecture -.....
9. Is it possible to get sponsored project(s) from the industry for the final year students? Yes No
10. Is it possible to get internship for the SE/TE students from the industry? Yes ✓ No

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11. Do you want to write a conference paper/article on the best practices of the industry by involving students? Yes No

12. Do you want to arrange a hands-on workshop for the subject in collaboration with the industry? Yes No
    Title of the workshop - .....

13. Is there any skill development course available in the market w.r.t the subject? Yes No
    Title of the course -

14. Are there any skilling, upskilling, reskilling or multiskilling trainings /workshops available at, NSDC/Skill India/Make in India for the subject? Yes No
    Names of the courses –

15. Do you want to motivate the students to participate in National/international employability tests or exams in the subject? Yes No
    Name of the tests - .....

Sign of Subject Teacher:
(Asst. Prof. Sheekaa G.C)

Sign of HoD
HOD
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Best Practice I

Report

Subject : Geotechnical Engineering

Subject Teacher: Prof. Gayatri C. Sherkar

Activity: Demo on concept of Compaction of soil

Apparatus:

1. Two 500ml jars
2. Measuring Scale, marker pen
3. Weighing balance
4. Soil
5. Tamping Rod for compaction

Procedure:

1. Weight two same measuring cylinder and mark up to 3ooml with marker.
2. In first container fill the soil sample by loose hand without compaction up to 300ml mark and weight the container with soil.
3. Second container filled with same soil sample filled in first container up to 300ml mark by tamping the soil by tamping rod and weight it.
4. You will observe the weight of first container less than second container.
5. Make the calculation and determine the density of soil filled in equal volume of container.

Observation:

Sr. No.	Particulars	Container 1 (loosely filled)	Container 2 (Compacted soil)
1	Empty weight of container (gm)	800	800
2	weight of container with soil (gm)	1340	1650
3	Weight of soil (gm)	540	850
4	Volume of soil (cc)	300	300
5	Density of soil (gm/cc) =(weight/volume)	1.8	2.833

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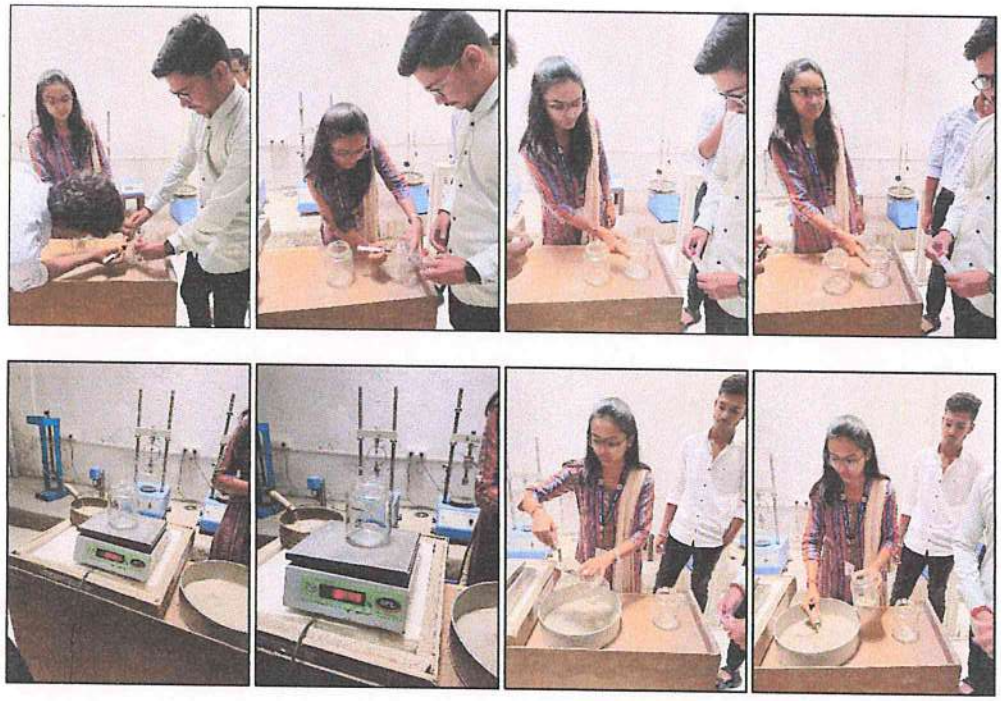
Result:

1. Container filled with loose soil having density 1.8gm/cc
2. Container filled with compacted soil having density 2.833gm/cc

Conclusion:

The soil by compacting increases the density of soil and decreases the pores/voids with same volume as compared to loosely filled soil.

Photo:



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Prof. Gayatri C. Sherkar

Retd. Lt. Col. Sanjay Karodpati

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Civil Engineering
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***** END OF REPORT*****

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Date: 07/05/2023

Event Report

Academic Year: 2022-23 **Semester-II**

Name of Event: A guest lecture on 'Advanced Pile Testing'

Date of event: 04/05/2023

Time: 10:30 am to 12:30 pm

Speaker: Mr. Siddhartha Kulkarni (Ex. Director, Soiltect India Pvt.Ltd.)

Event contents:

- Importance of soil investigation
- Different methods to investigate different properties of soil
- Importance of pile test, equipment and its procedure

Programme Outcome:

1. Students understood different types of foundation
2. Students understood different soil investigation methods
3. Students understood pile tests, pile integrity test, its importance, procedure, equipments to be used.

Details of the Event:

IGS student chapter at Ajeenkya DY Patil School of Engineering, Lohgaon Pune was inaugurated under Indian Geotechnical Society-Pune chapter on 4th May, 2023. The guest lecture on "Advanced Pile Testing" was also organized by the Department of Civil Engineering, Ajeenkya DY Patil School of Engineering, and Lohgaon Pune on this occasion at Seminar hall (Room no. 242) ADYPSOE, Pune. On this occasion, Dr. Kamaljeet Kaur, Director ADYPSOE, Pune and Dr. F.B. Sayyad Principal ADYPSOE, Pune was the Petron of the event and presided over the function and welcomed the gathering with their motivational inspiring words. Er. Vikas Patil, Chairman IGS Pune chapter, Er. Ramesh Kulkarni, past chairman, mentor of IGS Pune chapter and CMD soiltech Pvt. Ltd., Er. Ramesh Kulkarni, Hon. Secretary IGA, Pune chapter, Prof. Deepali Kulkarni IGS Committee member, Er. Siddhartha Kulkarni, Ex. Director Soiltech India Pvt. Ltd, Pune were the chief guests and inaugurated IGS student chapter with the dignitories on the dias by lamp lighting & guest lecture on 'Advanced Pile Testing'. Prof. Lt. Col Sanjay Karodpati (Retd.), Head Civil Engineering Department, talked about the objectives and importance of IGS student chapter followed by Principal and Director of ADYPSOE, Pune addressed the students and faculties. Prof. Suman Jain, Hon. Secretary IGA, Pune chapter and Er. Ramesh Kulkarni, past chairman, mentor of IGS Pune chapter and CMD soiltech Pvt. Ltd. gave the information about activities of IGS Pune chapter. All the Heads of Department were

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present in the inauguration function and grace the occasion. All the faculty members of Civil Engineering and second year, third year students attended the program. 23 IGS student members (UG) with 20 students and 20 faculty participants from ADYPSOE, Pune attended the program and enriched their knowledge. The inauguration function ended by the vote of thanks presented by IGS Student secretary Mr. Harshal Thale followed by event group photograph. After the inaugural session, the technical sessions were delivered by Er. Siddhartha Kulkarni shared his knowledge on advanced pile testing with students and faculties as a guest lecture. The programme was ended with valedictory function in which certificate of IGS Student Chapter Pune in name of Ajeenkya DY Patil school of Engineering Lohgaon Pune were given to Head of the Civil Department by Er. Ramesh Kulkarni, Er. Ramesh Kulkarni, Er. Vikas Jain Prof. Deepali Kulkarni.

Prof. Gayatri C. Sherkar

Retd. Lt. Col. Sanjay Karodpati

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Civil Engineering
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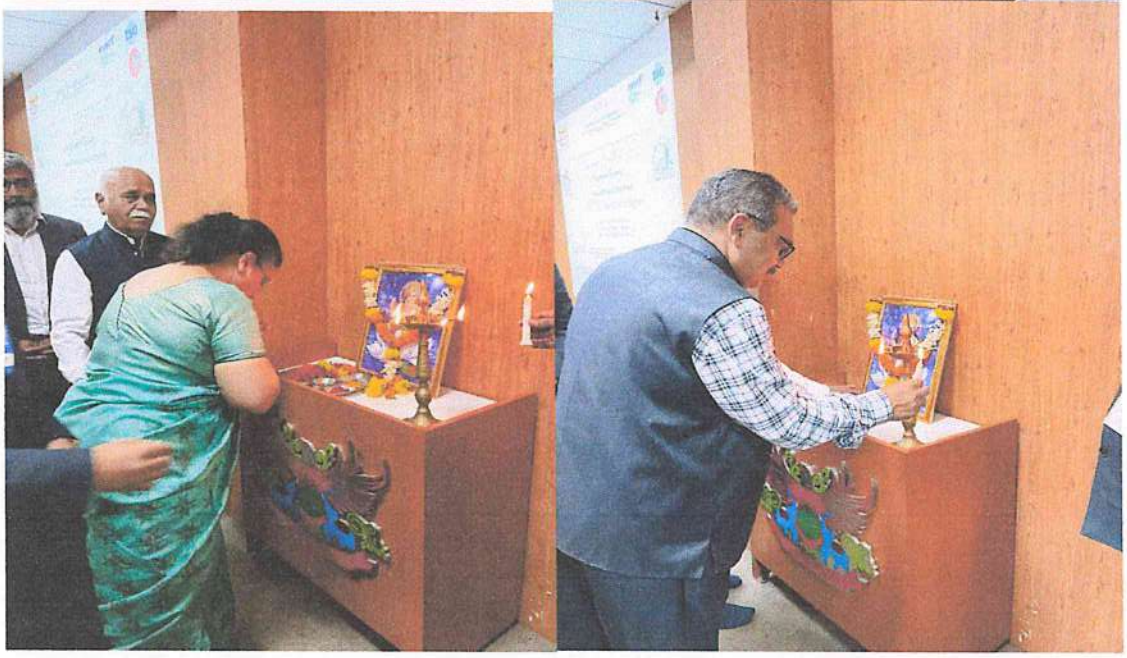

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BEST PRACTICE II - REPORT

Geotechnical Engineering Quiz

Class : SE Civil

Timestamp	Username	Total score	Name of st	Name of st	Name of st	Roll No.	Roll No. [Sc	Roll No. [Fi	Division	Division [Sc	Division [Fi	The soilâ€¦	The soilâ€¦	The soilâ€¦	The range	The range	The range	Which of tl	Which of tl	Which of tl	Which of tl	Which of tl	Which of tl	On a very r	On a very r
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2023/05/1	rajnandinis	7.00 / 10	Rajnandini	-- / 0		34	-- / 0		C	-- / 0		c. equal to	-- / 1		d. 0.075 to	-- / 1		a. liquid lin	1.00 / 1		c. vibratory	1.00 / 1		d. decreas	1.00 / 1
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2023/05/1	priyankapa	6.00 / 10	Priyanka Si	-- / 0		9	-- / 0		C	-- / 0		a. always e	-- / 1		d. 0.075 to	-- / 1		a. liquid lin	1.00 / 1		d. All of thi	0.00 / 1		d. decreas	1.00 / 1
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2023/05/1	patolepratl	6.00 / 10	Prathmesh	-- / 0		11	-- / 0		C	-- / 0		c. equal to	-- / 1		d. 0.075 to	-- / 1		a. liquid lin	1.00 / 1		c. vibratory	1.00 / 1		d. decreas	1.00 / 1
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2023/05/1	balajidudd	8.00 / 10	Balaji dilip	-- / 0		25	-- / 0		B	-- / 0		c. equal to	-- / 1		d. 0.075 to	-- / 1		a. liquid lin	1.00 / 1		c. vibratory	1.00 / 1		d. decreas	1.00 / 1
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2023/05/1	harshadam	7.00 / 10	Mhasade H	-- / 0		48	-- / 0		B	-- / 0		c. equal to	-- / 1		d. 0.075 to	-- / 1		a. liquid lin	1.00 / 1		c. vibratory	1.00 / 1		d. decreas	1.00 / 1
2023/05/1	vishalvarat	5.00 / 10	Vishal Ank	-- / 0		44	-- / 0		C	-- / 0		b. equal to	-- / 1		d. 0.075 to	-- / 1		a. liquid lin	1.00 / 1		d. All of thi	0.00 / 1		d. decreas	1.00 / 1
2023/05/2	shubhamk	8.00 / 10	Kushwaha	-- / 0		44	-- / 0		B	-- / 0		c. equal to	-- / 1		a. 0.425 to	-- / 1		a. liquid lin	1.00 / 1		c. vibratory	1.00 / 1		d. decreas	1.00 / 1

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	Compressil	1.00 / 1		A Two pha	1.00 / 1		21.93 kN/r	1.00 / 1		A equal to	1.00 / 1		D equal inc	1.00 / 1	
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Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105.
Department of Civil Engineering
Form No. IQAC/23 (a)

Date: 07/06/2023

Best Practice I Event Report

Academic Year: 2022-23 **Semester-II**

Name of Event: Group Discussion on Index Properties of soil

Date of event: 16/06/2023

Time: 10:30 am to 12:30 pm

Event contents:

- Importance of soil properties
- Different index properties of soil their formulae, revision
- Importance of soil index properties

Programme Outcome:

- Students understood importance of soil properties
- Students understood different index properties of soil their formulae, revision
- Students understood Importance of soil index properties

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SOIL INVESTIGATION REPORT

PROJECT

GEOTECHNICAL INVESTIGATION FOR PROPOSED WINDMILL FOUNDATION AT LOCATION **JDA-13** AT BALNABA VILLAGE, BHUJ-KUTCH

CLIENT

M/S SUZLON INFRASTRUCTURES SERVICES LTD

PROJECT NO.

GTH/SRBH-2010 /SUZLON/JDA-13, DT: 08/04/2010

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3.	LABORATORY TESTING	5 of 14
4.	DISCUSSION ON FIELD AND LABORATORY TESTS	11 of 14
5.	SAFE BEARING CAPACITY	12 of 14
6	CONCLUSIONS AND RECCOMENDATIONS	14 of 14
7.	ANNEXURES	
I	BORELOG	Plate - 1
II	SUMMARY OF TEST RESULTS	Plate - 2
III	SAFE BEARING CALCULATION	Plate – 3
IV	SETTLEMENT ANALYSIS CALCULATION	Plate - 4

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1.0 INTRODUCTION

Sub surface investigation and laboratory tests for proposed Wind Foundation project was referred to us by Suzlon Infrastructures Services Ltd.

The objective of the exploration work was to determine the probable sub surface conditions such as stratification, denseness or hardness of the strata, position of ground water table etc. and to evaluate probable range of safe bearing capacity for the structure. To fulfill the objective, the work carried out is comprises of:

- Drilling one borehole up to the depth of 10.0m below existing ground level in order to know the sub surface stratification, conducting necessary field tests and to collect disturbs and undisturbed soil samples for laboratory testing.
- Testing soil samples in the laboratory to determine its physical and engineering properties of the soil samples, and
- Analyzing all field and laboratory data to evaluate safe bearing capacity of the soil for given foundation sizes and necessary recommendations for foundation design and construction.

The structure is located at JDA-13 Location near Balnaba Village, Bhuj

2.0 SUB SURFACE EXPLORATION

The actual investigation work was started on 18/02/2010 and was completed on 19/02/2010.

2.1 Drilling

One borehole of 150mm diameter is drill up to the depth of 10.0m. Where caving of the borehole occurred, casing was used to keep the borehole stable. The work was in general accordance with IS: 1892 – 1979. The borehole is located at the center of the wind mill foundation.

2.1.1 ***Disturbed Samples:*** Disturbed representative samples were collected, logged, labelled and placed in polythene bags.

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2.1.2 ***Undisturbed Samples:*** Undisturbed soil samples are collected in 100 mm diameter thin walled sampler (Shelby tube) from the borehole. The sampler used for the sampling had smooth surface and appropriate area ratio and cutting edge angle thereby minimizing disturbance of soil during sampling. Samples are logged and labelled properly and transfer to the laboratory for further testing.

2.1.3 ***Water Table:*** Water table was encountered during the sub soil exploration work carried out in the month of February 2011.

2.1.4 ***Method of Sampling:*** Sampler is coupled together with a sampler head to form a sampling assembly. The sampler head provide a non-flexible connection between the sampling tube and the drill rods. Vent holes are provided in the sampler head to allow escape of water from the top of sampler tube during penetration. The sampling tubes are made free from dust and rust. Coating of oil is applied on both sides to obtain the undisturbed samples in best possible manner.

The sampler is then lowered inside the bore hole on a string of rods and driven to a pre-determined level. On completion of driving the sampler is first rotated within the borehole to shear the soil sample at bottom and then pulled out. Upon removal of the sampling tubes, the length of sample in the tube is recorded. The disturbed material in the upper end of the tube, if any, is completely removed before sealing.

The soil at the lower end of the tube is trimmed to a distance of about 10 to 20 mm. After cleaning and inserting an impervious disc at each end, both ends are sealed. The empty space in the sampler, if any, is filled with the moist soil, and the ends covered with tight wrapper. The identification mark is then made on each sample.

2.2 Standard Penetration Test

The standard penetration tests are conducted in each bore as per IS: 2131: 1981 (Reaffirmed 2002). The split spoon sampler resting on the bottom of bore hole is allowed to sink under its own weight, then the split spoon sampler is seated 15 cm with the blows of hammer falling through 750mm. The driving assembly consists of a driving head and a 63.5 kg weight. It is ensured that the energy of the falling weight is not reduced by friction between the drive weight and the guides or between ropes. The rods to which the sampler is attached

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for driving are straight, tightly coupled and straight in alignment. Thereafter the split spoon sampler is further driven by 30cm. The number of blows required to drive each 15cm penetration is recorded. The first 15cm of drive considered as seating drive. The total blows required for the second and third 15cm penetration is termed as a penetration resistance - N value. The N-values for each bore hole are given in bore logs attached as Plate 1.

3.0 LABORATORY TEST

The laboratory tests on soil samples were started immediately after the receipt of the same in the laboratory. Following laboratory tests are carried out to determine the physical and engineering properties of undisturbed and disturbed soil samples.

1. Dry density and moisture content (IS 2720 part – 2 & 29)
2. Particle size analysis – (IS 2720 part – 4 1985)
3. Atterberg's limit - (IS 2720 part – 5 1985)
4. Specific gravity - (IS 2720 part – 3/sec2 1980)
5. Shear test - (IS 2720 part – 11 1986)
6. Consolidation test – (IS 2720 part – 15 1986)
7 Free swell and Swell pressure test - (IS 2720 part – 40 1977, part – 41 1977))

All laboratory tests are carried out as per the respective Indian Standards.

3.1 Field Dry Density & Natural Moisture Content

The weight of undisturbed soil sample with sampler (Shelby tube) is determined after removing paraffin wax and loose soil. The total length of soil sample recovery is determined after deducting empty length from the total length of sampler. The volume of soil mass retained in sampler is thus determined from the known inside diameter of sampler and total length of soil mass. The soil mass is then removed and the average moisture content is determined by keeping the soil sample along with crucible in oven at 100-105 degree centigrade for 24 hours. The empty weight of the sampler is then found out. From the total weight of sampler with soil mass, the weight of empty sampler is deducted. The field density is then found out as

$$\text{Field density (bulk)} = \frac{\text{weight of soil mass}}{\text{volume of soil mass}}$$

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And, Field dry density $= \frac{\text{Field bulk density}}{1+w}$

Where w is water content.

3.2 Particle Size Analysis

The sieve analysis is carried out in accordance with IS: 2720 (Pt.IV). The results are presented in the form of Grain size distribution curve.

Representative soil sample is obtained from the bulk soil sample collected or received from site by method of coning and quartering. Quantity of soil taken will be dependent on the maximum size of particle size present in the soil. Sieve analysis is conducted in two parts:

1) Soil fraction retained on 4.75mm ISS

Soil portion retained on 4.75 ISS is weighed. The sample is then separated into various fractions by sieving through the following sieves:

100, 75, 19 and 4.75 mm ISS

While sieving through each sieve, sieve is agitated so that sample rolls in irregular motion over the sieve, at no time the particles are pushed through; Care is also taken to see that no individual soil particles are broken, though particles adhering one another are rubbed by rubber pestle when required. Care is also taken not to over load the sieve beyond the permitted maximum load for respective sieve.

The mass of the material retained on each sieve is recorded The percentage of soil retained on each sieve is then calculated on the basis of the total mass of soil taken and from these results, the percentage passing through each sieve is calculated.

2) Soil fraction passing 4.75 ISS

The portion of the soil passing 4.75 mm ISS is oven dried at 105 to 110 c. The portion is coned & quartered to obtain required representative quantity of the material. The material is weighed and placed in tray/bucket filled with water for soaking and loosening the adhered cohesive materials. The soaked soil specimen is then washed on 75 micron IS Sieve until

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the water passing the sieve is almost clear. The material retained on 75 micron IS Sieve is then transferred in a tray, dried in oven.

Sieve analysis is then conducted on a nest of sieves (viz. 2 mm, 425 and 75 micron ISS) either by hand or by using mechanical sieve shaker. The fraction retained on each of the sieves is weighed separately and masses recorded. Cumulative mass of soil fraction retained on each sieve is then calculated The weights are then converted into cumulative percentage retained and passing on the basis of the mass of the sample passing 4.75 ISS taken. The combined gradation on the basis of the total sample taken for analysis is finally calculated.

3.3 Atterberg's Limit

Liquid and plastic limits are determined by using procedure given in IS: 2720 (Pt-V). The results are given in result sheet. The weight of cone plus rod and plate is 148 gm. A soil sample weighing about 150gm from the thoroughly mixed portion of soil passing 425 micron was used for testing. The thoroughly wet soil paste is transferred to the cylindrical trough 150mm diameter and 50mm high of the cone penetrometer apparatus and leveled up to the top of trough. The penetrometer is adjusted such that the cone point just touches the surface of the soil paste in trough. The scale of the penetrometer is adjusted to zero and the vertical rod is released so that the cone is allowed to penetrate into the soil paste under its own weight. The penetration is noted after 30 sec. from the release of the cone. The reading is considered if the penetration reading is between 20mm and 30 mm. The moisture content of the soil paste corresponding to this is determined. The liquid limit of the soil which corresponds to the moisture content of a paste which would give 25 mm penetration of the cone is determined using formula:

$W_{LL} = Wx + 0.01 (25 - W) (Wx + 15)$

For determination of plastic limit, a soil sample weighing at least 20 gm from the soil sample passing 425micron IS sieve is thoroughly mixed with water such that it can be easily moulded with fingers. A ball is formed with about 8 to 10 gm of this soil & is rolled between the fingers and the glass plate with just sufficient pressure to roll the mass into a thread of uniform diameter of 3mm throughout its length. The soil is then kneaded together to a uniform mass and rolled again. The process is continued until the thread crumbles. The

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pieces of crumbled soil thread are collected and moisture content is determined and reported as plastic limit.

3.4 Specific Gravity

The specific gravity of soil solids is determined by a 50ml density bottle. The weight (W1) of the empty dry bottle is taken first. A sample of oven-dried soil about 10-20 g cooled in a desiccator, is put in the bottle, and weight (W2) of the bottle and the soil is taken. The bottle is then filled with distilled water gradually removing the entrapped air either by applying vacuum or by shaking the bottle. The weight (W3) of the bottle, soil and water (full up to the top) is then taken. Finally the bottle is emptied completely and thoroughly washed and clean water is filled to the top and the weight (W4) is taken.

$$\text{Specific Gravity (G)} = \frac{(W_2 - W_1)}{(W_2 - W_1) - (W_3 - W_4)}$$

3.5 Shear Test

Tri-axial (undrained) tests are carried out to determine the shear parameters. The shear tests are carried out in accordance with IS: 2720 (pt. X, XI, XII and XIII) on saturated samples. For unconsolidated undrained tri-axial compression test, the undisturbed soil specimen having diameter 38 mm and height to diameter ration 2 is prepared and placed on the pedestal of the tri-axial cell. The cell is then assembled with the loading ram and then placed in the loading machine. The cell fluid is admitted to the cell and the pressure is raised to the desired value. An initial reading of the gauge measuring axial compression of the specimen is recorded. The test is then commenced and sufficient number of simultaneous readings of load and compression measuring gauge being taken. The test is continued until the maximum value of the stress has been passed or until an axial strain of 20 per cent has been reached. Additional tests are carried out on identical specimen at confining pressure of 1 kg/cm^2, 2 kg/cm^2 and 3 kg/cm^2. The shear parameters are obtained from the plot of Mohr circles.

Direct shear test is carried out using shear box with the specimens (60mmx60mm). Specimen with plain grid plate at the bottom of the specimen and plain grid plate at the top of the specimen is fitted into position in the shear box housing and assembly

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placed on the load frame. The serrations of the grid plates are kept at right angle to the direction of shear. The loading pad is kept on the top grid plate. The required normal stress is applied and the rate of longitudinal displacement/shear stress application so adjusted that no drainage can occur in the sample during the test (1.25mm/min). The upper part of the shear box is raised such that a gap of about 1mm is left between the two parts of the box. The test is conducted by applying horizontal shear load to failure or to 20 percent longitudinal displacement whichever occurs first. The test is repeated on identical specimens.

3.6 Consolidation Test

The consolidation tests were carried out on undisturbed soil specimen in order to determine the settlement characteristics of soil at different depths. The tests were conducted in accordance to IS: 2720 (Pt-XV).

An undisturbed soil specimen is extruded to the consolidation ring of 60mm diameter. The edge is trimmed carefully such that the sample flushes with the top and bottom edges of the ring. The thickness of the specimen is measured and the weight is recorded. The bottom porous stone is then centered on the base of the consolidation cell.

The specimen is placed centrally between the bottom porous stone and the upper porous stone. A filter paper is provided in-between specimen and porous stones. Then the loading cap is placed on the top. The consolidometer is placed in position in the loading device and suitably adjusted. The dial gauge is then clamped into position for recording the relative movement between the base of the cell and the loading cap. A seating pressure of 0.05 kg/cm^2 is applied to the specimen. The cell is kept filled with water. After 24 hours the test is continued using a loading sequence on the soil specimen of 0.25, 0.5, 1.0, 2.0, 4.0, and 8.0 kg/cm^2. For each loading increment after application of load, readings of the dial gauge is taken using time sequence 0, 0.25, 1, 2.25, 2, 6.25, 9, 16, 25, 36, 49 ... up to 24 hrs. From the observations of all incremental pressure, void ratio versus log (pressure) curve is obtained. The slope of the straight line portion is designated as compression index cc.

3.7 Differential Free Swell Test

In order to determine the swelling characteristics of the soil, differential free swell test is carried out. An oven dried soil sample, 10 gm passing through 425 micron is poured in two

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100 ml graduated cylinders. One cylinder was filled with distilled water and another with kerosene up to 100 ml mark. After removal of entrapped air, sample was allowed sufficient time to attain equilibrium state of volume. The final volume of soil in each cylinder was recorded.

$$Sp = \frac{\text{Soil volume in water - soil volume in kerosene}}{\text{soil volume in kerosene}} \times 100$$

Where Sp = Differential Free swell (%)

The swell pressure tests are carried out at field dry density with zero percent moisture content and by constant volume method. An oven dry soil specimen is compacted into the specimen ring with the specimen kept in between two porous stone saturated in boiling water providing a filter paper between the soil specimen and the porous stones. The loading block is then positioned centrally on the top of the porous stone. The assembly is then placed on the platen of the loading unit. The load measuring proving ring is attached to the load frame and placed in contact with the consolidation cell without any eccentricity. A direct strain measuring dial gauge is fitted to the cell. The specimen is then inundated with distilled water and allowed to swell. The initial reading of the proving ring is noted. The swelling of the specimen with increasing volume is obtained in the strain measuring load gauge. The specimen is kept at constant volume by adjusting the strain dial gauge always at original reading. This adjustment is done at every 0.1mm of swell or earlier. The swell pressure is then calculated from the difference between the final & initial dial readings of the proving ring.

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4.0 DISCUSSION ON FIELD AND LABORATORY TESTS:

Sub soil Stratification: The field data and laboratory classification reveals in general, the proposed site is having single major layer up to depth of investigation i.e. 10.0m.
Layer I is Brownish Black Silty Clay of High Plasticity with Little Gravel
Layer II is Brownish Yellow Very Stiff Silty Clay of Medium Plasticity with Little Gravel
Layer III is Yellow Hard Silty Clay of Low Plasticity with Little Gravel

Standard Penetration Test: This test was conducted during the course of investigation work. From the bore logs it is inferred that the SPT ` N ' value increases with depth as shown below. Depth Vs N value graph is shown in Bore log.

Layer / Thk. Of Strata in mt.	Identification	Range of N	Consistency
II / From 0.3m to 5.1 m	Brownish Yellow Silty Clay	11-30	Very Stiff
III / From 5.1m to 10.0m	Yellow Silty Clay	>100	Hard

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5.0 SAFE BEARING CAPACITY:

Looking to the site conditions and sub soil stratification encountered and type of proposed project RCC Circular Raft Foundation is recommended along with safe bearing capacity at different depth. Intensity of bearable load determined as soil bearing capacity (SBC) and soil bearing pressure (SBP) on soil.

SBC BASED ON SHEAR: The ultimate net bearing capacity is evaluated after taking into consideration of shape factor and depth factor of the foundation in accordance with I.S. 6403-1981. The net bearing capacity worked out using the following equation. The sample calculation of Soil Bearing Capacity is attached in the report as Plate No.3

$$Q = C\,N_c\,S_c\,d_c + q\,(N_q - 1)\,S_q\,d_q + 0.5\,B\,\gamma\,N_r\,S_r\,d_r$$

Where, **C** = Cohesion

q = Overburden Pressure

γ = Density

B = Width of the Footing

N_γ, N_q, N_r = Bearing capacity Factor

S_c, S_q, S_r = Shape Factor

d_c, d_q, d_r = Depth Factor

5.1 Design Parameters for Shear and Settlement Criteria

Following parameters are adopted for the evaluation of bearing capacity for shallow foundation.

Properties	
Cohesion (kg/cm^2)	0.48
Angle of Internal Friction (Degree)	8
Dry Density (in gm/cc)	1.541
Specific Gravity	2.551
Coefficient of volume change (m_v)	0.0128
Factor of Safety	2.5
Void ratio, e (Computed)	0.655
Type of Shear Failure Considered	Intermediate

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Thus, intermediate shear failure was considered for safe bearing capacity computation. The net safe bearing capacity for various sizes of individual rigid footings having vertical static load intensity is evaluated as in Table -I. Settlement computed from Coefficient of volume change 'mv' for over consolidated clay as per I.S.8009, Part I for 100mm permissible settlement as shown in Plate-4.

TABLE- I, SAFE BEARING CAPACITY AND SAFE BEARING PRESSURE

FOUNDATION DETAILS			Safe Bearing Capacity **(SBC)** in t/m^2	Safe Bearing Pressure for 100 mm permissible **(SBP)** settlement in t/m^2	Recommended value of SBC for design of foundation in t/m^2
Type	Size (mtr.)	Depth (mtr.)			
RCC Circular Raft Footing	Dia=16.0	2.25	16.30	+19	**16.30**
		2.50	16.48		**16.48**
		3.00	16.85		**16.85**

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6.0 CONCLUSIONS & RECOMMENDATIONS

1. Sub soil stratification of proposed site up to depth of investigation is as below.
   From 0.0 to 0.3m: Brownish Black Silty Clay of High Plasticity with Little Gravel
   From 0.3 to 5.1m: Brownish Yellow Very Stiff Silty Clay of Medium Plasticity with Little Gravel
   From 5.1 to 10.0m: Yellow Hard Silty Clay of Low Plasticity with Little Gravel

2. Looking to the proposed type of project RCC Circular Raft footing is recommended along with their Safe Bearing Capacities considering factor of safety of 2.5 as shown in Table - I.

3 Safe Bearing pressure calculated for 100mm permissible as per I.S 8009 Part I for over consolidated clay as shown in Plate-4

4 Water table was considered in the analysis of SBC.

5 Suitability of Soil for back filling: The top layer of soil is of High swelling characteristic, which is not suitable for back filling purpose.

For **GEO TEST HOUSE**

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(Technical Manager)

BORE LOG (As per I.S. 1892 : 1979)	Plate No. 1
	BH - 01

Type of Boring : Mechanical/ Auger Drilling — Date of start : 18/02/2010

Diameter of Boring : 150mm, Depth 10.0mt — Date of Comp. 19/02/2010

Location : Proposed Project for Windmill Foundation (Location: JDA 13), Balnaba Village.

Water Table : 1.20 mtr

Depth in Mtr. from EGL.	Description of Strata	Soil Legend	Thk. Of Strata in Met.	Samples Type	Lab. No.	Depth in m	Standard Penetration Test 'N'	Depth V/s SPT Graph 15 30 45 60 75 90 105
0.0	Brownish Black Silty Clay of High Plasticity with Little Gravel		0.3				N	
0.5								
1.0				UDS	1	1.0		
1.5				SPT	2	1.5	11	
2.0								
2.5	Brownish Yellow Very Stiff Silty Clay of Medium Plasticity with Little Gravel			UDS	3	2.5		
3.0			4.8	SPT	4	3.0	16	
3.5								
4.0				UDS	5	4.0		
4.5				SPT	6	4.5	30	
5.0								
5.5				UDS	7	5.5		
6.0				SPT	8	6.0	100	
6.5								
7.0				UDS	9	7.0		
7.5	Yellow Hard Silty Clay of Low Plasticity with Little Gravel		4.9	SPT	10	7.5	100	
8.0								
8.5				UDS	11	8.5		
9.0				SPT	12	9.0	100	
9.5								
10.0				UDS	13	10.0		

UDS : Undisturb Sample

DS : Disturbed sample

N : SPT Value ——— N Value

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SUMMARY OF LABORATORY TEST RESULTS

Plate No. : 2

LOCATION NO. JDA-13

BH No. : 01

BH NO	Lab NO.	Depth IN M.	FDD gms/cc	FMC %	Grain Size Distribution G %	S %	M %	C %	Atterbergs Limit LL %	PL %	PI %	I.S. Classification	Shear Parameter C Kg/cm²	Shear Parameter ϕ Degree	Consolidation Cc	Consolidation Pc Kg/cm²	Specific Gravity	Free Swell %	Swell Pressure Kg/cm²
BH 01	1	1.0	1.535	18.65	5	27	68		41.7	21.3	20.4	CI					2.538	48	0.13
	3	2.5	1.541	17.20	8	21	71		44.3	22.7	21.6	CI	0.48	8			2.551		
	5	4.0	1.552	16.25	9	16	75		45.7	22.8	22.9	CI			0.088	0.82	2.548		
	7	5.5	1.578	14.25	10	29	61		31.3	19.3	12.0	CL					2.565		
	9	7.0	1.601	12.31	11	24	65		30.3	18.3	12.0	CL					2.568		
	11	8.5	1.625	13.10	8	34	58		29.2	18.5	10.7	CL					2.572		
	13	10.0	1.634	11.25	18	27	55		31.2	19.2	12.0	CL					2.578		

Abbreviations :

G - Gravel
S - Sand
M - Silt
C - Clay

L.L: Liquid Limit ;
PL: Plastic Limit ;
PI: Plasticity Index

FDD - Field Dry Density
FMC - Field Moisture Content
B.D. - Bulk Density

C - Cohesion (Shear test-UU)
Φ - Angle of Internal Friction
Cc- Compression Index
Pc - Pre consolidation pressure

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SAFE BEARING CAPACITY OF SOIL

Sample Calculation
Plate - 3

Shape of footing =	Raft		
Depth of footing D =	**2.25**	m	
Width of footing B =	**16.00**	m	
Length of footing L =	**-**	m	
Cohesion C =	**0.48**	kg/sq cm	
Angle of Int.Fric ϕ =	**8**	degrees	
Specific Gravity G =	**2.551**		
Inclination Angle α =	**0**	degrees	
Water Table Occurrence	**0.5**	Water table Considered	
Dry Density Yd =	**1.541**		
Sat.density Ysat =	**1.937**		
Submerged density=	**0.937**		
Factor of Safety =	**2.5**		
Void Ratio eo =	$\frac{G \times Yw}{Yd}$	**-1**	
=	0.6554	**it is > 0.55 & < 0.75**	
		hence it is an intermediate shear failure	

d, s, i	depth factor	shape factor	inclination factor
dc, sc, ic	1.032	1.000	1.000
dq, sq, iq	1.000	1.000	1.000
$d\gamma, s\gamma, i\gamma$	1.000	1.000	1.000

Φ' = **$Tan^{-1}(0.67 \tan \Phi)$**

= 5.38

Nc''	=	7.092	Nc'	=	0.00	Nc	=	0.000
Nq''	=	1.861	Nq'	=	0.00	Nq	=	0.000
$N\gamma$''	=	0.699	$N\gamma$'	=	0.00	$N\gamma$	=	0.000

qu = $cNcScdcic + q(Nq-1)\ Sqdqiq + 0.5\ B\gamma N\gamma S\gamma d\gamma i\gamma\ W'$

for general shear failure

= **0.00** **qs = 0.00** **t/m^2**

qu = $0.67cN'cScdcic + q(N'q-1)\ Sqdqiq + 0.5\ B\gamma N'\gamma S\gamma d\gamma i\gamma\ W'$

for local shear failure

= **0.00** **qs = 0.00** **t/m^2**

qu = $cN''cScdcic + q(N''q-1)\ Sqdqiq + 0.5\ B\gamma N''\gamma S\gamma d\gamma i\gamma\ W'$

for intermediate shear failure

= **40.75** **t/m^2** **qs = 16.30** **t/m^2**

31/5/23

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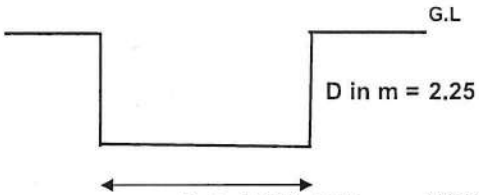
SETTLEMENT ANALYSIS OF SOIL

PLATE : 4



Sample Calculation

B = 16.00 mtr — Width of Foundation

H = 7.75 mtr — Total Thickness of compressible strata

L= 16.00 mtr — Length of foundation

L/B = 1

$D/\sqrt{LB}$ = 0.141

Assume pressure 19.84 t/m^2

1.98 kg/cm^2

Zi in m	Z = 2 x Zi in m	B / Z	L/Z	C	Influence factor I = 4 x C	Δ P = p x I Kg/cm²	H cm	mV, cm^2/kg	Settlement, mv x Δp x H cm	Depth factor	Rigidity factor	Soil factor	Final settlement, in mm
3.88	7.75	2.06	2.06	0.235	0.94	1.865	775	0.013	18.50	0.965	0.800	0.700	100.00
												Total Settlement, mm	**100.00**

at 19.84 t/m^2 pressure, settlement arrived is 100.00mm, which is equal to 100mm permissible settlement.
hence SBP recommended 19.84 t/m^2.

COEFFICIENTS FOR SOIL FACTOR AS PER IS : 8009 (Part I) - 1976	
VERY SENSITIVE CLAYS (SOFT ALLUVIAL, ESTUARINE AND MARINE CLAYS)	1.00 TO 1.20
NORMALLY CONSOLIDATED CLAYS	0.70 TO 1.00
OVER CONSOLIDATED CLAYS	0.50 TO 0.70
HEAVILY OVERCONSOLIDATED CLAYS	0.20 TO 0.50

Depth factor considered from Fig. 12 of IS : 8009 Part-1

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Prof. Gayatri. C. Sherkar

Best Practice – I

Competency Based Education and Assessment

Name of the faculty: - Mr. Arun .D. Sancpal

Name of the Subject :- Wastewater Engineering

Department: CIVIL

Class: T.E. Div: A

Competency Based Learning (Part A and Part B)

It is an active, adaptive, experiential and participatory learning where students' choice and voice are present in order to bring variety and variation in learning.

Note- Part A and B should cover latest developments, advancements, innovations and technologies in the subject domain.

{Select at least Three from each of Part-A & Part-B for every subject and map the outcome of activity}

Part A- Experiential Learning (Learning by Doing) (**Reference**: NAAC Manual Pg. 72)

Is a process of learning through experience and is more specifically defined as "learning through reflection on doing".

The following statements/ questions are related to the subject you teach in this semester

1. Is it possible to develop any prototype or model by the students related to the subject? Yes / No
   If Yes, mention the related UNIT No. ..... and Prototype Name - .....
2. Do you want to show any product demo to the students related to any topic / UNIT? Yes / No
   If Yes, mention the related UNIT No. ..... and Name of the Demo - .....
3. Do you want to assign any mini / major project to the students related to any topic? Yes / No
   If Yes, mention the related UNIT No. ..... and the Project Name- .....
4. Are you going to arrange any industrial / Field / Laboratory visit? Yes / No
   Name of Industry /Field/Lab visit - .....
5. Do you want to discuss a case studies related to the subject domain? Yes / No
   If Yes, mention the UNIT No. ...03..... and Title of the case study - .....

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6. Do you want to focus on any simulation/gaming based learning in the subject? Yes No

   If Yes, mention the UNIT No. ..... and Name of the Simulation/Game- .....

7. Do you want to assign any mentor from industry /company to the students so that they can understand the subject well? Yes No

   If Yes, Name of the mentor and Industry name – .....

8. Is there any student club at department /college level related to the subject domain? Yes No

   If Yes, Number of students to be enrolled to the club –

9. Do you want to conduct any workshop related to the subject domain? Yes No

   If Yes, Name of the workshop- ..... No. of students enrolled –

10. Do you want to invite any expert / guest from an industry related to the subject? Yes No

    If Yes, Name of the expert-..... Name of the Topic – .....

11. Do you want to empower the students to join an ad-on- course related to the subject? Yes No

    If Yes, Name of the Ad-on-courses available - .....No. of students to be enrolled –

12. Do you want to empower the students to join a skill and practical oriented courses related to the subject? Yes No

    If Yes, Name of the course available - .....No. of students to be enrolled –

13. Do you want to show a few videos on advances, latest development and technology in the domain or subject? Yes No

    If Yes, Number of Videos to be shown (maintain the record)-

14. Any course available for the students w.r.t the subject domain at different learning platforms like Udemy, Coursera, Skillshare, MasterClass, Edx, Udacity etc. Yes No

    Name of the courses -

Part –B Participative Learning (Learning by participating) (Reference- NAAC Manual Pg. 75)

Participatory Learning and Action is a family of approaches, methods, attitudes, behaviours and relationships, which enable and empower people to share, analyze and enhance their knowledge of their life and conditions, and to plan, act, monitor, evaluate and reflect.

1. Do you want to ask open ended questions in the domain? Yes No

   UNIT No.- ..... Question 1:- .....

   UNIT No.- ..... Question 2:- .....

   UNIT No.- ..... Question 3:- .....

2. Do you want to conduct group discussion/ Buzz sessions in the subject domain? Yes No

   UNIT No.- ..... Topic - .....

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UNIT No.- ..... Topic - .....

3. Do you want to use a question bowl approach in the discussion? Yes / No

   Topic- .....

4. Do you want to conduct news analysis with the help of student on any topic? Yes / No

   Unit No. ..01..,..... Example .....

5. Do you want to focus on peer learning w.r.t. the subject? Yes / No

   Unit No. ..... Example .....

6. Do you want to use survey methods with the help of student to understand any topic? Yes / No

   Unit No. ..... Example .....

7. Do you want to use Brainstorming session to understand the topic better? Yes / No

   Unit No. ..... Name of the Topic .....

8. Do you want to conduct a small scale research in the subject domain with the help of students? Yes / No

   Unit No. ..... Topic .....

9. Do you take any initiative with the help of the students to collect information related to a topic for better learning? Yes / No

   Unit No. ....05..... Topic .....packaged Sewage Treatment plant.

10. Is there any possibility of using a critical incident in the subject domain for better teaching and learning? Yes / No

    Unit No. ..... Incident .....

11. Do you want to use the approach of video viewing and discussion? Yes / No

12. Do you want to use any other participatory approach or method or game in teaching and learning? Yes / No

    Name of the approach /method/game - .....

Sign of Subject Teacher:

Mr. Arun Dhondiram Sarkpal

Sign of HoD

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Best Practice – II

Bridging the Gap between Education and Employment through Industry Connect

Name of the faculty: - Mr. Arun Dhondiram Sankpal

Name of the Subject: - Waste. Water Engineering ...Class: T.E..... Div: A.....

Sector of the industry Identified: - Waste. water treatment.

Name of the industry to be connected:- .....

Plan of Action (PoA):- {Select at least five for each subject and map the outcome of activity}

1. Do you want to sign Sign MoU with the industry? Yes / No Tentative date to sign the MoU:- ...../...../2023
2. Are there any hot topics, areas, trends, advances, technologies in the industry sector? Yes ✓ / No
   Mention Names- .....
3. Do you want to identify issues, problems and challenges in the industry? Yes / No
   List the issues.....
4. Do you want to conduct the product survey of the industry with the help of students? Yes / No
5. Do you want to let the students to understand the website of the industry? Yes ✓ / No
6. Do you want to arrange a physical visit to the industry? Yes ✓ / No
7. Do you want to arrange a virtual visit of the industry? Yes ✓ / No
8. Do you want to arrange a guest lecture? Yes ✓ / No
   Title of the guest lecture -.....
9. Is it possible to get sponsored project(s) from the industry for the final year students? Yes / No
10. Is it possible to get internship for the SE/TE students from the industry? Yes / No

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11. Do you want to write a conference paper/article on the best practices of the industry by involving students? Yes No

12. Do you want to arrange a hands-on workshop for the subject in collaboration with the industry?
Title of the workshop - ..... Yes No

13. Is there any skill development course available in the market w.r.t the subject? Yes No
Title of the course -

14. Are there any skilling, upskilling, reskilling or multiskilling trainings /workshops available at, NSDC/Skill India/Make in India for the subject? Yes No
Names of the courses –

15. Do you want to motivate the students to participate in National/international employability tests or exams in the subject? Yes No
Name of the tests - .....

Sign of Subject Teacher:

Arun. D. Sarkpal.

Sign of HoD

HOD
Civil Engineering
Ajeenkya DY Patil School of Et...
Lohegaon, Pune

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

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DEPARTMENT OF CIVIL ENGINEERING

Best Practice -I		
Competency Based Education and Assessment		
Name of the faculty	Mr. Arun Dhondiram Sankpal	
Name of the Subject	Waste Water Engineering	
Department	CIVIL ENGINEERING	
Class	TE CIVIL	Div: A
Part A	**Experimetal Learning**	
Activity 1: Q:2	**Product demo : of FLOTTWEG DECANTER CENTRIFUGES:**	

FLOTTWEG DECANTER CENTRIFUGES:

When solid/liquid mixtures with a high portion of solids need to be separated, decanter centrifuges are the solution of choice. In contrast to chamber filter presses, these solid shell scroll centrifuges or decanters operate continuously. High centrifugal forces separate the finely distributed solid particles from the suspension.

- NAME OF THE MANUFACTURER: Flottweg Separation Technology,Inc.
- **WEBSITE:** https://www.flottweg.com/contact/flottweg-worldwide/#usa

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• Product Demo YouTube Link: https://youtu.be/FhS5vN4r5LA	
Activity 2 Q:4	**Industrial Visit to Waste Water Treatment Plant:** • **21 MLD capacity Sewage Treatment Plant: SBR Charoli, Pune (Under the PCMC)**
Activity 3 Q:8	Related to subject domain club at department level : **"Environment Club"**
Activity 4 Q:8	Videos on Advancement,Latest Development,and Technology in the Waste water Engineering field • **Unit V: Emerging Treatment** • https://www.youtube.com/watch?v=PvsG8reXFcQ • https://www.youtube.com/watch?v=v8duIfw5SsQ • https://www.youtube.com/watch?v=w-fUE7W4S2M • https://www.youtube.com/watch?v=RW6jiE-K6rA • https://www.youtube.com/watch?v=tEPgpKqO9Ck • https://www.youtube.com/watch?v=pe-XGqL0AtI
Part B	**Participative Learning**
Activity 1: Q:1	Open ended questions related to Waste Water Engineering

Unit No: III:

- Draw the flow sheet of Secondary Treatment unit and explain the Unit operations involved in it.
- Explain the role of Micro-organism's in secondary treatment.
- Explain the term SVI and its significance in waste water engineering
- What is sludge bulking? Explain the causes and control measures for the same Discuss the operational Problem and maintenance in Activated Sludge Process

Unit No: IV:

- Explain the Biological principle of trickling filter with neat sketch
- Write short note on Rotating Biological Contractor (RBC)
- Explain the operational troubles in Trickling Filter:

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- Explain the biological phenomenon of bacteria - algae symbiosis in Oxidation pond:
- Explain the concept/Process microbiology of Aerated lagoon

Unit No: V: Anaerobic Tertiary and Emerging Treatment

- Explain the biological principle and working of Septic tank
- Explain the biological principle advantages & disadvantage, applications of Anaerobic lagoon:
- Explain the biological principle advantages & disadvantage, applications of (UASB) reactor
- Explain the biological principle/ advantages & disadvantage, applications of MBR
- Explain the biological principle/ advantages & disadvantage, applications of MBBR

Unit: VI

- Explain the construction working of Gravity thickener with its advantages/Disadvantages and application
- Explain the principle of anaerobic digestion, and stages of digestion
- Explain the factors governing anaerobic digestion process
- What are the different methods are used to disposal of the sludge
- What are the different ways/ Applications of Wastewater recycle and reuse:

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Activity 2: Q:4 | **News analysis with the help of student**

Lokmat Times

NEERI's step towards cleaner India

SHREYAS HOLAY
NAGPUR, AUG 10

Sushant Wath

The National Environmental Engineering and Research Institute (NEERI) seems to have come up with an effective solution for sanitation problems, especially in the rural parts of the country.

Senior scientist at NEERI Sushant Wath has developed a new technology that not only keeps urinals clean automatically, but also saves water. The system has been named Neerflush, and patented in US, Europe and South Africa.

Talking to Lokmat Times Wath said, "Maintaining cleanliness at public urinals and toilets has always been a daunting task for the authorities. It is because of the people who use these toilets."

He further said, "People in India generally do not flush public toilets for several reasons, which include lack of awareness, lethargy, unavailability of water or fear of contamination."

Neerflush is an automatic system that can become a vital component of Swacch Bharat Abhiyan

Neerflush system has been developed considering all these factors.

The senior scientist while elaborating the concept further said, "There are automatic flushing systems available in the market. But, they are too costly to install and maintain. Because of this, they cannot be installed at public urinals. At the same time, and average modern flusher uses up to 3 to 13 litres of water per flush."

Wath said according to European Union (EU) Eco Label Standard, only 1 litre of water was sufficient to flush a urinal after every use.

"Water scarcity is another major issue in many parts of India. Hence, we have designed Neerflush in a way that it consumes the minimum required quantity of water to maintain optimum cleanliness. The system is fully automatic. Hence, there is no chance of somebody leaving the tap open and water getting wasted," he said.

Moreover, the Neerflush system is a completely mechanical set up that does not require electricity or batteries to function. It is maintenance free, and can work for years together without having any issue.

Wath said that the system would play a vital role in the Swacch Bharat Abhiyan. He further said, "There is no need to install any special toilet seats for the system. The system is extremely modular, and can be installed anywhere very easily."

The research team of NEERI worked tirelessly for three years under the guidance Sushant Wath to develop this system.

"It took great effort to perfect the mechanism," Wath said adding that NEERI was now looking for cooperation to mass produce the system so that it could reach every part of the country.

Wath informed this newspaper that NEERI had also developed special pots to make the Neerflush system even more effective. "While the system works with every type of toilet, we found that the urinals or toilet seats being used is India are not particularly designed to conserve water. Hence, we have designed special urinal pots that make the system even more effective," Wath said.

Currently, NEERI is doing research on expanding the scope of the system, which can definitely be called a progressive step towards cleaner and healthier India. The project is being developed under CSIR-800. Dr Nitin Labhsetwar has coordinated project development.

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CITY NEWS | GO GREEN

Pimpri News : PCMC offers treated sewage water to citizens for multiple uses

BY PUNEPULSE APRIL 5, 2023 2 MONTHS AGO

Activity 3: Q:9	Students initiative in collecting the information on Phytoremediation Technology

PHYTORID WASTEWATER TREATMENT TECHNOLOGY

Information collected by student from:

- **CSIR-NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE**
- **NAME OF THE WEBSITE:** https://www.neeri.res.in/contents/banner_details/phytorid-wastewater-treatment-technology/5b193f6eaacd7#googtrans(en|en)
- Csir-neeri's technology involves a constructed wetland exclusively designed for the treatment of municipal, urban, agricultural and industrial wastewater
- The system is based on the specific plants, such as elephant grass (pennisetumpurpurem), cattails (typha sp.), reeds (phragmitessp.), cannas pp. And yellow flag iris (iris pseudocorus), normally found in natural wetlands with filtration and treatment capability. Some ornamental as well as flowering plants species such as golden dhuranda, bamboo, nerium, colosia, etc. Can also be used for treatment as well as landscaping purposes .
- The phytorid technology can be constructed in series and parallel modules / cells depending on the land availability and quantity of wastewater to be treated
- The phytorid technology treatment is a subsurface flow type in which wastewater is

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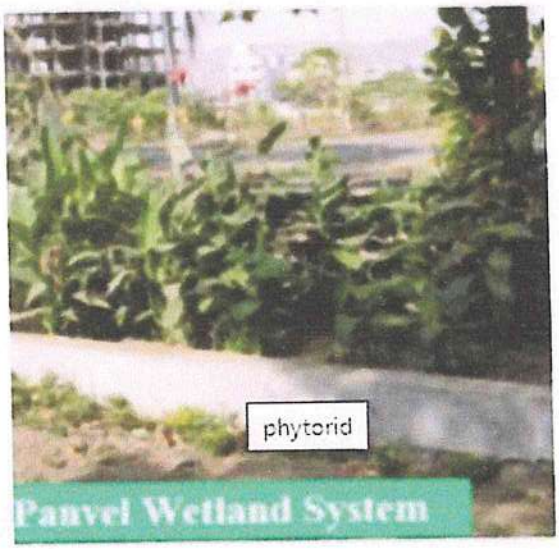
applied to cell / system filled with porous media such as crushed bricks, gravel and stones. The hydraulics is maintained in such a manner that wastewater does not rise to the surface retaining a free board at the top of the filled media

The system consists of the following three zones:

- Inlet zone comprising of crushed bricks and different sizes of stones
- Treatment zone consisting of the same media as in inlet zone with plant species
- Outlet zone
- The reduction in the treated effluent for the total suspended solids (tss) varied from 70% to 80, bod from 78% to 84%, nitrogen from 70% to 75%, phosphorus from 52% to 64% and fecal coliform from 90 % to 97%
- The treated effluent is useful for municipal gardens, fountains and irrigation
- The total area required for the system is approximately 35 sq. M. For 20 m3/day.
- This technology has been transferred to general techno services, technogreen environmental solutions, pune, biouma, goa and devi agencies, aurangabad, and implemented to save water and cater the local people



A view of the constructed wetlands

Activity 4: Q:11	**Approach of video Viewing and discussion:** **Unit I: Sanitation Infrastructure System** • https://www.youtube.com/watch?v=nvcD8oycnpg • https://www.youtube.com/watch?v=UpHOkHxpTvQ • https://globalizationandhealth.biomedcentral.com/articles/10.1186/1744-

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8603-6-12

- https://www.youtube.com/watch?v=eHAsuPVBwYM
- https://www.youtube.com/watch?v=sgiyx9aH4mg

Unit II: Preliminary and Primary Wastewater Treatment

- https://www.youtube.com/watch?v=aSTFFhk3tzM
- https://www.youtube.com/watch?v=XjEuWLr78b8
- https://www.youtube.com/watch?v=XjEuWLr78b8
- https://www.youtube.com/watch?v=DziIuzzSe5Y
- https://www.youtube.com/watch?v=rGVOKFqG9B0
- https://www.youtube.com/watch?v=l12Rc40PC8I

Unit III: Secondary Treatment: Aerobic

- https://www.youtube.com/watch?v=D41QGSLFwTQ
- https://www.youtube.com/watch?v=HPgjdEUfH0E
- https://www.youtube.com/watch?v=R9R9jYUvgSI
- https://www.youtube.com/watch?v=EZ8P5Dp1j2g
- https://archive.nptel.ac.in/courses/105/105/105105178/

Unit IV: Secondary Treatment: Aerobic Suspended and Attach Growth

- https://www.youtube.com/watch?v=BqS5d_44laU
- https://www.youtube.com/watch?v=Tt0wAmTDVgA
- https://www.youtube.com/watch?v=pXaXjzbccPo
- https://www.youtube.com/watch?v=2k0LPThXm4k
- https://www.youtube.com/watch?v=z-59Og-CbgQ
- https://www.youtube.com/watch?v=nKIdKpw0SDw
- **Unit V: Anaerobic Tertiary and Emerging Treatment**
- https://www.youtube.com/watch?v=PvsG8reXFcQ
- https://www.youtube.com/watch?v=v8duIfw5SsQ
- https://www.youtube.com/watch?v=w-fUE7W4S2M
- https://www.youtube.com/watch?v=RW6jiE-K6rA

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- https://www.youtube.com/watch?v=tEPgpKqO9Ck
- https://www.youtube.com/watch?v=pe-XGqL0AtI

Unit VI: Sludge Management System and Reuse of Water:

- https://www.youtube.com/watch?v=MKbsbvGjdLA
- https://www.youtube.com/watch?v=MKbsbvGjdLA
- https://www.youtube.com/watch?v=OcDOh4rtgb8
- https://www.youtube.com/watch?v=G6ojZp-yGn4

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Subject Incharge

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Best Practice -II

Bridging the Gap between Education and Employment through Industry Connect

Name of the faculty	Mr. Arun Dhondiram Sankpal	
Name of the Subject	Waste Water Engineering	
Department	CIVIL ENGINEERING	
Class	TE CIVIL	Div: A

Sector of the Industry Identified: Waste Water Treatment

Activity 1: Q:2	**Are there any hot topics , areas, trends, advances, technologies, in the industry sector**

Advance technologies available in market for treatment of Waste water

1- Membrane Bio-Reactor Technology – MBR

MBR, or Membrane Bio-Reactor Technology, combines the traditional activated sludge treatment process with filtration. A membrane acts as a barrier in this system, assisting in sludge separation and retaining all particle types and microbes, resulting in superior wastewater treatment objectives. Because, it is less expensive and uses less energy, an immersed process configuration of biomass rejection in MBRs is commonly used. It is a modern wastewater treatment technology that is more effective.

2- Moving Bed Biological Reactor – MBBR

The Moving Bed Biological Reactor (MBBR) is a high-performance, widely used biological treatment process, which combines the activated sludge and bio-filtration processes. This wastewater treatment method is extremely effective for industrial wastewater treatment.

The main advantage of MBBR is that it has a continuously moving biological reactor in which biomass grows, on plastic carrier elements with a higher density than water. The aeration system allows for constant movement.

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3- Sequencing Batch Reactors – SBR

In many ways, Sequencing Batch Reactors are similar to the activated sludge process. Unlike ASP, which uses multiple basins, the SBR system uses a single basin for all treatment steps such as filling of the basin with wastewater, react phase with mixing and aeration, settling of activated sludge, decantation process, and wasting, which removes a small amount of activated sludge.

4- UASB

Up flow Anaerobic Sludge Blanket (UASB) anaerobic digesters are popular and high-performance anaerobic digesters, for wastewater treatment. When compared to other anaerobic processes, it has 75% COD removal efficiencies, low operational costs, energy recovering technology, a low initial investment, easy maintenance, and a low energy requirement. Reducing energy consumption and maximizing efficiency, can also help to make wastewater treatment more cost-effective.

5- Filtration

The addition of chemicals to promote coagulation and flocculation can remove both suspended and colloidal solids. Following the formation of the flocs, the solution is directed to a settling tank where the flocs are allowed to settle. hile, the majority of the flocculated material settles in the settling tank, some floc does not. These flocs are removed during the filtration process, which is typically performed using porous media beds, such as sand or coal.

The current trend is to use a mixed-media filter with fine garnet in the bottom layer, silica sand in the middle layer, and coarse coal in the top layer to reduce clogging.

Activity 2: Q:3	**Issues ,problems, challenges in Waste water management**

WASTEWATER MANAGEMENT

Wastewater treatment systems are designed to treat used water so it can be recycled safely and put back into the environment. Advances in technology have begun to make these processes more streamlined than ever. These advances do not mean that there are not challenges to overcome when it comes to wastewater management.

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ENERGY USAGE

- Energy requirements necessary to operate a wastewater treatment plant is one of the biggest challenges they face. The wastewater filtration process consumes between 3 and 15% of the nation's electricity annually.
- Many wastewater treatment plants need upgrades throughout the United States. Here are some of the biggest challenges ahead and some potential solutions to fix them.
- Recently efforts have been focused on discovering greener approaches to treating wastewater. By incorporating greener processes, we can reduce energy consumption and lessen the overall strain to the power grid.

STAFFING ISSUES

- Similar to other industries, finding qualified plant operators has become a challenge. Properly trained workers skilled in the process of wastewater treatment is a must. There are not enough employees to go around. Another aspect of this issue is that typically treatment facility operator management can account for up to 30% of annual operational costs.
- Finding ways to incorporate automated processes and remote operation tactics may help. Such improvement will help reduce the reliance on employees as well as labor hours needed. It may not fill in the gaps in employment needs or reduce all operation costs, but it would lower the stress and burden on existing employees and budgets.

SLUDGE PROTECTION

- Sludge is the residue generated during wastewater treatment. A major challenge environmentally for wastewater treatment facilities is how to dispose of this excess sludge produced during the process.
- Safe and long term solutions for sludge disposal is an essential component of any properly operating treatment facility. Sludge can be recycled and used in agricultural applications because it contains organic matter and nutrients useful to agriculture.

TREATMENT PLANT ENVIRONMENTAL FOOTPRINT

- Though wastewater treatment plants are designed to filter water and make it eco-friendly, they can leave their own environmental footprint from the treatment process. In simplest terms, the organic matter removed from the water needs to go somewhere.
- There have been recent improvements in green technology that improve the way water is being treated. These innovations will help reduce the environmental footprint left behind by water treatment facilities from disposal of what is left behind after clean water has

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been discharged.

- These are, by far, not the only challenges facing treatment facilities and the process of wastewater management. These particular areas are the most glaring and most impactful. We recognize the many issues facing local municipalities and private industry when it comes to wastewater management. BE Structural is here to help find innovative ways to address these challenges with engineering services for wastewater treatment facilities and large equipment supporting biosolid technology.

Activity:3 Q:4	**Product survey of the industry with the help of students**

P. P. Aquatech, Delhi, India

- Website: https://www.ppaquatech.net/corporate-brochure.html
- Block C, Vishwakarma Colony, Pul Pehlad Pur, New Delhi, Delhi 110044
- **Product Video Link:**
- ppaquatech.net/corporate-video.html#productvideos
- https://www.ppaquatech.net/corporate-video.html#productvideos

Tube Settler Media

Settler Deck Media
Settling Tanks Media
Tube Settler Media PPAPL

Water Filter Nozzles

Water Filter Nozzle
Ring Type Filter Nozzle
SG water Filter Nozzle

Waste Water Treatment Equipment

Diffuser for Waste water treatment plant ETP & STP
Microbial Commissioning Culture

sewage treatment plant

Moving Biological Contractor
Packaged Sewage Treatment Plant
Sludge Decanter Centrifuge

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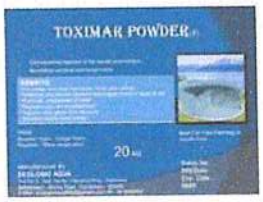
Settling Media

Tube Settling Media
Lamella Tube Settler Media
Tube Lamella Media

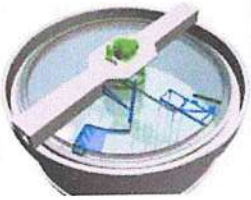


Aquaculture Fish pond Aeration System

Toximer Powder For Fish - Ecologic Aqua
Pond Diffuser PPA-DD-12
PU FINE BUBBLE DIFFUSER

MBBR MEDIA

MBBR Bio Pac Media
Bio PAC Media for Effluent Treatment
PP aqua Bio tower packing



Surface Aerator

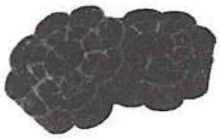
Solid Contact Clarifiers
Clarifier With Scraper Mechanism
Agitator Mixture for Rashmixer

AQUACULRUTE FISH FARMING

Aquaculture Bio Media
Mepple EM Solution
Nano Air Bubble Diffuser

Sewage Treatment Equipments

Bio Culture Em Solutions
MECHANICAL SCREEN FOR Water Treatment Plants
STP Equioments



Biofilter Media

Bio Fill Pac Media
Trapezoidal Cylindrical Bio PAC Media
Random Bio Media

PALL RING MEDIA

Metal Tower Packing
Ceramic Pall Rings
Pall Ring Media

Aeration System

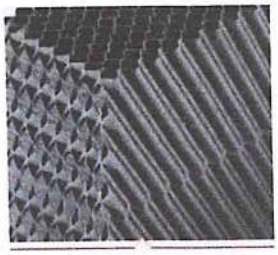
Fine Bubble Air Diffuser
Tube Diffuser
Aeration Tube

AIR BLOWER

HVAC Air Diffuser
Twin Lobe Air Roots Blower
PP Aqua Root Blower

Bio Submerzed Media

Submersed Aerobic Fixed Film (SAFF) Media
Bio Submerged Media
Bio Deck Media



Trickling Filter Media

Bio Tower Media
Trickling Media
Trickling Filter Media

Activity:4 Q:5	**Do you want to let the students to understand the website of the industry**

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SAMRUDDHI WATERWORKS PRIVATE LIMITED

Website of Industry: http://www.samruddhiwaterworks.com/sewage-treatement.htm

Sewage Treatement

Samruddhi provides a wide range of sewage treatment plants (STPs) which are designed & engineered suiting raw & treated sewage parameters. The biological degradation process occurs through total oxidation, suspended and attached growth treatment techniques. The biological process removes organic substances by using mechanisms similar to those of natural self – depuration based on demolition action of specific aerobic bacterial strains whose activity is directly proportional to water natural oxygenation degree.

Microorganisms in biological reactor use organic soluble matter in sewage as food. The biomass development and consumption requires only nutrients (coming from raw sewage) and oxygen. We also offer anaerobic processes as per client demand. We have researached & combined Various aeration equipments which have high OTR (Oxygen Transfer Rate) reducing energy consumption upto 50%.

We offer following technologies in sewage treatment.

- **Prefabricated & Packaged STPs**
- **CASP (Conventional Activated Sludge Process)**
- **MBBR/FAB (attached growth) based STPs**
- **SBR (Sequencing Batch Reactor)**
- **MBR (Membrane Bioreactor)**
- **SAFF (Submerged Aerobic Fixed Film)**
- **RBC (Rotating Biological Contactors**
- **Salient, Smell free & Energy efficient STPs**
- **Root Zone & Anaerobic Process STP**

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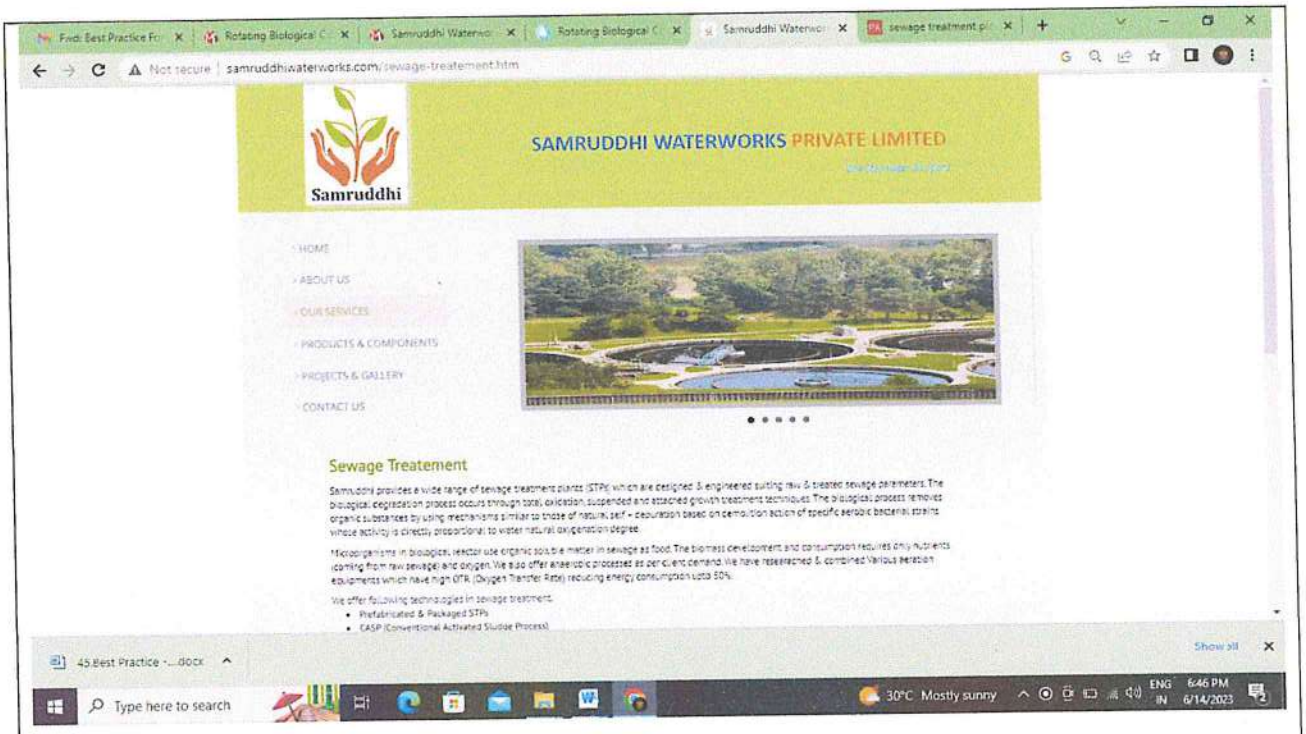

Activity:5 Q:13	**Following are the skill development courses available in market**

A)Environmental Assessment:

SimaPro or GaBi - for Life Cycle Assessment, Assessing Carbon Footprints
STAN : To compute material flow analysis (MFA)
WebHipre: (online open source) for Multi-criteria decision analysis (MCDA)

B) Water or Wastewater Modelling:

Water gems, sewer gems, Matlab, Statistica, Berkeley Madonna, Microsoft Excel type of software could be used for mathematical modeling, statistical analysis, solving differential equations, etc.

C) Air Pollution modelling:

R package, Matlab, Microsoft Excel,

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	D) Environmental data, measuring, monitoring and planning: ArcMap 10: Geographical Information System (GIS) software. qGIS : Open source GIS software LEAM : Land use evolution and Impact assessment model
Activity:6 Q:14	**NSDC Following courses are available:** NSDC or the National Skill Development Corporation is a highly reputed skill development organization that has made its way into the hearts of many students, professionals, and working professionals. The NSDC online free courses and Skill India courses free with certificates, which are created by NSDC, are also very well-known in the online world. National Skill Development Corporation courses and NSDC certificate programmes are all about giving you the knowledge and tools you need to thrive in the job sector.
Activity:6 Q:14	**Soil & Water Testing** **Soil & Waste water Testing** **Bar Bender and Steel Fixer** **Waste water treatment plant technician**

Mr. Arun. D. Sankpal
Subject Incharge

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Department of Civil Engineering
Form No. IQAC/23 (f)

Date: 26th April 2023

Visit Report

Academic Year: 2022-2023 **Class: TE: A+B+C** **Semester: VI**

Name of the Event: Site visit to **Sewage Treatment Plant (SBR type)** Charoli, Pune

Date and Time	26th April 2023 From 10am onwards
Event Venue	**21 MLD capacity Sewage Treatment Plant: SBR Charoli, Pune (Under the PCMC)**
Capacity of plant	**First Phase: 21 MLD + second Phase: 20 MLD**
Organized by	Department of Civil Engineering
Targeted Audience	180
Resource Person	**Prof. Arun Sankpal, Prof. Sarika Thombare**

Event Contents:

- Visit to study various units of Sewage Treatment Plant

Program Outcome:

1. Students are able to understand the different unit operations involved in Waste Water Treatment Plant.
2. Students are able to understand the Process of Preliminary and primary unit operations like Screening, Primary clarifier, Grit Chamber etc
3. Students are able to understand the Principle of Biological treatment and unit operations involved in the secondary biological treatment
4. Students are able to understand process of Disinfection, treatment of sludge, reuse of sludge and treated waste water

Prof. Arun Sankpal,
Prof. Sarika Thombare
Site Visit Coordinator

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Prof. Lt. Col. S. M Karodpati (rtd.)
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Following are the various unit operations carried out at visited Waste Water Treatment Plant:

1. Receiving Chamber.
2. Coarse Screen.
3. Wet Well.
4. Fine Screen.
5. Mechanical grit chamber.
6. S.B.R. unit.
7. Centrifugation unit.
8. Chlorine contact tank.

1. Receiving Chamber:

Receiving chamber is the first unit where the whole waste water from sewer is first collected in the receiving chamber.

The receiving chamber is designed for the peak flow condition.

The detention time of the receiving chamber is 30 sec.

The main function of the receiving chamber is the to collect the waste water and reduce its velocity before transferring the flow to the next unit.

Waste water contributing areas : Alandi, Charoli, Moshi and Pride World City

Figure: Inlet Chamber of Treatment plant where the sewage collected from area of PCMC like Charholi, Nirgudi, Alandi, Pride world city etc

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2. Coarse Screen:

Mechanical coarse screen is provided at the visited plant

The Ultra sonic transmitters are provided at the top and bottom and the head loss is measured .Depending upon the head loss the screens automatically starts for working.

The maximum head loss is the 300 mm, when it reaches this limit it automatically starts working.

The floating matter, debris, are removed by the coarse screen, and conveyed towards the conveyer belt from the conveyer belt it is transfer to the small cart and finally disposed to the in municipal solid waste for landfilling.

3. Wet well:

After passing flow through the screen then it is diverted towards the wet well where it is stored and by means of the pump it is pumped out taken to the grit chamber.

The total three numbers of pumps having the capacity 120 HP , of 90KW are provided in the wet well. Depending upon the flow the no of pumps is operated.

4. Fine Screen:

The mechanical operated step type screens are provided at the visited site.

The 2mm thickness bars are provided at centre to centre 5mm distance which effectively removes the particle size up to 6mm size flowing matter from the waste water.

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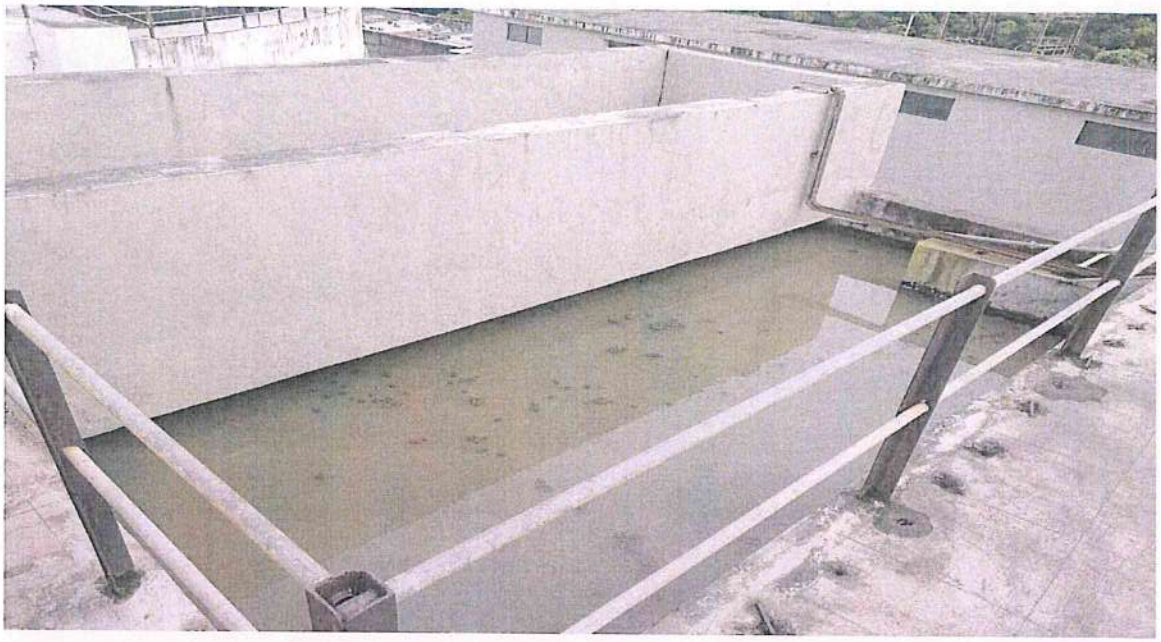
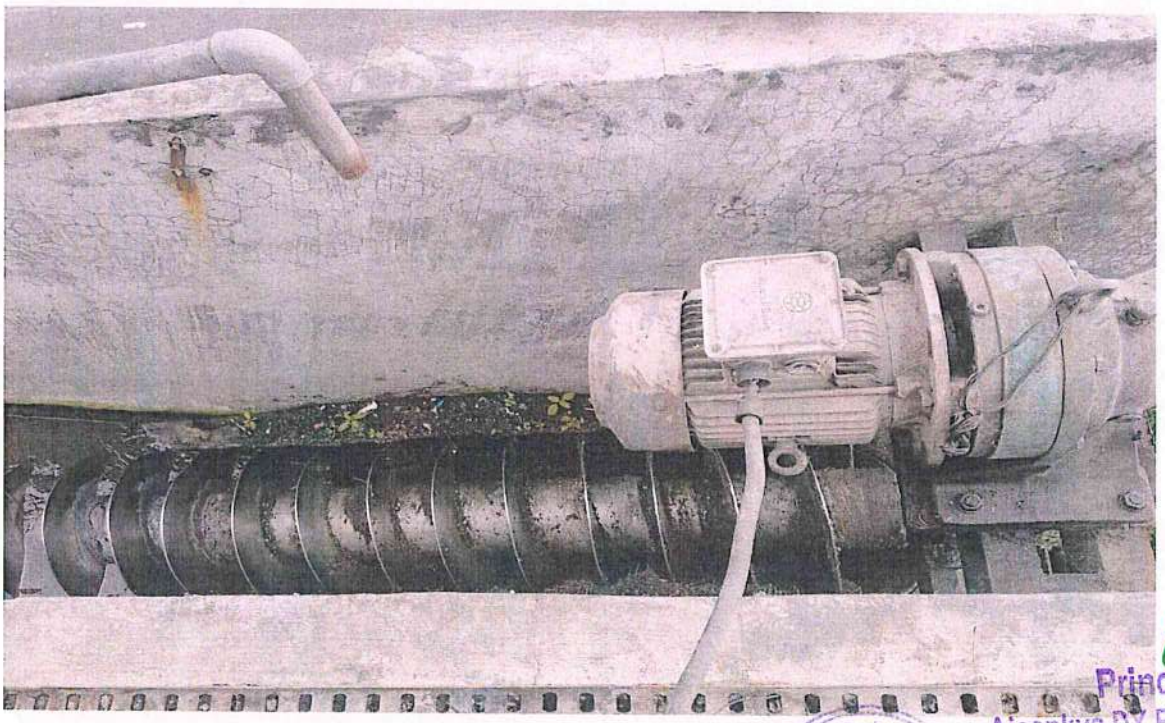
5. Mechanical grit chamber:

Grit chambers are basin to remove the inorganic particles to prevent damage to the pumps, and to prevent their accumulation in sludge digestion process.

At the visited plant the mechanically operated grit chamber are provided.

In mechanically cleaned grit chamber, scraper blades collect the grit settled on the floor of the grit chamber. The grit so collected is carried towards the screw type grit removal system and it is removed.





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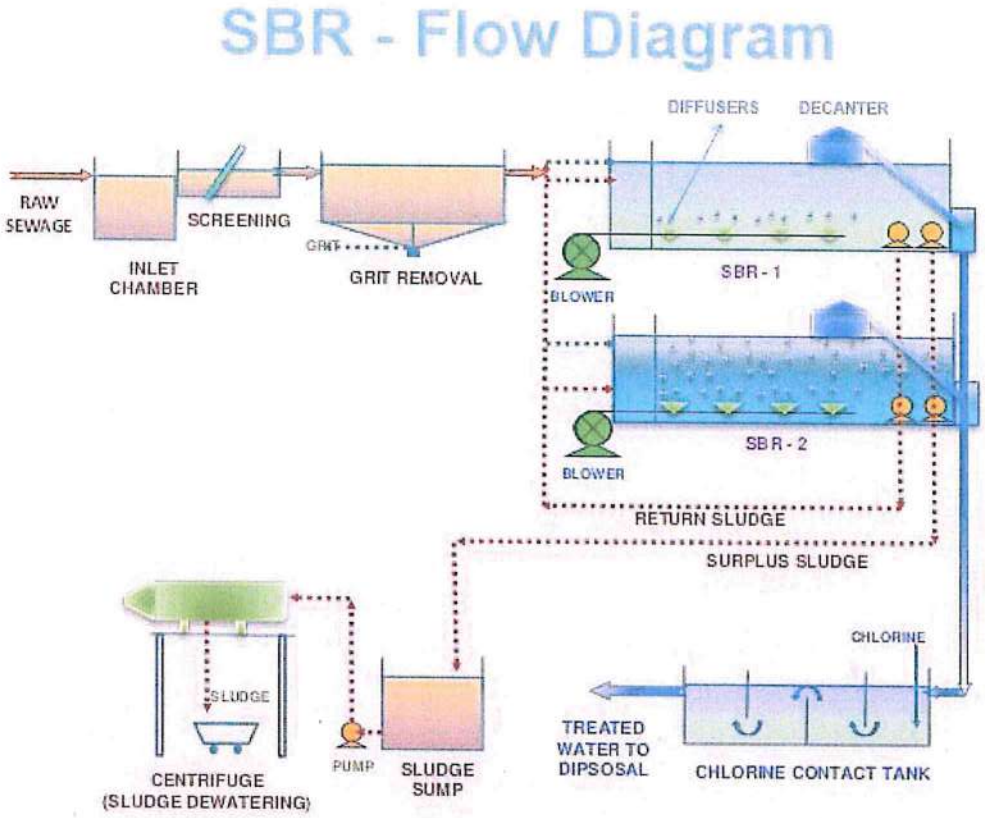
6. S.B.R. unit:

The flow from the grit chamber via collecting launder it is taken to the SBR unit for further process.

At the visited plant the Sequencing Batch Reactor (SBR) process is used to treat the waste water



SBR Process:

The Sequencing Batch Reactor (SBR) process has been extensively used in Europe and the United States in the past two decades. Its use in India has been limited to date, although within the last few years approximately treatment plants using this technology were constructed in various cities of India One of the obstacles in the acceptability of SBR process has traditionally been the need for precise, automated and reliable control of various stages of the process. Recent developments in the programmable logic controller (PLC) technology, however, have made the control of an SBR process readily achievable. The SBR process is an activated sludge process in which the sewage is introduced into a Reaction Tank (or SBR Tank), one batch at a time. Wastewater treatment is achieved by a timed sequence of operations which occur in the same SBR Tank, consisting of filling, reaction (aeration),

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settling, decanting, idling, and sludge wasting. The various stages in the sequence are as follows:

Stage 1: Filling

During this stage the SBR Tank is filled with the influent wastewater. In order to maintain suitable F/M (food to microorganism) ratios, the wastewater should be admitted into the tank in a rapid, controlled manner. This method functions similarly to a selector, which encourages the growth of certain microorganisms with better settling characteristics.

Stage 2: Reaction

This stage involves the utilization of biochemical oxygen demand (BOD) and ammonia nitrogen, where applicable, by microorganisms. The length of the aeration period and the sludge mass determines the degree of treatment. The length of the aeration period depends on the strength of the wastewater and the degree of nitrification (conversion of the ammonia to a less toxic form of nitrate or nitrite) provided for in the treatment.

SBR: Aeration Mode

Stage 3: Settling

During this stage, aeration is stopped and the sludge settles leaving clear, treated effluent above the sludge blanket. Duration for settling varies from 45 to 60 minutes depending on the number of cycles per day.

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SBR : Settling Mode

Stage 4: Decanting

At this stage of the process effluent is removed from the tank through the decanter, without disturbing the settled sludge.

SBR: Decanter Mode

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Stage 5: Idling

The SBR Tank waits idle until it is time to commence a new cycle with the filling stage.

Stage 6: Sludge Wasting

Excess activated sludge is wasted periodically during the SBR operation. As with any activated sludge treatment process, sludge wasting is the main control of the effluent quality and microorganism population size. This is how the operator exerts control over the effluent quality by adjusting the mixed liquor suspended solids (MLSS) concentration and the Mean Cell Residence Time (MCRT).

In this process, the SBR Tank acts as the equivalent of several components in the conventional activated sludge treatment process, as follows:

1. Aeration Tank: the SBR Tank acts as an aeration tank during the reaction stage where the activated sludge is mixed with the influent under aerated conditions.

2. Secondary Clarifier: the SBR Tank acts as a secondary clarifier during the settling and decanting stages where the mixed liquor is allowed to settle under quiescent conditions, and the overflow is discharged to the next stage of treatment.

3. Sludge Return System: the activated sludge, following settling in the SBR Tank, is mixed with the influent similar to the sludge return system, except that the feed is transferred to the sludge rather than the sludge being transferred to the front end of the plant.

An advanced sequential batch reactor technology. This technology is extensively used for treating domestic sewage and industrial effluents. A very high degree of treatment of waste water is achieved which makes it suitable for recycle and reuse at a very low cost of treatment and by using minimum space.

Waste water Treatment Process:

It is a CYCLIC ACTIVATED SLUDGE TREATMENT process. It provides highest treatment efficiency possible in a single step biological process.

The System is operated in a batch reactor mode this eliminates all the inefficiencies of the continuous processes. A batch reactor is a perfect reactor, which ensures 100% treatment. Two or more modules are provided to ensure continuous treatment. The complete process takes place in a single reactor, within which all biological treatment steps take place sequentially.

No additional settling unit, secondary clarifier is required.

The complete biological operation is divided into cycles. Each cycle is of 3 hrs' duration, during which all treatment steps take place.

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Explanation of cyclic operation:

A basic cycle comprises:

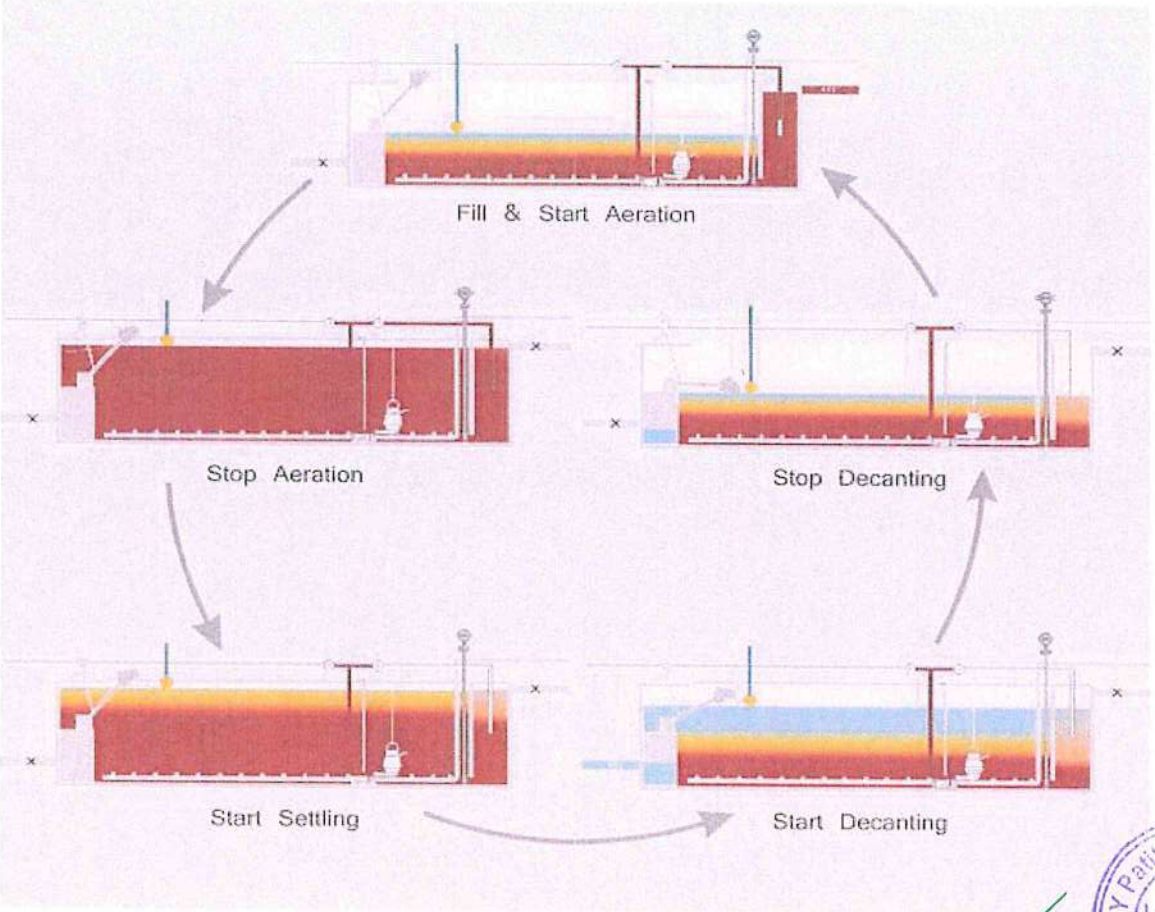
- Fill-Aeration (F/A)
- Settlement (S)
- Decanting (D

These phases in a sequence constitute a cycle, which is then repeated.

A. Typical Cycle:

During the period of a cycle, the liquid is filled in the Basin up to a set operating water level. Aeration Blowers are started for a pre-determined time to aerate the effluent along with e biomass. After the aeration cycle, the biomass settles under perfect settling conditions. Once Settled the supernatant is removed from the top using a DECANTER. Solids are wasted from the tanks during the decanting phase.

These phases in a sequence constitute a cycle, which is then repeated.



A Typical Cycle

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7. Centrifugation unit:

The next step after the treatment of waste water is to treat the settled sludge from the SBR unit.

The consistency of the sludge increases by the 20%.

The sludge is passed through this mechanical unit where centrifugation of sludge is carried out and then it is taken to the final disposal.

Centrifuges are effective pieces of equipment for dewatering solids skimmed off most wastewater systems. Centrifuges provide cost saving advantages:

- 70% reduction of total disposal volume.
- Produces stackable cake-like sludge.
- Reduces handling costs.
- Increases options for sludge disposal.

Sludge Thickener.

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8.Chlorine contact tank:

- Disinfection of municipal wastewater is necessary for safe potable water supplies and for healthy rivers and streams. Microorganisms are present in large numbers in sewage treatment plant effluents and waterborne disease outbreaks have been associated with sewage-contaminated water supplies or recreational waters.
- Chlorination is by far the most common method of wastewater disinfection and is used worldwide for the disinfection of pathogens before discharge into receiving streams, rivers or oceans. Chlorine is known to be effective in destroying a variety of bacteria, viruses and protozoa, including Salmonella, Shigella and Vibrio cholera.
- The detention time for the chlorination unit provided is 30 min.
- The dose of chlorine 2to 5ppm.
- After the waste water treatment the treated water is used for the construction activity in the nearby areas.
- It is also used at the treatment plant for the gardening, and other secondary purposes.

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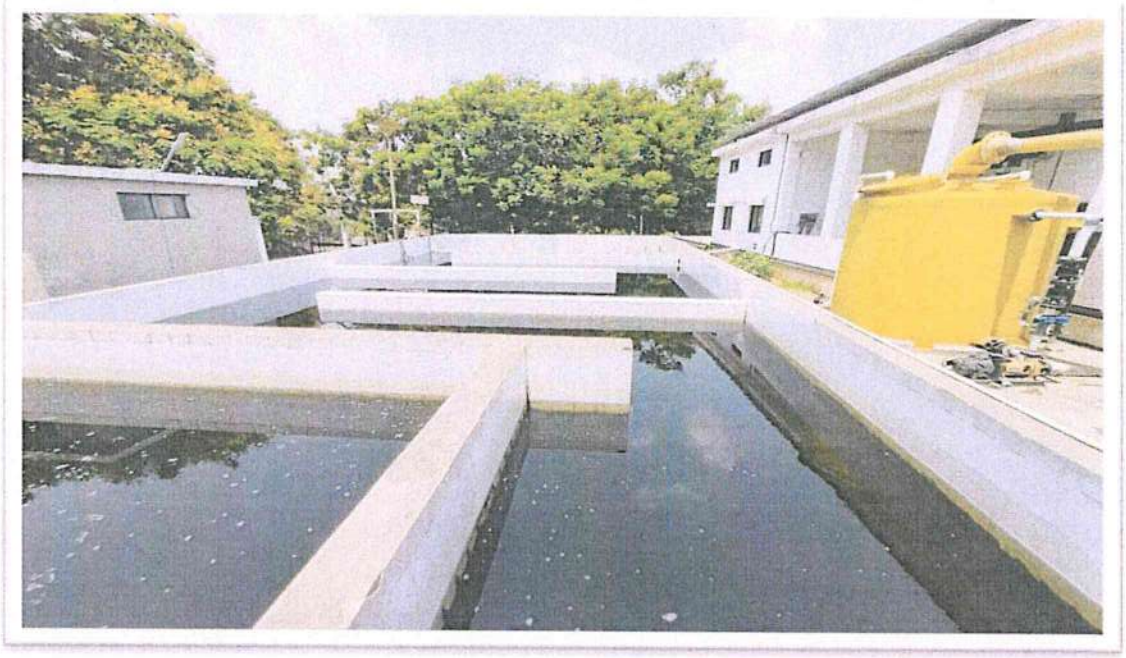

Chlorine Contact Tank

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Advantages of SBR Technology:

1. All unit operation in Single Reactor Vessel: One single reactor basin provides all of the unit operations like Equalization, primary clarification (in most cases), biological treatment, and secondary clarification can be achieved in a single reactor vessel.

2. High efficiency of removal: This process can be operated and controlled with flexibility for efficient removal of organic matter, suspended solids, nitrogen, and phosphorus under all loading conditions. Provides enhanced organic phosphorus removal with or without chemical augmentation.

3. Reuse of effluent: An effluent quality suitable for reuse.

4. Bulking of Activated sludge: This process can control the growth of filamentous bacteria and hence prevent bulking of activated sludge. Hence there are no operational problems like sludge bulking.

5. Saving of Capital Cost and Area requirement: This process saves capital cost by eliminating final sedimentation tanks. As secondary sedimentation tanks are not required in this process, the area needed is also minimal as simultaneous multiprocessing takes place in a single reactor basin (approximately 100 m2/1000 m3 only needed for SBR Tanks)

6. Easy for Future Expansion: Allows for easy modular expansion for population growth, modular configurations and cyclic operation is easily managed to provide continuous inflow and outflow hydraulic profiles dispensing with the need for outflow hydraulic balancing

Disadvantages of SBR:

1. High maintenance cost:

Compared to the conventional activated sludge system, a higher level of sophistication and maintenance can be associated with more automated switches and valves.

2. Basin depth: Should be sufficient to provide an adequate clear water depth over the sludge blanket to prevent settled solids entrainment

3. Flow balancing: In small single stream SBR systems approximately less than 10 MLD, effluent flow balancing may be needed for downstream processing, such as filtration or disinfection.

4. Larger capacity aeration system: relative to aeration time per cycle and per day is required compared as to conventional activated sludge system.

5. All the SBR plants must be designed to cater to the peak flows. A minimum of two tank system is required.

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Layout of 21 MLD STP: SBR

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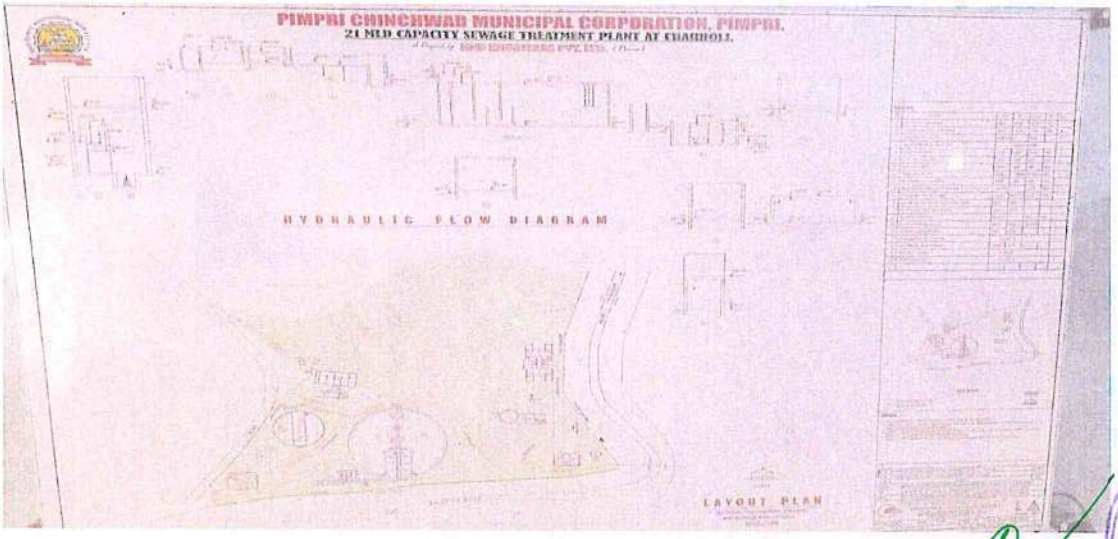

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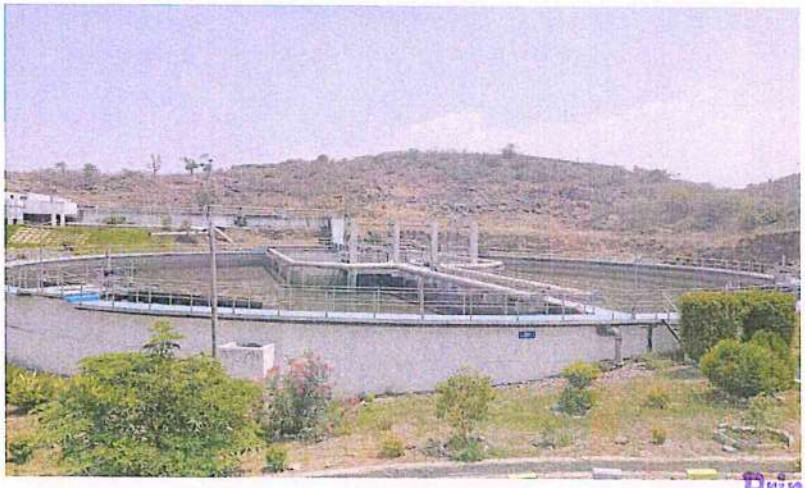

SBR BASIN

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PCMC. ENVIRONMENT DEPARTMENT
21 MLD. STP. CHARHOLI PHASE :-1
DATE:- 23/04/23

Sr/No	PARAMETER	INLET	OUTLET	MPCB LIMITS.
1)	P.H	7.4	7.6	6.5 TO 9.0
2)	D.O	Nil	5.6	>2
3)	T.S.S.	128	9.5	<20
4)	C.O.D.	296	28	<50
5)	B.O.D.	130	6.4	<10
6)	Basin-1	3177	-	3978
7)	Basin-2.	3268	-	4120
	[MLSS]			-
8)	FLOW.	-	-MLD	

Result of waste water Quality analysis of Inlet and Oulet waste water

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Best Practice – I

Competency Based Education and Assessment

Name of the faculty: - ...Prof. Swarupa B. Kamble.....

Name of the Subject :- ...Data Structure & Algorithm...

Department: .....Computer Engineering.....

Class: ...SE... Div: ...C.....

Competency Based Learning (Part A and Part B)

It is an active, adaptive, experiential and participatory learning where students' choice and voice are present in order to bring variety and variation in learning.

Note- Part A and B should cover latest developments, advancements, innovations and technologies in the subject domain.

{Select at least Three from each of Part-A & Part-B for every subject and map the outcome of activity}

Part A- Experiential Learning (Learning by Doing) (**Reference**: NAAC Manual Pg. 72)

Is a process of learning through experience and is more specifically defined as "learning through reflection on doing".

The following statements/ questions are related to the subject you teach in this semester

1. Is it possible to develop any prototype or model by the students related to the subject? Yes No
   If Yes, mention the related UNIT No. ..... and Prototype Name - .....
2. Do you want to show any product demo to the students related to any topic / UNIT? Yes No
   If Yes, mention the related UNIT No. ..... and Name of the Demo - .....
3. Do you want to assign any mini / major project to the students related to any topic? Yes No
   If Yes, mention the related UNIT No. ..... and the Project Name- .....
4. Are you going to arrange any industrial / Field / Laboratory visit? Yes No
   Name of Industry /Field/Lab visit - .....
5. Do you want to discuss a case studies related to the subject domain? Yes No
   If Yes, mention the UNIT No. ...01... and Title of the case study - ..Book Call No. & Dictionary.

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6. Do you want to focus on any simulation/gaming based learning in the subject? Yes No

   If Yes, mention the UNIT No. ..... and Name of the Simulation/Game- .....

7. Do you want to assign any mentor from industry /company to the students so that they can understand the subject well? Yes No

   If Yes, Name of the mentor and Industry name – .....

8. Is there any student club at department /college level related to the subject domain? Yes No

   If Yes, Number of students to be enrolled to the club –

9. Do you want to conduct any workshop related to the subject domain? Yes No

   If Yes, Name of the workshop- ..... No. of students enrolled –

10. Do you want to invite any expert / guest from an industry related to the subject? Yes No

    If Yes, Name of the expert- Mr. Gunwant Mali Name of the Topic – Use of D.S.A. in Industry

11. Do you want to empower the students to join an ad-on- course related to the subject? Yes No

    If Yes, Name of the Ad-on-courses available - .....No. of students to be enrolled

12. Do you want to empower the students to join a skill and practical oriented courses related to the subject? Yes No

    If Yes, Name of the course available - .....No. of students to be enrolled -

13. Do you want to show a few videos on advances, latest development and technology in the domain or subject? Yes No

    If Yes, Number of Videos to be shown (maintain the record)- 05

14. Any course available for the students w.r.t the subject domain at different learning platforms like Udemy, Coursera, Skillshare, MasterClass, Edx, Udacity etc. Yes No

    Name of the courses - Data Structure & Algorithm using Python.

Part –B Participative Learning (Learning by participating) (Reference- NAAC Manual Pg. 75)

Participatory Learning and Action is a family of approaches, methods, attitudes, behaviours and relationships, which enable and empower people to share, analyze and enhance their knowledge of their life and conditions, and to plan, act, monitor, evaluate and reflect.

1. Do you want to ask open ended questions in the domain? Yes No

   UNIT No.- 2 Question 1:- How to check if a given BT is BST or not

   UNIT No.- 3 Question 2:- Graph Data Structure

   UNIT No.- ..... Question 3:- .....

2. Do you want to conduct group discussion/ Buzz sessions in the subject domain? Yes No

   UNIT No.- 4 Topic - Collision Resolution Techniques

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UNIT No.- 2 Topic - Huffman Tree

3. Do you want to use a question bowl approach in the discussion? Yes No
   Topic- .....
4. Do you want to conduct news analysis with the help of student on any topic?
   Unit No. ..... Example ..... Yes No
5. Do you want to focus on peer learning w.r.t. the subject?
   Unit No. ..... Example ..... Yes No
6. Do you want to use survey methods with the help of student to understand any topic?
   Unit No. ..... Example ..... Yes No
7. Do you want to use Brainstorming session to understand the topic better?
   Unit No. ..... Name of the Topic ..... Yes No
8. Do you want to conduct a small scale research in the subject domain with the help of students?
   Unit No. ..... Topic ..... Yes No
9. Do you take any initiative with the help of the students to collect information related to a topic for better learning?
   Unit No. ..... Topic ..... Yes No
10. Is there any possibility of using a critical incident in the subject domain for better teaching and learning?
    Unit No. ..... Incident ..... Yes No
11. Do you want to use the approach of video viewing and discussion? ✓ Yes No

12. Do you want to use any other participatory approach or method or game in teaching and learning? Yes No
    Name of the approach /method/game - .....

Sign of Subject Teacher: S.B.Kamble

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Sign of HOD
Head of the Department
Department of Computer Engineering
Dr. D. Y. Patil School of Engineering
Dr. D. Y. Patil Technical Campus
Lohegaon Chandan Bk Pune 412105

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Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: **DSA Group Discussion**

Date and Time	21 Feb 2023
Event Venue	Class Room No. 312
Organized by	Department of Computer Engineering
Targeted Audience	Students
Resource Person	NA

Activity Contents:

GD tests the candidate's skills, such as leadership skills, communication skills, social skills and behavior, politeness, teamwork, listening ability, General awareness, confidence, problem-solving skills, etc. There may be nothing more exciting than watching students engage in a class discussion. The student was discussed about their assigned topics while the rest of the class listen their discussion. In this activity students are divided in two groups and topics on DSA was discussed between both group members and put their perspective on the topic. This activity is conducted on unit 1and 2.

Geo-tagged Photos:

Departmental Activity Coordinator: Prof.Swarupa Kamble

HOD: Dr.Pankaj Agarkar

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Date: 21/2/23

Attendance

Academic Year: 2022-23 **Semester-II**

Class: SE **Subject:** DSA

Title of Best Practice –I/II:

Activity Title: DSA group Discussion

Sr. No.	Roll No	Name of the Student	Signature
1.	73	Abhishek D. Nale	
2.	76	Gaje. Ram	
3.	76	Souali Mandlik	
4.	70	Gouri Chandgude	
5.	72	Chetan Khutge	
6.	57	Suraj Shedge	
7.	69	Saraj Bonde	
8.	01	Shweta Amale	
9.	57	Suraj Shedge	
10.	51	Amin Shaik.	
11.	34	Neeraj Lonkar	
12.	31	Aditya Konkewad	
13.	29	Aditya Kate	
14.	18	Shubham Ghume	
15.	25	Akash Joshi	
16.	23	Suman Jana	
17.	15	Somyajyoti Dal Gupta	
18.	61	Prathamesh Shinde	
19.	19	Abhishek Hadape	
20.	63	Harsh Tagde	
21.	59	Abhishek Shinde	
22.	67	Pratima Redekar	

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23.	62	Aditya Singh	
24.	58	Harshada shelke	
25.	60	Kanchan shinde	
26.	20	Divya Ingale	D.G. Ingale
27.	45	Sayali Patil	
28.	38	Rutuja Mhamunkar	
29.	46	Tanishka. B. Patil	
30.	80	Lakshi Kolte	
31.	27	Siddhesh Kamire	
32.	286	Vedant Joshi	
33.	43	Vishal Nalage	
34.	74	Upasna Rajoal	
35.	65	PIYUSH TIWARI	
36.	40	Khushi Marwani	Khushi
37.	03	Baig Aaisha	
38.	02	Anubhav Agrawal	
39.	71.	Snehal G. Dahake.	S Dahake.
40.	14	Pratik P. Chowdhari	
41.	12	Shweta Chavan	
42.	10	Anjali Borate	
43.	13	Atharva Chile	
44.	21	Ashish Ingle	Ashish
45.	07	Sanjivani Bhandare	Bajani
46.	24	Kaustubh Jangam	Jangam
47.	09	Arsheyi. Bhosale	
48.	04	Nikita Bandiwar	NikitaB.
49.	08	Aditya Bhosale	
50.	06	Prerna Bhandare	PBhandare.
51.	11	Chaudhari Dnyaneshwar	
52.	32	Jay kumbhar.	
53.	33	Varad Landge	
54.	39	Lakshita Mittal	Lakshita
55.	05	Shruti Bhalerao	
56.	17.	Tanishka Y. Ghate	
57.	22.	Tapaswi P. Jadhav	

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58.	64	AKASH TEMGIRE	
59.	44	Vidit Nandagopal	
60.	41	Tejas. Nahar	Tejas
61.	42	Rushikesh Naik	R. Naik
62.	28	Niraj Kashid	
63.	37	Sohan Masale	
64.	06	Prerna Bhandare	P Bhandare
65.	35	Rohit J. Mahant	
66.	56	Ranuja Shaikh	
67.	48	Rohit Phuge	
68.	49	Shubham Pingale	
69.	58	Harshada Shelke	
70.	60	Kanchan Shinde	
71.	55	Shaikh Yasin Nawshad.	
72.	75	Sangam Popat B.	
73.	47	Yash Pethkar	
74.	51	Hamid Shaikh	
75.	66	Jidit Ray	
76.	68	Shriya Walkar	

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Subject Teacher:

HoD: Dr.Pankaj Agarkar

HOD
Computer Engineering
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COMPUTER DEPARTMENT

Date: 8/3/23

Attendance

Academic Year: 2022-23 **Semester-II**

Class: SE **Subject:** DSA

Title of Best Practice –I/II:

Activity Title: Open Ended Questions of DSA

Sr. No.	Roll No	Name of the Student	Signature
1.	73	Abhishek D. Nale	
2.	16	Ram Garje.	
3.	76	Soudi Maudlik	
4.	70	Gouri Chandgude	
5.	72	Chetan Khutge	
6.	57	Suraj Shedge	
7.	69	Saraj Bonde	
8.	45	Sayali Patil	
9.	38	Purva Mhamunkar	
10.	46	Tanishka. Patil	
11.	30	Sakshi Kolte	
12.	68	Shriya Wathar	
13.	12	Shivela Chavan	
14.	13	Atharva Chile	
15.	14	Pratik Chowdhari	
16.	04	Nikita Bandiwar	
17.	11	Chaudhari Dnyaneshwar	
18.	21	Ashish Ingle	
19.	24	Kaustubh Jangam	
20.	56	Shreya Shaikh	
21.	17.	Tanishka Y. Ghate	
22.	22	Tapaswi P. Jadhav	

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23.	43	Vishal Nalage	
24.	74	Upasna Rawal	Rawal
25.	65	Piyush Tiwari	
26.	40	Khushi Marwani	Khushi
27.	03	Baig Aaisha	
28.	02	Anubhav Agrawal	
29.	61	Prathamesh Shinde	Shinde
30.	24	Kaustubh Tangam	
31.	01	Shweta Amale	
32.	19	Abhishek Hadape	Hadape.
33.	71	Snehal G. Dahake.	Dahake.
34.	07	Sanjana Bhandare	Bhandare
35.	20	Divya Ingale	Ingale
36.	23	Suman Jau	
37.	25	Akash Joshi	
38.	15	Saumyajyoti Dasgupta	Saumya
39.	10	Anjali Borkale	Borkale
40.	09	Arshey Bhosale.	Bhosale.
41.	29	Aditya Kate	
42.	08	Aditya Bhosale	
43.	06	Prerna Bhandare	Bhandare
44.	18	Shubham Ghume	
45.	32	Jay Kumbhar	Jay
46.	33	Varad Landge	Landge
47.	39	Lakshita Mittal	Lakshita
48.	26	Vedant Joshi	Vedant
49.	05	Shruti Bhalerao	
50.	62	Aditya Singh	Aditya
51.	31	Aditya Konkewal	
52.	~~46~~	~~Tanishka B. Patil~~	
53.	36	SAMEER KALU	
54.	64	AKASH TANGARE	
55.	15	Saumyajyoti Dasgupta	
56.	41	Tejas Nahar	Tejas
57.	44	Vidit Nandedkar	

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58.	37	Sohan Masale	
59.	28	Niraj Kashid	
60.	42	Rushikesh Naik	
61.	35	Rohit J. Mahant	
62.	63	Harsh Tagde	
63.	56	Shreya Sharma	
64.	48	Rohit Phuge	
65.	49	Shubham Pingale	
66.	59	Abhishek Shinde	
67.	58	Harshada shelke	
68.	60	Kanchan Shinde	
69.	55	Shaikh Yasin Naushad	
70.	75	Sargar Popat B.	
71.	51	Aamir Shaikh	
72.	27	Siddhesh Kamire	
73.	66	Amit Roy	
74.	66	Shreya Walkar	
75.			
76.			

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Subject Teacher:

HoD: Dr.Pankaj Agarkar

HOD
Computer Engineering
Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: **Video viewing & discussion**

Date and Time	19 May 2023
Event Venue	Class Room No. 334
Organized by	Department of Computer Engineering
Targeted Audience	Students
Resource Person	NA

Activity Contents:
The video viewing and discussion activity is useful to understand the concepts of the topic very clearly with an example. The video contains, GPS map which is designed by the concept of Graph and its different traversal technique

Geo-tagged Photos:

Departmental Activity Coordinator: Prof.Swarupa Kamble

HOD: Dr.Pankaj Agarkar

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering * Lohegaon, Pune

Date: 19/5/23

Attendance

Academic Year: 2022-23 **Semester-II**

Class: SE **Subject:** DSA

Title of Best Practice –I/II:

Activity Title: Video viewing & discussion

Sr. No.	Roll No	Name of the Student	Signature
1.	73	Abhishek D. Nale	
2.	16	Gaje Ram	
3.	76	Sonali Mandlik	
4.	70	Chandgude Gowri	
5.	72	Chetan khudge	
6.	57	Suraj Shedge	
7.	69	Suraj Bende	
8.	50	Vishal Sahni	
9.	65	Piyush Trijog Tiwari	
10.	02	Shubham Agrawal	
11.	66	Amrit Asit Ray	
12.	33	Yarad Landge	
13.	49	Shubham Pingale	
14.	41	Tejas Nahar	
15.	28	Niraj Kashid	
16.	42	Rushikesh Naik	
17.	44	Vidit Nandrajog	
18.	59	Abhishek Shinde	
19.	63	Harsh Tagde	
20.	61	Prathamesh Shinde	
21.	19	Abhishek Hadape	
22.	25	Akash Takhi	

Principal
Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

DR. D. Y. PATIL SCHOOL OF ENGINEERING
COMPUTER DEPARTMENT

Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

23.	27.	Siddhesh Kamire	Kamire
24.	28.	Vedant Joshi	Vedant
25.	20	Divya Ingale	D. S. Ingale
26.	15	Soumyajyoti Dasgupta	Soumya
27.	24	Kaustubh Jangam	Jangam
28.	18	Shubham Ghume	Shubham
29.	43	Vishal Nalage	
30.	40	Khushi Marwani	Khushi
31.	03	Baig Aaisha	
32.	32	Jay Kumbhar	Jay
33.	33	Varad .K. Landge	
34.	71	Snehal G. Dahake.	Dahake.
35.	13	Atharva Chile	
36.	36	SAMEER. B. MALI	
37.	12	Shweta Chavan	
38.	01	Shweta Amale	
39.	10	Anjali Borabe	
40.	14	Pratik P. Chowdhuri	
41.	21	Ashish Ingle	Ashish
42.	23	Suman Jana	
43.	74	Upasna Rawal	
44.	07	Sanjana Bhandari	
45.	09	Arshreji. Bhosale	
46.	04	Nikita Bandiwar	Nikita B.
47.	08	Aditya Bhosale	
48.	06	Prerna Bhandare	PBhandare
49.	29	Aditya Kate	
50.	11	Chaudhari Dnyaneshwar	
51.	38	Purva Khamunkar	Purva
52.	39	Lakshita Mittal	Lakshita
53.	30	Sakshi Kolte	
54.	26	Vedant Joshi	Vedant
55.	17	Tanishka T. Ghate	
56.	22.	Tapaswi P. Jadhav.	Jadhav
57.	05	Shruti Bhaleroo	

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

58.	62	Aditya Sirsat	
59.	64	AKASH TEMGIRE	
60.	46	Tanishka. B.Patil	
61.	45	Sayali Patil	
62.	31	Aditya Konkewad	
63.	41	Tejas. Nahar	
64.	42	Rushikesh Naik	
65.	37	Sohan Massale	
66.	35	Rohit J. Mahant	
67.	56	Shreya Shreeram	
68.	48	Rohit Phuge	
69.	49	Shubham Pingale	
70.	58	Harshada Shelke	
71.	60	kanchan shinde	
72.	55	Shaikh Yasin Nawshad	
73.	75	Sargar popat B.	
74.	02	Anubhav Agrawal	
75.	47	Yash Pethkar	
76.	68.	Shreya Watkar	
~~66~~		~~Ankit Roy~~	

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Subject Teacher:

HoD: Dr.Pankaj Agarkar

HOD
Computer Engineering
Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

Ajeenkya DY Patil School of Engineering Lohegaon, Pune

Dr. D.Y. PATIL SCHOOL OF ENGINEERING
COMPUTER DEPARTMENT

Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: **Case Study Activity**

Date and Time	26 April 2023
Event Venue	Class Room No. 312
Organized by	Department of Computer Engineering
Targeted Audience	Students
Resource Person	NA

Activity Contents:
Case studies are effective ways to get students to practically apply their skills and their understanding of learned facts to a real-world situation. They are particularly useful where situations are complex and solutions are uncertain. So, case study is discussed in class room on unit 1in small groups.

Geo-tagged Photos:

Departmental Activity Coordinator: Prof.Swarupa Kamble

HOD: Dr.Pankaj Agarkar

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

DY Patil School of Engineering * Ajeenkya * Lohegaon, Pune

Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: **DSA Certification from different learning platform**

Date and Time	25 May 2023
Event Venue	NA
Organized by	Department of Computer Engineering
Targeted Audience	Students
Resource Person	NA

Activity Contents:
Professional certifications can help students is clear, actionable and measurable in their careers, especially in highly-specialized industries such as human resources, accounting or information technology. As students do the certification courses, they are able to know what they can get out of the course and how it will help them.

Geo-tagged Photos:

Departmental Activity Coordinator: Prof.Swarupa Kamble

HOD: Dr.Pankaj Agarkar

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

Great Learning

CERTIFICATE OF COMPLETION

Presented to

SIDDHESH SUSHIL KAMIRE

For successfully completing a free online course

Data Structure & Algorithms in Java for Intermediate Level

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

Provided by

Great Learning Academy

(On May 2023)

Ajeenkya DY Patil School of Engineering ★ Lohegaon, Pune

Ajeenkya DY Patil School of Engineering ★ Computer Engineering ★

To verify this certificate visit verify.mygreatlearning.com/FUBWYDSH

Great Learning

CERTIFICATE OF COMPLETION

Presented to

Khushi Morwani

For successfully completing a free online course

Data Structure & Algorithms in Java for Intermediate Level

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Provided by

Great Learning Academy

(On May 2023)

Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

Great Learning

CERTIFICATE OF COMPLETION

Presented to

Jay Kumbhar

For successfully completing a free online course

Data Structure & Algorithms in Java for Intermediate Level

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Provided by
Great Learning Academy
(On May 2023)

Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

Ajeenkya DY Patil School of
Computer

CERTIFICATE OF COMPLETION

Presented to

Lakshita Mittal

For successfully completing a free online course

Data Structure & Algorithms in Java for Intermediate Level

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

Provided by
Great Learning Academy

Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

Ajeenkya DY Patil School of Engineering
Computer Engineering

Great Learning

CERTIFICATE OF COMPLETION

Presented to

Soumyajyoti Dasgupta

For successfully completing a free online course

Data Structure & Algorithms in Java for Intermediate Level

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

Provided by

Great Learning Academy

(On May 2023)

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering

Great Learning

CERTIFICATE OF COMPLETION

Presented to

Sameer Mali

For successfully completing a free online course

Data Structure & Algorithms in Java for Intermediate Level

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Provided by

Great Learning Academy

(On May 2023)

GeeksforGeeks

CERTIFICATE

OF COURSE COMPLETION

THIS IS TO CERTIFY THAT

Snehal Dahake

has successfully completed the course on
Advanced Data Structure
of duration 1 week

Sandeep Jain

Mr. Sandeep Jain
Founder & CEO,

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

https://media.geeksforgeeks.org/courses/certificates/f7dcdc834df4725ead8664cc9df8620d.pdf

Great Learning

CERTIFICATE OF COMPLETION

Presented to

Varad Landge

For successfully completing a free online course

Data Structure & Algorithms in Java for Intermediate Level

Provided by

Great Learning Academy

(On May 2023)

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

Great Learning

CERTIFICATE OF COMPLETION

Presented to

Sohan Sanjay Marsale

For successfully completing a free online course

Data Structure & Algorithms in Java for Intermediate Level

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Provided by

Great Learning Academy

(On May 2023)

To verify this certificate visit verify.mygreatlearning.com/GSKEOSPH

Great Learning

CERTIFICATE OF COMPLETION

Presented to

AKASH JOSHI

For successfully completing a free online course

Data Structure & Algorithms in Java for Intermediate Level

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

Provided by

Great Learning Academy

(On May 2023)

Great Learning

CERTIFICATE OF COMPLETION

Presented to

Piyush Tiwari

For successfully completing a free online course

Python Data Structures

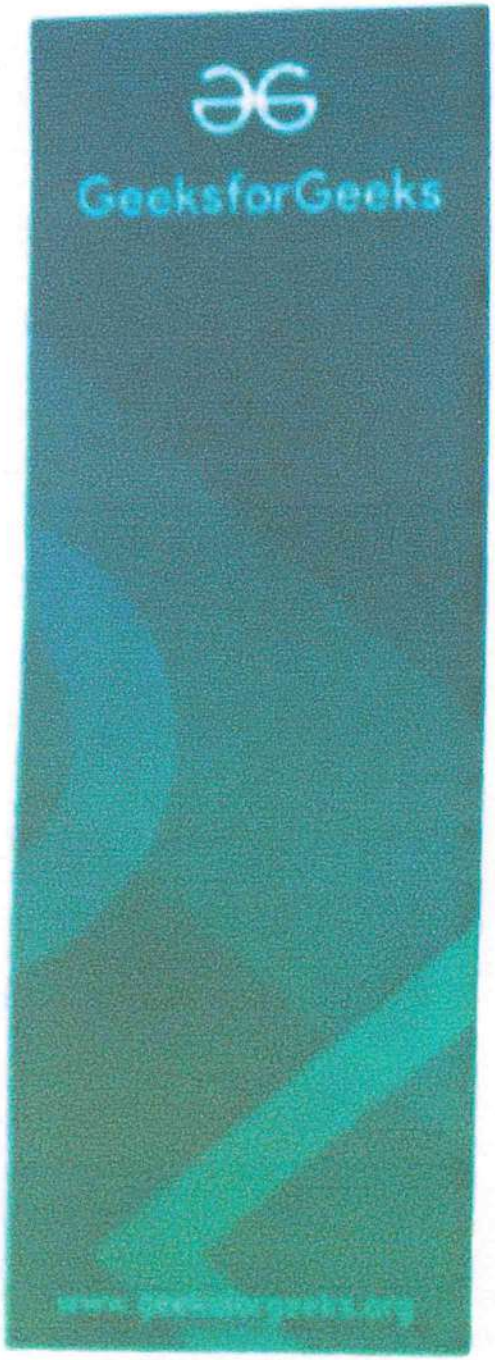
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

Provided by

Great Learning Academy

(On May 2023)



CERTIFICATE

OF COURSE COMPLETION

THIS IS TO CERTIFY THAT

Upasana Rawal

has successfully completed the course on
Advanced Data Structure
of duration 1 week

Sandeep Jain

Mr. Sandeep Jain
Founder & CEO,

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering, Computer Engineering

https://media.geeksforgeeks.org/courses/certificates/f7dcdc834df4725ead8664cc9df8620d.pdf

Great Learning

CERTIFICATE OF COMPLETION

Presented to

Shweta Amale

For successfully completing a free online course

Data Structure & Algorithms in Java for Intermediate Level

Provided by

Great Learning Academy

(On May 2023)

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering Lohegaon Pune

Great Learning

CERTIFICATE OF COMPLETION

Presented to

Vishal Sahni

For successfully completing a free online course

Data Structure & Algorithms in Java for Intermediate Level

Provided by

Great Learning Academy

(On May 2021)

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering * Lohegaon, Pune

Best Practice – II

Bridging the Gap between Education and Employment through Industry Connect

Name of the faculty: - Prof. Swarupa B. Kamble

Name of the Subject: - Data Structure & Algorithm Class: SE Div: C

Sector of the industry Identified: - –

Name of the industry to be connected:- –

Plan of Action (PoA):- {Select at least five for each subject and map the outcome of activity}

1. Do you want to sign Sign MoU with the industry? Yes / No Tentative date to sign the MoU:- ...../...../2023
2. Are there any hot topics, areas, trends, advances, technologies in the industry sector? Yes / No
   Mention Names- .....
3. Do you want to identify issues, problems and challenges in the industry? Yes / No
   List the issues.....
4. Do you want to conduct the product survey of the industry with the help of students? Yes / No
5. Do you want to let the students to understand the website of the industry? Yes / No
6. Do you want to arrange a physical visit to the industry? Yes / No
7. Do you want to arrange a virtual visit of the industry? Yes / No
8. Do you want to arrange a guest lecture? Yes / No
   Title of the guest lecture -...Indexing...and...Multiway Trees
9. Is it possible to get sponsored project(s) from the industry for the final year students? Yes / No
10. Is it possible to get internship for the SE/TE students from the industry? Yes / No

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering * Lohegaon Pune * Computer Engineering

Ajeenkya DY Patil School of Engineering * Lohegaon Pune *

11. Do you want to write a conference paper/article on the best practices of the industry by involving students? Yes No

12. Do you want to arrange a hands-on workshop for the subject in collaboration with the industry?
    Title of the workshop - ..... Yes No

13. Is there any skill development course available in the market w.r.t the subject? Yes No
    Title of the course - Data Structure And Algo. with Java / Python.

14. Are there any skilling, upskilling, reskilling or multiskilling trainings /workshops available at. NSDC/Skill India/Make in India for the subject? Yes No
    Names of the courses – NPTEL (Swayam) : Data Structure & Algo. using Java.

15. Do you want to motivate the students to participate in National/international employability tests or exams in the subject? Yes No
    Name of the tests - .....

Sign of Subject Teacher:

Ajeenkya DY Patil School of Engineering Computer Engineering Lohegaon, Pune

Sign of HoD

HOD
Computer Engineering
Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering Lohegaon, Pune

Event Permission

Academic Year: 2022-23 **Semester-II**

To
The Principal,
DYPSOE, Pune

Subject: Request for permission to organize a Guest Lecture on **"Indexing & Multiway Trees"** and consequently the budge of rupees 1000/.

Through: HoD (Dr.Pankaj Agarkar)

Respected Sir,

Department of Computer Engineering is going to organize Guest Lecture on **"Indexing & Multiway Trees"** on 20th May 2023 in online mode for the Second Year students.

I request you to give the permission to organize this event. I further request you to sanction the budget of Rs.1000/-

Kindly sanction a Budget of Rs.1000/-

Thanking You,

Yours Faithfully,

Departmental Event Coordinator: Prof. Swarupa Kamble

HOD: Dr.Pankaj Agarkar

HOD
Computer Engineering
Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

Ajeenkya DY Patil School of Engineering * Computer Engineering * Lohegaon, Pune

Principal:Dr.F.B.Sayyad

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering * Lohegaon, Pune *

AJEENKYA DY Patil School of Engineering	"Empowerment through quality technical education" **AJEENKYA DY PATIL SCHOOL OF ENGINEERING** Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105. Department of Department of Computer Engineering

Date: 19/05/2023

Event Notice

Academic Year: 2022-23 **Semester-II**

Name of the Event: Guest Lecture

Date of the event : 20th May 2023

Venue : Online Mode

This is to notify **Computer Engineering Department** organizing event on Guest Lecture on **"Indexing & Multiway Trees"** on 20th May 2023. This event is for Second Year students.

Departmental Event Coordinator: Prof.Swarupa Kamble

HoD: Dr.Pankaj Agarkar

HOD
Computer Engineering
Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

Principal: Dr.F.B.Sayyad

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering * Computer Engineering * Lohegaon, Pune *

Ajeenkya DY Patil School of Engineering * Lohegaon, Pune *

Activity Report

Academic Year: 2022-23 **Semester-II**

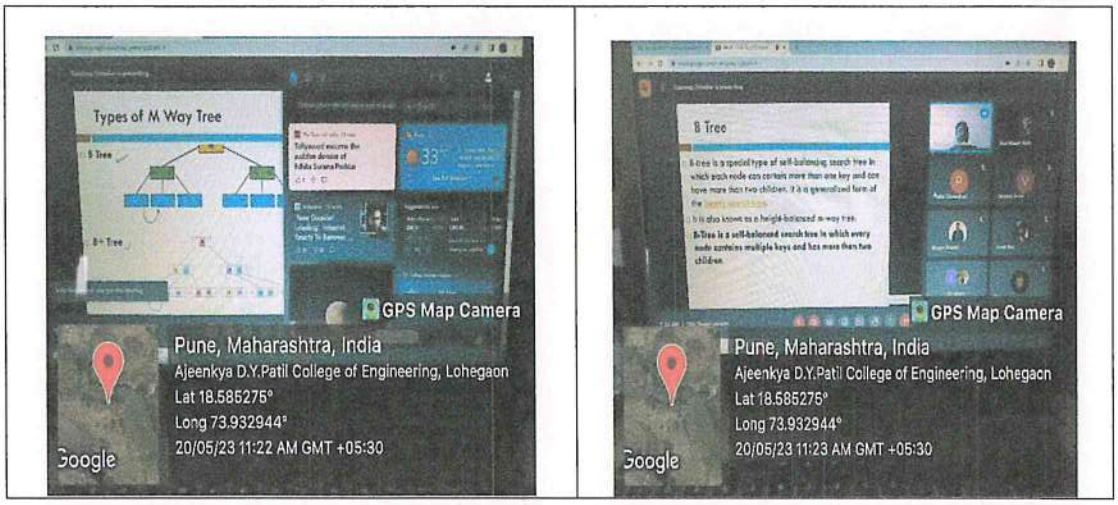
Best Practice II Activity: **Guest Lecture on Indexing and Multiway Trees**

Date and Time	20 May 2023
Event Venue	Online Mode
Organized by	Department of Computer Engineering
Targeted Audience	Students
Resource Person	Prof. Sandeep Chitalkar

Activity Contents:

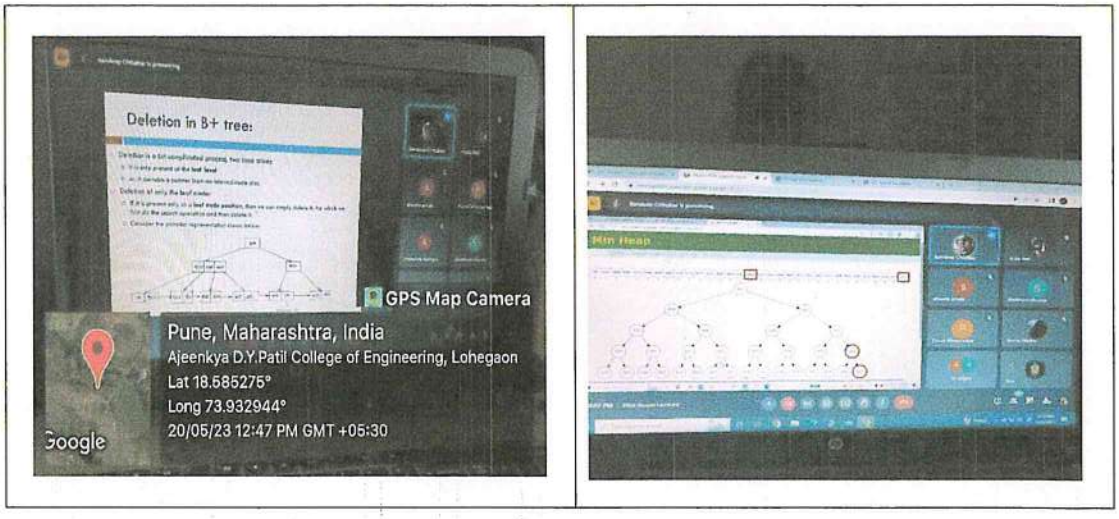
Department of Computer Engineering organized guest lecture on '**Indexing and Multiway Trees'**. Prof. Sandeep Chitalkar, Department of Artificial Intelligence & Data Science, Dr.D.Y.Patil Institute of Technology, Pimpri, had conducted guest lecture on "Indexing and Multiway Trees". This guest lecture will help students to gain knowledge, for better understanding of topic and improves the practical implementation knowledge of same.

Geo-tagged Photos:



Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering Lohegaon Pune



Departmental Activity Coordinator: Prof.Swarupa Kamble

HOD: Dr.Pankaj Agarkar

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

AJEENKYA
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"Empowerment through quality technical education"
AJEENKYA DY PATIL SCHOOL OF ENGINEERING
Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412105.
Department of Computer Engineering
Form No. IQAC/28

Date: 20/5/23

Attendance

Academic Year: 2022-23 **Semester-II**

Class: SE **Subject:** DSA

Title of Best Practice –I/II:

Activity Title: Guest Lecture on Indexing & Multiway Trees.

Sr. No.	Roll No	Name of the Student	Signature
1.	73	Abhishek D. Nale	
2.	16	Gaje Ram	
3.	76	Sonali Mandlik	
4.	70	Gouri Chandgude	
5.	72	Chean Khedge	
6.	57	Suraj Shedge	
7.	69	Suraj Bende	
8.	71	Snehal Dabake.	
9.	74	Upasna Rawal	
10.	40	Khushi Morwani	
11.	05	Shruti Bhalerao	
12.	17	Tanishka Ghate	
13.	22	Tapaswi P. Jadhav	
14.	56	Shreya Sharma	
15.	21	Ashish Ingle	
16.	24	Kaustubh Jangam	
17.	11	Dnyaneshwar Chaudhari	
18.	04	Nikita Bandiwar	
19.	61	Prathamesh Shinde	
20.	19	Abhishek Hadape	
21.	23	Sumas Jara	
22.	15	Soumyajyoti Dasgupta	

D. Y. PATIL SCHOOL OF ENGINEERING COMPUTER DEPARTMENT

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

23.	25	Akash Joshi	Akash
24.	18	Shubham Ghume	Shubham
25.	27.	Siddhesh Kamire	Kamire
26.	43	Vishal Nalage	
27.	65	Piyush Tiwari	
28.	03	Baig Aaisha	
29.	02	Anubhav Agrawal	
30.	14	Pratik P. Chowdhari	
31.	13	Atharva Chile	
32.	12	Shweta Chavan	
33.	07	Sayane Bhandari	
34.	20	Divya Ingale	D. C. Ingale
35.	24	Kaustubh Jangam	
36.	01	Shweta Amale	
37.	10	Anjali Borate	
38.	09	Arshleji Bhosale	
39.	06	Prerna Bhandare	
40.	29	Aditya Kate	
41.	08	Aditya Bhosale	
42.	32	Jay Kumbhar	
43.	38	Purva Mhamunkar	
44.	33	Varad Lamage	
45.	39	Lakshita Mittal	
46.	30	Sakshi Kolte	
47.	26	Vedant Joshi	
48.	20	Divya Ingale	D. C. Ingale
49.	62	Aditya Sinah	
50.	31	Aditya Konkewad	
51.	46	Tanishka Patil	
52.	64		
53.	45	Sayali Patil	
54.	44		
55.	41	Tejas Nahar	
56.	28	Niraj Kashid	
57.	37	Sohan Mansale	

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

58.	42	Rushikesh Naik	
59.	35	Rohit J. Mahant	
60.	63	Harsh A. Tajde	
61.	~~56~~	~~Shreya Shinde~~	~~Shreya~~
62.	48	Rohit Phuge	
63.	49	Shubham Pingale	
64.	59	Abhishek Shinde	
65.	58	Harshada Shelke	
66.	55	Shaikh Yasin Naushad	
67.	75	Sargar popat B.	
68.	~~60~~	Kanchan Shinde	
69.	~~60~~		
70.	47	Yash Pethkar	
71.	51	Aamir Shaikh	
72.	~~65~~	Pitambar T.	
73.	66	Ishkit Roy	
74.	68	Shriya Watkar	
75.			
76.			

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Subject Teacher:

HoD: Dr.Pankaj Agarkar

HOD
Computer Engineering
Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

D. Y. PATIL SCHOOL OF ENGINEERING
COMPUTER DEPARTMENT

Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice II Activity: **To Understand Website of the Industry**

Date and Time	26 May 2023
Event Venue	Class Room No. 334
Organized by	Department of Computer Engineering
Targeted Audience	Students
Resource Person	NA

Activity Contents:

A direct connection with the relevant industry always opens the door to a better understanding of the entire working methodology of the domain. Understanding website of the industries like Amazon helps to enrich the young minds with real-life knowledge and out of the textbook information. In this, topics of unit 3 and 4 was explained with the help of Amazon's website by a student to his classmates.

Geo-tagged Photos:

Departmental Activity Coordinator: Prof.Swarupa Kamble

HOD: Dr.Pankaj Agarkar

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Date: 26/5/23

Attendance

Academic Year: 2022-23 **Semester-II**

Class: SE **Subject:** DSA

Title of Best Practice –I/II:

Activity Title: To understand Website of the industry

Sr. No.	Roll No	Name of the Student	Signature
1.	73	Abhishek D. Nale	
2.	16	Ram Gaje.	
3.	76	Sonali Mandlik	
4.	70	Gouri Chandgude	Chandgude.
5.	72	Chetan Khulge	Chetan
6.	69	Suraj. Bonde	S. bonde
7.	22	Tapaswi P. Jadhav	Jadhav
8.	17	Tanishka Y. Ghate	Ghate
9.	56	Shreya Sharma	Shreya
10.	21	Ashish Ingle	Ashish
11.	24	Kaustubh Tangam	Tangam
12.	11	Dnyaneshwar Chaudhari	Chaudhari.
13.	13	Atharva V. Chile	Atharva.
14.	14	Pratik P. Chowdhari	Chowdhari
15.	04	Nikita Bandiwar	Nikita. B.
16.	43	Vishal Nalage	
17.	74	Upasna Rathod	Rathod.
18.	65	Piyush Tiwari	
19.	40	Khushi Morwani	Khushi
20.	03	Baig Aaisha	
21.	02	Anubhav Agrawal	Agrawal
22.	61	Prathamesh Shinde	Shinde

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COMPUTER DEPARTMENT

23.	12	Shweta Chavan	Shweta
24.	23	Suman Jana	Jana
25.	19	Abhishek Hadape	Ahadape.
26.	25	Akash Joshi	Akash
27.	15	Soumyajyoti Dasgupta	Soumya
28.	01	Shweta Amale	Swet
29.	09.	Arshayi. Bhosale	ArshiB
30.	1		
31.	71	Snehal Ganesh Dahake	Dahake.
32.	07	Sanjana Bhandari	Bhanja
33.	20	Divya Ingale	D. G. Ingale
34.	10	Anjali Borde	ABord
35.	08	Aditya Bhosale	Adity
36.	06	Prerna Bhandare	Pbhandare
37.	29	Aditya kate	Akate
38.	11	Chaudhari nyaneshwar	Chaudha.
39.	18	Shubham Ghume	Shubham
40.	32	Jay Kumbhar	Jay
41.	38	Purva Mhamunkar	Purva
42.	33	Varad . K. Landge	VKLand
43.	39	Lakshita Mittal	Lakshita
44.	30	Sakshi Kolte	SKolte
45.	26	Vedant Joshi	Vedant
46.	05	Shruti Bhaleroo	Shruti
47.	62	Aditya Singh	Aditya
48.	36	SAMEER MALI	Sameer
49.	46	Tanishka. Patil	Patil
50.	17	Pratik P. Chowdhari	PPC.
51.	64	AKASH TEMGIRE	AKT
52.	40	Khushi Monwani	Khushi
53.	45	Sayali Patil	Patil
54.	31	Aditya Konkeoad	Akonk
55.	44	Vidit N. Jadhav	
56.	41	Tejas Nakhar	Tejas
57.	37	Rohan Maskale	Rohan

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58.	42	Rushikesh Naik	R. Naik
59.	28	Niraj Kadid	Kadid
60.	35	Rohit J. Mahant	
61.	63	Hazik Tagde	Tagde
62.	56	Shreya Sharma	
63.	48	Rohit Phuge	
64.	49	Shubham Pingale	
65.	59	Abhishek Shinde	
66.	58	Harshada Shelke	Shelke
67.	75	Sargar popat B.	Sargar.
68.	60	Kanchan shinde	Shinde
69.	55	Shaikh Yasin Haushad	
70.	47	Yash Pethkar	Yash
71.	5	Aaniv Shaikh	
72.	65	Tiwari Piyush	
73.	27.	Siddhesh Kamire	Kamire
74.	66	Amit Ray	
75.	68	Shriya Watkar	
76.			

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Subject Teacher:

HoD: Dr.Pankaj Agarkar
Computer Engineering
Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

D. Y. PATIL SCHOOL OF ENGINEERING
COMPUTER DEPARTMENT

Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice II Activity: **Expert Lecture on Use of DSA subject in IT**

Date and Time	26 May 2023
Event Venue	334
Organized by	Department of Computer Engineering
Targeted Audience	Students
Resource Person	Mr. Gunwant Mali

Activity Contents:

Department of Computer Engineering organized guest lecture on '**Expert Lecture on Use of DSA subject in IT'**, Mr. Gunwant Mali, Sr. SDE at Amazon, Bengaluru, Karnataka, India, had conducted expert lecture on "Use of DSA subject in IT". This expert lecture will help students to gain knowledge, for better understanding of topic and improves the practical implementation knowledge of same.

Geo-tagged Photos:

Departmental Activity Coordinator: Prof.Swarupa Kamble

HOD: Dr.Pankaj Agarkar

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Engineering, Lohegaon, Pune

Date: 26/5/23

Attendance

Academic Year: 2022-23 **Semester-II**

Class: SE **Subject:** DSA

Title of Best Practice –I/II:

Activity Title: Expert Lecture on use of DSA subject in IT.

Sr. No.	Roll No	Name of the Student	Signature
1.	73	Abhishek D. Nale	
2.	16	Gaje Ram	
3.	76	Sonali Mandlik	
4.	70	Gouri chandgude	
5.	72	Chetan Khedge	
6.	57	Suraj Shedge	
7.	69	Suraj Bende	
8.	39	Lakshita Muttal	
9.	43	Vishal Nalage	
10.	32	Jay Kumbhar	
11.	36	Sameer Mali	
12.	27	Siddhesh Kamire	
13.	28	Vedant Joshi	
14.	37	Sohan Masale	
15.	08	Aditya Bhosale	
16.	03	Baig Aaisha	
17.	06	Prerna Bhandare	
18.	10	Anjali Borate	
19.	09	Arsheyi. Bhosale	
20.	61	Prathamesh Shinde	
21.	19	Abhishek Hadape	
22.	18	Shubham Ghume	

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23.	25	Akash Joshi	
24.	14	Pratik P. Chowdhari	
25.	23	Suman Jana	
26.	71	Snehal G. Dahake	
27.	15	Somyajyoti Das Gupta	
28.	74	Upasna Rawal	
29.	65	Piyush Tiwari	
30.	40	Khushi Marwari	
31.	02	Anubhav Agrawal	
32.	21	Ashish Ingle	
33.	13	Atharva Chile	
34.	12	Shweta Chavan	
35.	20	Divya Ingale	
36.	08	Sanjana Bhandari	
37.	24	Kaustubh Jangam	
38.	01	Shweta Amale	
39.	04	Nikita Bandiwar	
40.	08	Aditya Bhosale	
41.	29	Aditya Kate	
42.	11	Chaudhari priyaneshwari	
43.	38	Purva Khamankar	
44.	33	Varad Landge	
45.	30	Sakshi Kolte	
46.	26	Vedant Joshi	
47.	05	Shruti Bhaleroo	
48.	22	Tapasvi Jadhav	
49.	17	Tanishka Ghate	
50.	62	Aditya Singh	
51.	64	AKASH TEKUZRE	
52.	46	Tanishka B. Patil	
53.	45	Sayali Patil	
54.	31	Aditya Konkewad	
55.	42	Rushikesh Naik	
56.	41	Tejas Nakar	
57.	44	Vidit Nandanwar	

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58.	35	Rohit J. Mahant	
59.	28	Niraj Kashid	
60.	63	Hazik Tagde	
61.	56	Shreeya Sharma	
62.	48	Rohit Phugo	
63.	49	Shubham Pingale	
64.	59	Abhishek Shinde	
65.	58	Harshada Shelke	
66.	75	Sargar Popat B.	
67.			
68.	47	Yash Pethkar	
69.	60	Kanchan Shinde	
70.	55	Shaikh Yasin Noushad	
71.	51	Shaikh Aamir Ateeque	
72.	68	Sunaina Watkar	
73.	66	Aneit Ray	
74.			
75.			
76.			

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Subject Teacher:

HoD: Dr.Pankaj Agarkar

HOD
Computer Engineering
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COMPUTER DEPARTMENT

Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: **Skill Development Course of DSA**

Date and Time	25 May 2023
Event Venue	NA
Organized by	Department of Computer Engineering
Targeted Audience	Students
Resource Person	NA

Activity Contents:

Skill development courses are programs that help to perform a particular activity in a very experienced manner. They aim to acknowledge the ability of the students and provide them with proper guidance, infrastructure, opportunities, and encouragement. Some of the most popular skill development courses online are related to data structure and algorithm, machine learning and digital literacy. Skill development courses can benefit students by improving performance, quality, communication, compliance, recruitment, and customer relations.

Geo-tagged Photo:

Departmental Activity Coordinator: Prof.Swarupa Kamble

HOD: Dr.Pankaj Agarkar

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Presented to

SIDDHESH SUSHIL KAMIRE

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Ajeenkya DY Patil School of Engineering * Lohegaon Pune *

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Ajeenkya D.Y. Patil School of Engineering, Lohegaon, Pune

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(On May 2023)

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GeeksforGeeks

CERTIFICATE

OF COURSE COMPLETION

THIS IS TO CERTIFY THAT

Snehal Dahake

has successfully completed the course on
Advanced Data Structure
of duration 1 week

Sandeep Jain

Mr. Sandeep Jain
Founder & CEO,

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering
Computer Engineering

https://media.geeksforgeeks.org/courses/certificates/7dcdc834df4725ead8664cc9df8620d.pdf

www.geeksforgeeks.org

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Presented to

Varad Landge

For successfully completing a free online course

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Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

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(On May 2023)

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CERTIFICATE OF COMPLETION

Presented to

Sohan Sanjay Marsale

For successfully completing a free online course

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Principal
Ajeenkya DY Patil School of
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AKASH JOSHI

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Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

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CERTIFICATE OF COMPLETION

Presented to

Piyush Tiwari

For successfully completing a free online course

Python Data Structures

Principal
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(On May 2023)

GeeksforGeeks

CERTIFICATE

OF COURSE COMPLETION

THIS IS TO CERTIFY THAT

Upasana Rawal

has successfully completed the course on
Advanced Data Structure
of duration 1 week

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

Sandeep Jain

Mr. Sandeep Jain
Founder & CEO,

Ajeenkya DY Patil School of Engineering * Computer Engineering *

www.geeksforgeeks.org

https://media.geeksforgeeks.org/courses/certificates/f7dcdc834df4725ead8664cc9df8620d.pdf

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Shweta Amale

For successfully completing a free online course

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(On May 2023)

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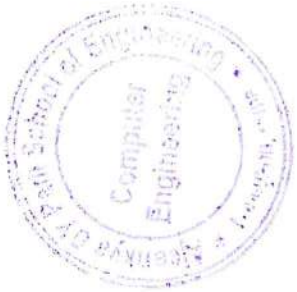

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CERTIFICATE OF COMPLETION

Presented to

Vishal Sahni

For successfully completing a free online course

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(01 May 2023)

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Best Practice – I

Competency Based Education and Assessment

Name of the faculty: - Prof. Renuka Gavli

Name of the Subject :- Principles of Programming Languages

Department: Computer Engineering

Class: SE Div: A & B

Competency Based Learning (Part A and Part B)

It is an active, adaptive, experiential and participatory learning where students' choice and voice are present in order to bring variety and variation in learning.

Note- Part A and B should cover latest developments, advancements, innovations and technologies in the subject domain.

{Select at least Three from each of Part-A & Part-B for every subject and map the outcome of activity}

Part A- Experiential Learning (Learning by Doing) (**Reference**: NAAC Manual Pg. 72)

Is a process of learning through experience and is more specifically defined as "learning through reflection on doing".

The following statements/ questions are related to the subject you teach in this semester

1. Is it possible to develop any prototype or model by the students related to the subject? Yes No
   If Yes, mention the related UNIT No. ..... and Prototype Name - .....
2. Do you want to show any product demo to the students related to any topic / UNIT? Yes No
   If Yes, mention the related UNIT No. 4 and Name of the Demo Interface of online Banking System
3. Do you want to assign any mini / major project to the students related to any topic? Yes No
   If Yes, mention the related UNIT No. ..... and the Project Name- .....
4. Are you going to arrange any industrial / Field / Laboratory visit? Yes No
   Name of Industry /Field/Lab visit - .....
5. Do you want to discuss a case studies related to the subject domain? Yes No
   If Yes, mention the UNIT No. ..... and Title of the case study - .....

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6. Do you want to focus on any simulation/gaming based learning in the subject? Yes No
   If Yes, mention the UNIT No. ..... and Name of the Simulation/Game- .....
7. Do you want to assign any mentor from industry /company to the students so that they can understand the subject well? Yes No
   If Yes, Name of the mentor and Industry name – .....
8. Is there any student club at department /college level related to the subject domain? Yes No
   If Yes, Number of students to be enrolled to the club –
9. Do you want to conduct any workshop related to the subject domain? Yes No
   If Yes, Name of the workshop- ..... No. of students enrolled
10. Do you want to invite any expert / guest from an industry related to the subject? Yes ✓ No
    If Yes, Name of the expert- Mr. Avinash Pingale Name of the Topic – Core Java
11. Do you want to empower the students to join an ad-on- course related to the subject? Yes No
    If Yes, Name of the Ad-on-courses available - .....No. of students to be enrolled
12. Do you want to empower the students to join a skill and practical oriented courses related to the subject? Yes No
    If Yes, Name of the course available - .....No. of students to be enrolled –
13. Do you want to show a few videos on advances, latest development and technology in the domain or subject? Yes ✓ No
    If Yes, Number of Videos to be shown (maintain the record)- 3
14. Any course available for the students w.r.t the subject domain at different learning platforms like Udemy, Coursera, Skillshare, MasterClass, Edx, Udacity etc. Yes No
    Name of the courses -

Part –B Participative Learning (Learning by participating) (Reference- NAAC Manual Pg. 75)

Participatory Learning and Action is a family of approaches, methods, attitudes, behaviours and relationships, which enable and empower people to share, analyze and enhance their knowledge of their life and conditions, and to plan, act, monitor, evaluate and reflect.

1. Do you want to ask open ended questions in the domain? Yes ✓ No
   UNIT No.- 1 Question 1:- Importance of Programming language
   UNIT No.- 3 Question 2:- Use of String Methods
   UNIT No.- 5 Question 3:- Use of Java Script in web Appln
2. Do you want to conduct group discussion/ Buzz sessions in the subject domain? Yes ✓ No
   UNIT No.- 3, 4 Topic - Applications of Java

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UNIT No.- 6.. Topic - Comparision of functional & logic programming Paradigms.

3. Do you want to use a question bowl approach in the discussion? Yes ✓ No

   Topic- Programming Language e.g. C++/Java

4. Do you want to conduct news analysis with the help of student on any topic? Yes No

   Unit No. ..... Example .....

5. Do you want to focus on peer learning w.r.t. the subject? Yes No

   Unit No. ..... Example .....

6. Do you want to use survey methods with the help of student to understand any topic? Yes No

   Unit No. ..... Example .....

7. Do you want to use Brainstorming session to understand the topic better? Yes No

   Unit No. ..... Name of the Topic .....

8. Do you want to conduct a small scale research in the subject domain with the help of students? Yes No

   Unit No. ..... Topic .....

9. Do you take any initiative with the help of the students to collect information related to a topic for better learning? Yes No

   Unit No. ..... Topic .....

10. Is there any possibility of using a critical incident in the subject domain for better teaching and learning? Yes No

    Unit No. ..... Incident .....

11. Do you want to use the approach of video viewing and discussion? Yes No

12. Do you want to use any other participatory approach or method or game in teaching and learning? Yes No

    Name of the approach /method/game - .....

Sign of Subject Teacher:

Sign of HoD

HOD
Computer Engineering
Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

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Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: Product Demo

Date and Time	08 May 2023
Event Venue	Lab no 331, 333
Organized by	Department of Computer Engineering
Targeted Audience	Students
Resource Person	NA

Activity Contents:
In this activity shown the actual demo of how programming language is used to create an interface for online banking system as well as other software interface. Use of language for front end as well as back end also.

Geo-tagged Photos:

Subject Teacher Prof. Renuka Gavli

HOD: Dr.Pankaj Agarkar

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Engineering, Lohegaon, Pune

Date: 08/05/23

Attendance

Academic Year: 2022-23 **Semester-II**

Class: SE **Subject:** PPL (Product demo)

Title of Best Practice –I/II: /

Activity Title: Actual Product shown to students. Product is

Sr. No.	Roll No	Name of the Student	Signature
1.	B-47	Gaurav Sonawane	
2.	B-63	Vighnesh Kunjir	
3.	B-66	Atharva Waghchoure	
4.	B-19	Nikhil Pawar	
5.	B-21	Pracii Samant	
6.	B-11	Pandharpurkar Advait Deepak	
7.	B-48	Himanshu Srivastava	
8.	B-58	Nivedita Tiwari	
9.	B-56	Tanaya Jagdale	
10.	B-57	Aditya Tathawade	
11.	B-20	Pawar Nitin	
12.	B-68	Indrawadan Yelwande	
13.	B-51	Suchet Sunil	
14.	B-65	Harshal Wagh	
15.	B-37	Ayush Shinde	
16.	B-46	Deepraj Sonawane	
17.	B-23	Pratik Salunkhe	
18.	B-9	Shruti Nikam	
19.	B-17	Komal Patil	
20.	B-69	Shaikh Shahrukh	
21.	B-70	Yeni Priti	
22.	B-33	Sanskruti Jo	

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23.	B-44	Simran Sah	Simransah
24.	B-15	Chinmayee Patil	Cpatil
25.	B-29	samruddhi Rokade	Rokade
26.	B-54	Supriya kumari	Supriya
27.	B-05	Vaishnavi Nalawade	Nalawade.
28.	B-74	Srushti Sonawane	Srushti
29.	B-76	Vaishnavi Pardeshi	VPardesH.
30.	B-26	Rishi Mewara	
31.	B-14	PARTH NAGPURE	Parth
32.	B-27	Ritesh kumar	
33.	B-02	Mazen Momin	
34.	B-07	Rushikesh sudhir Nighot	
35.	B-35	Shat Mohammed Semi	
36.	B-61	Onkar Vaidyakar	
37.	B-59	Grajendra Ugale	
38.	A-65	Amar Manjarathkar	
39.	A-09	Arya Shivam kumar	
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57.			

Subject Teacher

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Date: 23/03/2023

Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: **Video viewing & discussion**

Date and Time	23 March 2023
Event Venue	Class Room No. 334
Organized by	Department of Computer Engineering
Targeted Audience	Students
Resource Person	NA

Activity Contents:

In the videos contain how to use Programming languages for building websites. Different tools for building strong backend for large websites. Programming language like Java is a versatile tool. It works on various types of devices. For e.g. Laptop, Mobile, IPad etc. The android phones work on Java. Big data technologies are based on the concept of Java for mobile application development

Programming languages also used to build games, embedded software, medical technologies and automation in automobiles.

Geo-tagged Photos:

Subject Teacher: Prof Renuka Gavli HOD: Dr.Pankaj Agarkar

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Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412105.
Department of Computer Engineering
Form No. IQAC/28

Date: 23/03/2023

Attendance

Academic Year: 2022-23 **Semester-II**

Class: SE **Subject:** Video Viewing & discussion (PPL)

Title of Best Practice –I/II:

Activity Title: – Video & Group discussion on different programming languages used in the Company

Sr. No.	Roll No	Name of the Student	Signature
1.	A-12	Ayush V. Telrandhe	
2.	B-39	Shirsat Ashutosh Vijay	
3.	B-04	Rohankumar D. Mvadwale	
4.	B-06	Kedar Nanaware	
5.	B-40	Shitole Ujjwal Umesh	
6.	A-47	Jayesh B. Parmar.	
7.	B-71	Shubham Tapkir	
8.	B-13	Parth M. Tikhe	
9.	B-12	Parmar Dineshkumar	
10.	B-43	Siddharth Bodgujar	
11.	A-63	Piyush Mali	
12.	B-67	Jajwalya Wani	
13.	B-52	Gaurav Sukre	
14.	B-22	Pratik Gaikwad	
15.	B-61	Onkar Vaidyakar	
16.	A-27	Sandesh Dasade	
17.	A-66	Karan Mavale	
18.	B-45	Soham Sable	
19.	B-38	Vedant Shinde	
20.	B-53	Sumit Chanda.	
21.	B-25	Rathod Yu...	
22.	B-18	Subha... Patro	

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23.	B-08	Abhishek Dipak Nikam	
24.	A-04	Shrivardhan Pradeep Ambekar	
25.	B-34	Sejal Raykar	
26.	B-62	Vaishnavi Landge	
27.	B-30	Nikhil Sebane	
28.	B-28	Rohan S. Mane	
29.	B-60	Sahil S. Utekar	
30.	A-65	Arnav Manjarathkar	
31.	B-24	Priyal Kalal	
32.	B-33	Sanskriti Joshi	
33.	B-44	Simran Sah	
34.	B-69	Shaikh Shaharukh	
35.	B-70	Yenare Priti	
36.	B-9	Shruti Nikam	
37.	B-17	Komal Patil	
38.	B-46	Deepraj Sonawane	
39.	B-23	Pratik Salunkhe	
40.	B-65	Harshal Wagh	
41.	B-37	Anush Shinde	
42.	B-51	Sucheet Suri	
43.	A-73	Shivraj Tatal	
44.	A-75	Pratik Shinde	
45.	B-57	Aditya Tathawade	
46.	B-58	Niredita Tiwari	
47.	B-56	Tanaya Jagdale	
48.	B-11	Pandharpurkar Advait Deepak	
49.	B-48	Himanshu Srivastava	
50.	B-20	pawar Nitin	
51.	B-66	Atharva Waghchoure	
52.	B-47	Gaurav Sonawane	
53.	B-63	Vighnesh Kunjir	
54.	B-27	Ritesh Kumar	
55.	B-26	Rishi Mewara	
56.	B-54	Supriya Nanasa	
57.	B-05	Vaibhavi Atole	

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58.	B-74	Srushti Sonawane	Srushti
59.	B-76	Vaishnavi Pardeshi	Vpardeshi.
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Subject Teacher:

HoD: Dr.Pankaj Agarkar

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Date: 19/05/2023

Activity Report

Academic Year: 2022-23 **Semester-II**

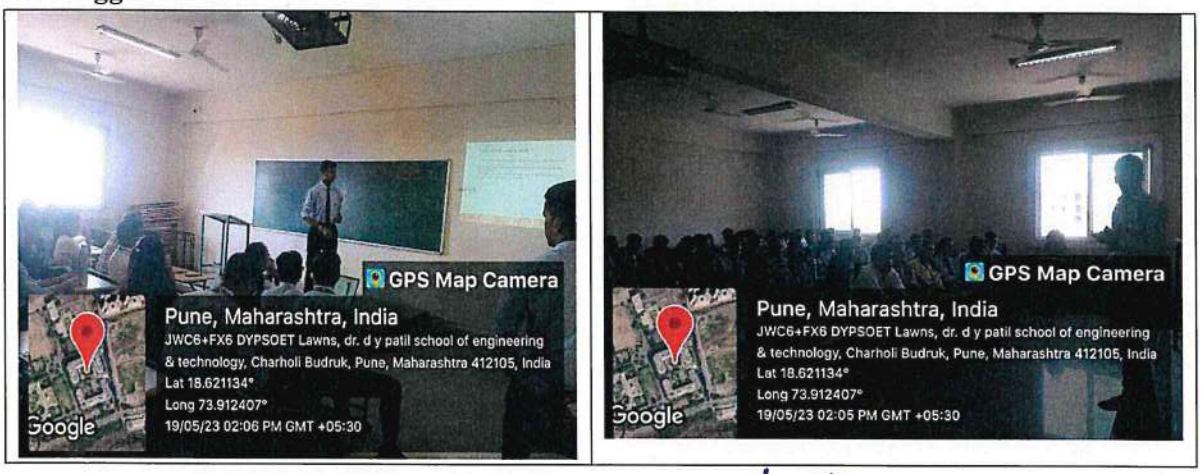
Best Practice I Activity: **Open Ended Questions**

Date and Time	19 May 2023
Event Venue	Class Room No. 326
Organized by	Department of Computer Engineering
Targeted Audience	Students
Resource Person	NA

Activity Contents:

In this activity an open ended question is a question that cannot be answered with a "Yes" or "No" response or with a static response. Open ended questions are phrased as a statement which requires a longer response. The response can be compared to information that is already known to the questioner.

Geo-tagged Photos:



Departmental Activity Coordinator: Prof. Swarupa Kamble.

Subject Teacher: Prof Renuka Gavli

HOD: Dr.Pankaj Agarkar

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Date: 23/03/23

Attendance

Academic Year: 2022-23 **Semester-II**

Class: SE **Subject:** PPL

Title of Best Practice –I/II:

Activity Title: Open ended question

Sr. No.	Roll No	Name of the Student	Signature
1.	13	Rohit Bagade	Rohit
2.	51	Pawan Katre	Katre
3.	07	Ansari Asrawnooj	Asra Ansari
4.	15	Bankar Rutuja	
5.	62	Sakshi Mahalle	Mahalle.
6.	71	Nandini kokare	
7.	17	Samruddhi. Bhende	S.Bhende
8.	55	Anushka. Konde.	Konde
9.	16	Prasanna Baviskar	PBaviskar
10.	57	Samyak Lagad	Lagad
11.	35	Vedant .Ghodekar	Ghodekar.
12.	24	Onkar vijay charhan	Charhan
13.	49	Pranav Kale	PKale
14.	52	Suraj. D. Khot	SKhot
15.	38	Prajakta M. Ghugare	PMghugare
16.	53	Harish Parshuram Kirve	Ghirve
17.	56	Advait Korde	Akorde.
18.	44	Rakesh. Kokrani	
19.	58	Nakul Lohakane	LohaNakul
20.	01	Aditi Priyadarshini Jadhav	
21.	18	Bhimashankar Bhuse	Bhuse
22.	19	Amruta Bisadar	Amb

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23.	14	Rohan Sanjay Bollarat	Bollarat
24.	29	Saraabh Bhagwat Dhole	Dhole
25.	60	Ankit Mahadik	
26.	64	Atharvaraj Mallav	Mallav
27.	36	Onkar Lithadke	Onkar
28.	74	Anshuman dhane	Anshuman
29.	41	Malhar Gujar	Malhar
30.	46	Dhanunjay Dhamunde	Dhanunjay
31.	72	Tejaswini kamble	Tejaswini
32.	70	Kirti chinta	Kirti
33.	B-64	Viraj Jadhav	
34.	22	Kajal Borude	Kajal B. Borude
35.	39	Supriya Tirthepurje	Supriya
36.	10	Astha J Raghuwanshi	Astha
37.	23	Kashish Chandwani	Kashish
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Subject Teacher

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Computer Engineering
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Best Practice – II

Bridging the Gap between Education and Employment through Industry Connect

Name of the faculty: - Prof. Renuka Gavli

Name of the Subject: - Principles of Programming Languages Class: SE Div: A & B

Sector of the industry Identified: - —

Name of the industry to be connected:- —

Plan of Action (PoA):- {Select at least five for each subject and map the outcome of activity}

1. Do you want to sign Sign MoU with the industry? Yes / No Tentative date to sign the MoU:- ...../...../2023
2. Are there any hot topics, areas, trends, advances, technologies in the industry sector? ✓ Yes / No
   Mention Names- Mobile Application Development
3. Do you want to identify issues, problems and challenges in the industry? Yes / No
   List the issues.....
4. Do you want to conduct the product survey of the industry with the help of students? Yes / No
5. Do you want to let the students to understand the website of the industry? ✓ Yes / No
6. Do you want to arrange a physical visit to the industry? ✓ Yes / No
7. Do you want to arrange a virtual visit of the industry? Yes / No
8. Do you want to arrange a guest lecture? ✓ Yes / No
   Title of the guest lecture -...Core Java.....
9. Is it possible to get sponsored project(s) from the industry for the final year students? Yes / No
10. Is it possible to get internship for the SE/TE students from the industry? Yes / No

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11. Do you want to write a conference paper/article on the best practices of the industry by involving students? Yes No

12. Do you want to arrange a hands-on workshop for the subject in collaboration with the industry? Yes No
    Title of the workshop - .....

13. Is there any skill development course available in the market w.r.t the subject? Yes No
    Title of the course -

14. Are there any skilling, upskilling, reskilling or multiskilling trainings /workshops available at NSDC/Skill India/Make in India for the subject? Yes No
    Names of the courses –

15. Do you want to motivate the students to participate in National/international employability tests or exams in the subject? Yes No
    Name of the tests - NPTEL, Udemy, Coursera

Sign of Subject Teacher:

Sign of HoD

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Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice II Activity: Motivated to students for Exam Participation

Date and Time	06 June 2023
Event Venue	Lab no 331, 333
Organized by	Department of Computer Engineering
Targeted Audience	Students
Resource Person	NA

Activity Contents:
In this activity information given about Full stack, NPTEL, Great Learning etc courses available related to programming languages in the market. Motivated students to enroll & give exam of that courses.

Geo-tagged Photos:

Subject Teacher Prof. Renuka Gavli HOD: Dr.Pankaj Agarkar

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Skill India
कौशल भारत - कुशल भारत

N·S·D·C
National
Skill Development
Corporation
Transforming the skill landscape

LearnVern
Franchise of TOPS Technologies

CERTIFICATE OF TRAINING

This is to certify that

Shinde Pratik Nanasaheb

having **CAN_13760360** has successfully completed training in

Advance Java Programming

from the period **Jul 2021 - Aug 2021**
at **LEARNVERN PVT LTD.**

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Date of Issue: 13-08-2021

Place: 6th Floor, Arjun Complex,
Shivranjani Cross Road,
Ahmedabad, Gujarat 380009

Certificate Id: CAN_137603601158073

https://www.learnvern.com/certificate

Signing Authority: LearnVern Private Limited

Issued by: LEARNVERN
Franchise of TOPS Technologies Pvt Ltd.
An Approved Training Partner of NSDC

Great Learning

CERTIFICATE OF COMPLETION

Presented to

Prajakta Ghugare

For successfully completing a free online course

Java Programming

Provided by

Great Learning Academy

(On May 2023)

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Great Learning

CERTIFICATE OF COMPLETION

Presented to

Nakul Lohakane

For successfully completing a free online course

Java Algorithms

Provided by

Great Learning Academy

(On May 2023)

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TECHNOGEEKS

CERTIFICATE
OF COMPLETION

Rupesh Ranjeet Borse

is certified by Technogeeks as

Full Stack Training using Java

3rd Floor, Plot No 7, Common Wealth Society, Opposite Aundh Telephone Exchange,
Landmark : Gaikward Petrol Pump Aundh, Pune, Maharashtra, India
https://technogeekscs.com

FS-1137
CERTIFICATE ID

2023/03/12
DATE

AUTHORIZED SIGNATURE

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Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice II Activity: **Latest area, technology & Website of industry**

Date and Time	19/05/2023
Event Venue	Lab no 331, 333,330
Organized by	Department of Computer Engineering
Targeted Audience	Students
Resource Person	NA

Activity Contents:

This activity shown the large use of programming languages in website development as well as latest area of Mobile Application development

It is a list of the most popular and best programming languages that will be used in developing Mobile Application.

Java, Kotlin, C#, Javascript, C and C++

iOS Programming Languages

The iOS platform was created by Apple. If you develop an iOS app, it will work across the Apple ecosystem like iPhones and iPads. Apps built using an iOS programming language can be made available on the Apple App Store for users to download.

iOS development languages—Objective-C and Swift.

Android application Languages

You need to get the Android development toolkit that has debuggers, emulators, and the required SDK. The best integrated development environment (IDE) for Android app development is Android Studio

Two Android programming languages—Java and Kotlin.

Here is a list of top tech companies and the main programming languages they are using.

Google

Front-end: JavaScript, TypeScript.

Back-end: Java, C, C++, Python, Go.

Apple

Front-end: JavaScript, PHP.

Back-end: Java, Python, Perl, Ruby.

YouTube

Front-end: JavaScript.

Back-end: Java, C, C++, Python, Go.

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Twitter
Front-end: JavaScript.
Back-end: Java, C++, Scala, Ruby.

Geo-tagged Photos:

Subject Teacher Prof. Renuka Gavli

HOD: Dr.Pankaj Agarkar

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Date: 19/05/2023

Attendance

Academic Year: 2022-23 **Semester-II**

Class: SE **Subject:** PPL

Title of Best Practice –I/II:

Activity Title: Latest Area & technologies, Top websites

Sr. No.	Roll No	Name of the Student	Signature
1.	A-9	Arya Shivam Kumar	
2.	A-31	Ganesh Ashok Gagare	
3.	A-28	Arey S. Deshmukh	
4.	A-25	NAFISH CHOUDHARY	
5.	A-69	Pranjal Vikram Deshmukh	
6.	A-48	Shruti Jagdand	
7.	A-54	Snehal Kolsepatil	
8.	A-03	Akshita Kumari	
9.	A-32	Gauri Walke	
10.	A-43	Hitendra Sirvi	
11.	A-21	Aditya Bobade	
12.	A-46	Aditya Jagtap	
13.	B-32	Saloni Vilas Mahadik	
14.	B-42	Shreya Darekar	
15.	B-49	Srushti Dedkar	
16.	B-41	Shivani Bhujbal	
17.	B-31	Sakshi Kusalkar	
18.	B-72	Nayana Dongade	
19.	A-41	Gaurav Gujar	
20.	A-74	Anshuman AJAY Dhane	
21.	B-55	Swapnil Kapase	
22.	B-73	Kale Suraj	

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23.	A-72	Tejaswini kamble	
24.	A-70	Kirti chinta	
25.	A-76	Dhananjay Bamhandle	
26.	B-77	Digambar B. Kothawale	
27.	B-75	Rupesh R. Borse	
28.	A-36	Onkar Lathodkr	
29.	B-55	Swapnil Kapase	
30.	B-10	Om gondhawar	
31.	B-64	Viraj Jadhav	
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Subject Teacher

HOD
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Best Practice – I

Competency Based Education and Assessment

Name of the faculty: - Shakti Kaushal

Name of the Subject :- IoT (Internet of Things)

Department: AI & DS

Class: SE Div: A & B

Competency Based Learning (Part A and Part B)

It is an active, adaptive, experiential and participatory learning where students' choice and voice are present in order to bring variety and variation in learning.

Note- Part A and B should cover latest developments, advancements, innovations and technologies in the subject domain.

{Select at least Three from each of Part-A & Part-B for every subject and map the outcome of activity}

Part A- Experiential Learning (Learning by Doing) (**Reference**: NAAC Manual Pg. 72)

Is a process of learning through experience and is more specifically defined as "learning through reflection on doing".

The following statements/ questions are related to the subject you teach in this semester

1. Is it possible to develop any prototype or model by the students related to the subject? Yes ✓ No
   If Yes, mention the related UNIT No. 5 and Prototype Name - .....
2. Do you want to show any product demo to the students related to any topic / UNIT? Yes ✓ No
   If Yes, mention the related UNIT No. 4 and Name of the Demo - .....
3. Do you want to assign any mini / major project to the students related to any topic? Yes ✓ No
   If Yes, mention the related UNIT No. 6 and the Project Name- Countdown Timer
4. Are you going to arrange any industrial / Field / Laboratory visit? Yes No ✓
   Name of Industry /Field/Lab visit - .....
5. Do you want to discuss a case studies related to the subject domain? Yes No ✓
   If Yes, mention the UNIT No. ..... and Title of the case study .....

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6. Do you want to focus on any simulation/gaming based learning in the subject? Yes / No
   If Yes, mention the UNIT No. ...6..... and Name of the Simulation/Game- AR Game Gun
7. Do you want to assign any mentor from industry /company to the students so that they can understand the subject well? Yes / No
   If Yes, Name of the mentor and Industry name – .....
8. Is there any student club at department /college level related to the subject domain? Yes / No
   If Yes, Number of students to be enrolled to the club –
9. Do you want to conduct any workshop related to the subject domain? Yes / No
   If Yes, Name of the workshop- ..... No. of students enrolled –
10. Do you want to invite any expert / guest from an industry related to the subject? Yes / No
    If Yes, Name of the expert-..... Name of the Topic – .....
11. Do you want to empower the students to join an ad-on- course related to the subject? Yes / No
    If Yes, Name of the Ad-on-courses available - .....No. of students to be enrolled –
12. Do you want to empower the students to join a skill and practical oriented courses related to the subject? Yes / No
    If Yes, Name of the course available - .....No. of students to be enrolled –
13. Do you want to show a few videos on advances, latest development and technology in the domain or subject? Yes / No
    If Yes, Number of Videos to be shown (maintain the record)-
14. Any course available for the students w.r.t the subject domain at different learning platforms like Udemy, Coursera, Skillshare, MasterClass, Edx, Udacity etc. NPTEL Yes / No
    Name of the courses - IoT and its application

Part –B Participative Learning (Learning by participating) (Reference- NAAC Manual Pg. 75)

Participatory Learning and Action is a family of approaches, methods, attitudes, behaviours and relationships, which enable and empower people to share, analyze and enhance their knowledge of their life and conditions, and to plan, act, monitor, evaluate and reflect.

1. Do you want to ask open ended questions in the domain? Yes / No
   UNIT No.- ..6.. Question 1:- ..B Learn & Teach What are the application of IoT?
   UNIT No.- ..3.. Question 2:- ..Life Cycle of IoT.....
   UNIT No.- ..4.. Question 3:- ..Different computer network devices.
2. Do you want to conduct group discussion/ Buzz sessions in the subject domain? Yes / No
   UNIT No.- ..4.. Topic - ..WSN.....

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UNIT No.- 3. Topic - ...Introduction of IoT.....

3. Do you want to use a question bowl approach in the discussion? Yes ✓ No
   Topic- ...Lifecycle of IoT, ~~...~~ M2M, Types of IoT
4. Do you want to conduct news analysis with the help of student on any topic? Yes No
   Unit No. ..... Example .....
5. Do you want to focus on peer learning w.r.t. the subject? Yes ✓ No
   Unit No. ...5 & 6.... Example .....
6. Do you want to use survey methods with the help of student to understand any topic? Yes ✓ No
   Unit No. .....6..... Example .....
7. Do you want to use Brainstorming session to understand the topic better? Yes No ✓
   Unit No. ..... Name of the Topic .....
8. Do you want to conduct a small scale research in the subject domain with the help of students? Yes No ✓
   Unit No. ..... Topic .....
9. Do you take any initiative with the help of the students to collect information related to a topic for better learning? Yes ✓ No ✓
   Unit No. ..... Topic .....
10. Is there any possibility of using a critical incident in the subject domain for better teaching and learning? Yes No ✓
    Unit No. ..... Incident .....
11. Do you want to use the approach of video viewing and discussion? Yes ✓ No
12. Do you want to use any other participatory approach or method or game in teaching and learning? Yes ✓ No
    Name of the approach /method/game - ..Learn & Teach.....

Sign of Subject Teacher:

Sign of HoD

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Best Practice – II

Bridging the Gap between Education and Employment through Industry Connect

Name of the faculty :- Prof. Shakti Kaushal

Name of the Subject :- IoT Class: B.E. Div: A&B

Sector of the industry identified: - .....

Name of the industry to be connected:- .....

Plan of Action (Plan Wise) {Select at least five for each subject and map the outcome of activity}

1. Do you want to Sign MoU with the industry? Yes [ ] No [✓] Tentative date to sign the MoU:- ...../..../2023
2. Are there any activities, areas, trends, advances, technologies in the industry sector? Yes [ ] No [✓]
   Mention Name :- .....
3. Do you want to identify issues, problems and challenges in the industry? Yes [ ] No [✓]
   List the issues :- .....
4. Do you want to conduct the product survey of the industry with the help of students? Yes [ ] No [✓]
5. Do you want the students to understand the website of the industry? Yes [ ] No [✓]
6. Do you want to arrange a physical visit to the industry? Yes [✓] No [ ] KonfHub
7. Do you want to arrange a virtual visit of the industry? Yes [ ] No [ ]
8. Do you want to arrange a guest lecture? Yes [✓] No [ ] 1
   Title of the guest lecture -.....
9. Is it possible to get sponsored project(s) from the industry for the final year students? Yes [ ] No [✓]
10. Is it possible to get internship for the SE/TE students from the industry? Yes [ ] No [✓]

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11. Do you want [illegible] a conference paper/article on the best practices of the industry by involving st[illegible] Yes ☐ No ☑

12. Do you want [illegible] a hands-on workshop for the subject in collaboration with the industry?
Title of the [illegible] ..... Yes ☐ No ☑

13. Is there any [illegible] elopment course available in the market w.r.t the subject? Yes ☐ No ☑
Title of the [illegible]

14. Are there an[illegible] upskilling, reskilling or multiskilling trainings /workshops available at, NSDC/Skill [illegible] like in India for the subject? Yes ☐ No ☑
Names of the [illegible]s –

15. Do you wan[illegible] ivate the students to participate in National/international employability tests or exams in [illegible] ject? Yes ☐ No ☑
Name of the [illegible] .....

Sign of Subj[illegible] cher:

Sign of HoD

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Ajeenkya DY Patil School of Engineering Lohegaon, Pune

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Activity Report

Academic Year: 2022-23

Best Practices 2 : Peer to Peer activity on Project Based Learning in IoT

Date and Time	3rd May 2023
Event Venue	Lab No. 313
Organized by	Department of Artificial Intelligence and Data Science
Targeted Audience	Students
Resource Person	N/A

Activity Contents:

Vridhi Sachdev, A student from the third year of our department took the initiative to organize an insightful session on project-based learning with a specific focus on the Internet of Things (IoT). The session provided the students with a comprehensive understanding of IoT devices like Arduinos, electric equipment, and sensors. Through practical demonstrations and step-by-step instructions, they learned how to effectively interface these devices and write sketches for their functioning. The session further elaborated on the process of uploading these sketches onto the devices, enabling to gain hands-on experience in implementing IoT projects.

The knowledge shared during this session proved to be invaluable, as it equipped them with the necessary skills and expertise to undertake and execute successful IoT projects. The emphasis on project-based learning allowed the students to grasp the practical aspects of IoT and understand its real-world applications. By engaging with Arduinos, electric equipment, and sensors, they developed a deeper understanding of their functionalities and how they can be integrated to create innovative IoT solutions.

By providing practical guidance and hands-on demonstrations, the session equipped students with the necessary skills to interface IoT devices, write sketches, and upload them for successful project implementation. The emphasis on project-based learning fostered creativity and innovation among the students, allowing them to apply their knowledge to real-world scenarios.

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Geotagged Photos:

Activity Coordinator : Prof. Shakti Kaushal

HoD : Prof. Bhagyashree Dhakulkar

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Date: 3/ 05/ 2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: Peer to Peer activity on PBL in IoT

Sr. No.	Name of the Participant	Signature
01	Bhagwat D. Koli	
02	Bhumika Kote	
03	Atharva Sangle	
04	Sanket Khare	
05	Vaibhav A. Waghmare	
06	Ritik Kumbhakar.	
07	Pranav Kadam	
08	Shreyash S. Marathkar	
09	Shashank Kushwaha	
10	Aditya Patil	
11	Rohan Shelar	
12	PRATAV JADHAV	
13	Bhanudas Thorbole	
14	Sarvadnya Sonawane	
15	Mohammed Mezajuddin	

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16	Harshan Attar	
17	Rahul Talwar	
18	Sanket Kamanna	
19	Vaishnavi Dekate	
20	Snehal Chendage	
4	Mansi Ingale	
22	Pranali Gopane	
23	Sharvari Kudia	
44	Atharva Vaidpathak	
25	Navneet Narayan	
26	Sushant Patil	
27	Utkarsh Kumar	
28	Chinmay pathak	
29	Sujal Uttekar	
30	Avinash Salunke	
301	Shek Devendra	
52	Anmol S. Gavali	
53.	Aniket B Nerkar	
55.	Omkar Darekar	

Name and Sign of Coordinator:

Departmental Event Coordinator:

HoD:

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Date: 13 /06/2023

Event Report

Academic Year: 2022-2023 **Semester-I/II**

Name of the event: IOT(Internet Of Things) Gaming With IOT

Date and Time	13 th June 2023, Time:- 11:00am-12:00pm
Event Venue	Room No:-313, Department of AIDS, Floor No:-3
Organized by	Ajeenkya Dy Patil School Of Engineering
Targeted Audience	Students Of Second Year Engineering (B DIVISION)
Resource Person	**Mrs.Shakti Kaushal**

Event Contents:

1. Improving The Interactive Way of studying
2. Students explaining the models that were made by them
3. Improving the concepts of IOT microprocessors and microcontrollers by dictating the model points from the topic that were taken by them
4. A good way for students to learn how to incorporate the use of game modules with IOT.

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Details of the event:

The event started at 11:00 am in room no:-313 in the AIDS department.

Title: Gaming with IoT: Enhancing User Experience and Connectivity

1. **Introduction**

The convergence of gaming and the Internet of Things (IoT) has transformed the way we interact with and experience games. IoT technology has paved the way for new gaming possibilities, connecting devices, and creating immersive gameplay experiences. This report explores the impact of IoT on gaming, highlighting its benefits, challenges, and future potential.

2. **Enhancing User Experience**

2.1. Connected Devices: IoT allows gamers to connect various devices, such as consoles, smartphones, wearables, and controllers, providing seamless integration and enhanced gameplay experiences.

2.2. Real-time Data Tracking: IoT sensors embedded in gaming peripherals can track real-world movements and translate them into in-game actions, enabling immersive virtual reality (VR) and augmented reality (AR) experiences.

2.3. Personalization and Customization: IoT devices enable personalized gaming experiences by collecting user preferences and adapting gameplay elements accordingly. Customizable game controllers and accessories further enhance user immersion.

3. **Multiplayer and Social Connectivity**

3.1. Seamless Multiplayer Experience: IoT facilitates effortless connectivity between gamers, allowing for smooth multiplayer experiences with minimal setup requirements. Players can collaborate, compete, and communicate with each other across devices and platforms.

3.2. Cloud Gaming: IoT-based cloud gaming platforms leverage the power of distributed computing and low-latency networks to stream games to various devices, eliminating the need for high-end hardware and expanding accessibility for gamers.

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3.3. Social Integration: IoT-enabled gaming platforms can integrate with social media platforms, enabling gamers to share their achievements, gameplay clips, and interact with their friends and communities, fostering a sense of community and engagement.

4. Challenges and Security Considerations

4.1. Data Privacy and Security: The increased connectivity and data exchange in IoT gaming raise concerns about data privacy and security. Manufacturers and developers must implement robust security measures to protect user information and gaming environments.

4.2. Compatibility and Interoperability: With a wide range of IoT devices and platforms, ensuring compatibility and interoperability can be challenging. Standardization efforts are crucial to create a seamless gaming experience across different devices and ecosystems.

4.3. Reliability and Latency: IoT-based gaming heavily relies on stable and low-latency network connections. Internet outages, network congestion, or high latency can disrupt gameplay and degrade user experience.

5. Future Trends and Potential

5.1. Mixed Reality Gaming: IoT, combined with technologies like AR and VR, will further blur the boundaries between the physical and digital worlds, creating immersive mixed reality gaming experiences.

5.2. Smart Gaming Environments: IoT can integrate with smart home technologies, enabling gaming experiences that extend beyond the screen. Intelligent lighting, haptic feedback systems, and environmental control can enhance immersion and create dynamic gameplay environments.

5.3. Enhanced Analytics and Personalization: IoT-generated data can offer valuable insights into player behavior, preferences, and performance. Game developers can leverage this data to create personalized experiences, adaptive difficulty levels, and targeted content.

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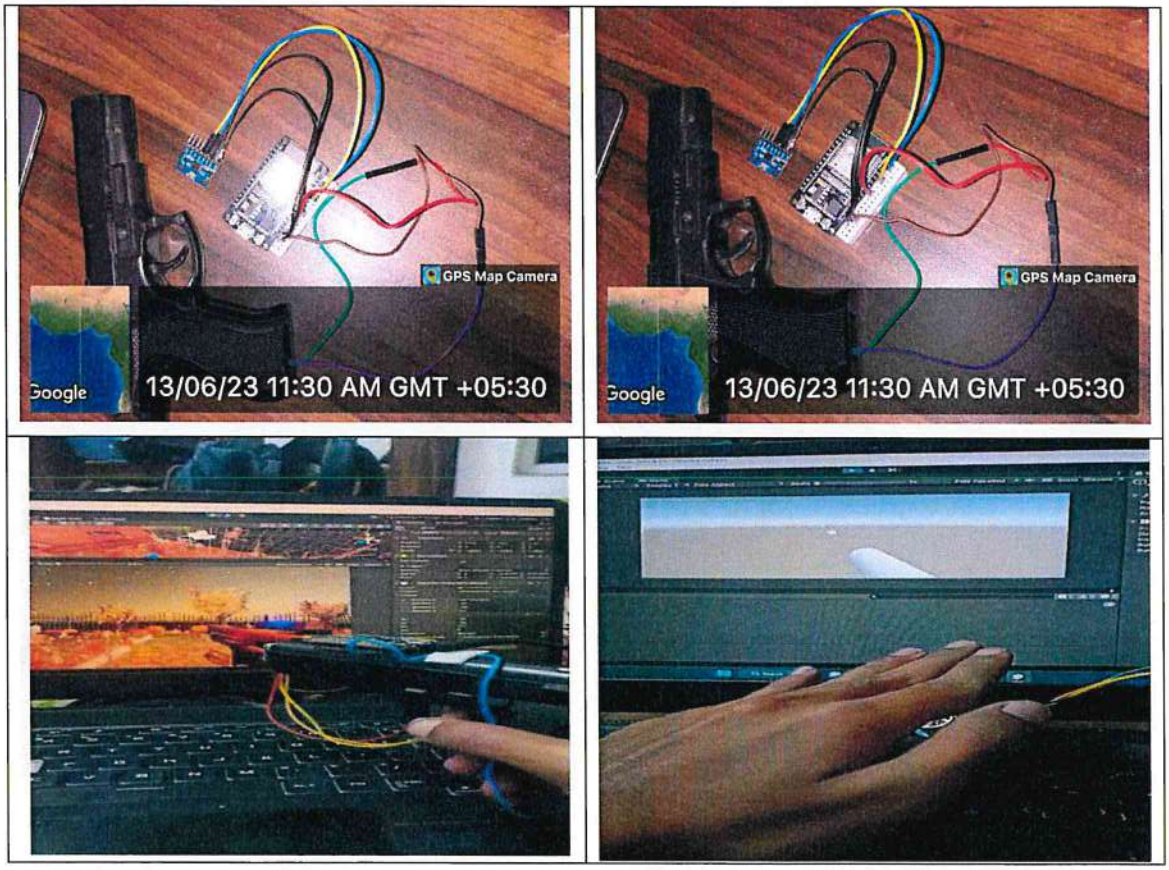
6. **Conclusion**

IoT has revolutionized the gaming industry, offering enhanced user experiences, seamless connectivity, and expanded possibilities. Despite challenges related to security and compatibility, the future of gaming with IoT looks promising. As technology continues to advance, we can expect even more immersive, personalized, and interconnected gaming experiences in the years to come.

Geotagged Photos:



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Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

Name and Sign of Coordinator:**Mrs.Shakti Kaushal**

Departmental Event Coordinator: **Mrs.Shakti Kaushal**

HoD:**Mrs.Bhagyashree Dhakulkar**

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Date:

Attendance

Academic Year: 2022-23 **Semester-II**

Class: SE **Subject:** IoT

Activity Title: Gaming with IoT

Sr. No.	Roll No	Name of the Student	Signature
1.	B-35	Aniket Rawate	
2.	B-32	Priyam Sarkhel	
3.	B-42	Sankalp Salve	
4.	B-36	Rithik Kumbhakar	
5.	B-33	Rajan Thkur	
6.			
7.			
8.			
9.			

Subject Teacher:

HoD: Prof. Bhagyashree Dhakulkar

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Date: 1 /06/2023

Event Report

Academic Year: 2022-2023 **Semester-I/II**

Name of the event: IOT (Internet Of Things) Gaming and VR industry trip

Date and Time	1 st June 2023, Time:- 12:00pm-2:00pm
Event Venue	Pop Tate's, 1St Floor, Inorbit Mall, Vashi, Navi Mumbai, Maharashtra
Organized by	Konfub
Targeted Audience	Engineering students from various colleges
Resource Person	**Mr.Nikhil Malankar , Mr.Yash Bhalkar**

Event Contents:

1. Improving The Interactive Way of studying
2. Students explaining the models that were made by the leading gaming industries CEO
3. Students experiencing how gaming industry work with other technologies.
4. A good way for students to learn how to incorporate the use of game modules with IOT.

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Details of the event:

The event started at 12:00 pm in Pop Tate's, 1St Floor, Inorbit Mall, Vashi, Navi Mumbai, Maharashtra

Title: Gaming and Virtual Reality (VR): Revolutionizing the Gaming Experience

1. Introduction

Virtual Reality (VR) has emerged as a groundbreaking technology that has revolutionized the gaming industry. This report explores the integration of gaming and VR, examining the impact of VR on gameplay, user experience, and the future potential of this immersive technology.

2. Immersive Gameplay Experience

2.1. Realistic Environments: VR transports players into fully immersive virtual worlds, providing a heightened sense of presence and immersion. Players can explore, interact, and engage with virtual environments, offering a more immersive gaming experience.

2.2. Enhanced Interaction: VR allows players to physically interact with the virtual environment and objects within the game, utilizing motion controllers or specialized input devices. This level of interactivity adds a new dimension to gameplay, enabling more realistic and intuitive interactions.

2.3. Spatial Audio: VR gaming incorporates spatial audio techniques that provide a 360-degree sound experience, making the gameplay more immersive. Sound cues can enhance player orientation, positional awareness, and overall gameplay immersion.

3. Diverse Game Genres and Experiences

3.1. Adventure and Exploration: VR opens up new possibilities for adventure and exploration games. Players can venture into vast virtual worlds, uncover hidden treasures, and experience breathtaking landscapes in a more immersive and engaging manner.

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3.2. First-Person Shooters (FPS): FPS games in VR offer an unparalleled level of immersion, allowing players to physically aim, shoot, and take cover. The sense of presence and realism intensifies the thrill and excitement of gameplay.

3.3. Puzzle and Strategy Games: VR enhances puzzle-solving and strategy games by enabling players to manipulate objects, solve intricate puzzles, and strategize in a three-dimensional space. This adds a new level of depth and engagement to these genres.

3.4. Social and Multiplayer Experiences: VR enables players to connect and interact with each other in virtual spaces, facilitating multiplayer experiences. Players can communicate through voice chat, gestures, and body movements, fostering a sense of presence and social connection.

4. Challenges and Advancements

4.1. Hardware Requirements: VR gaming typically requires high-performance hardware, including powerful computers or gaming consoles and dedicated VR headsets. Cost and accessibility can be barriers to entry for some gamers.

4.2. Motion Sickness: Motion sickness is a common challenge in VR gaming due to the disparity between visual and physical movement. Game developers are continually improving locomotion techniques and optimizing VR experiences to reduce the occurrence of motion sickness.

4.3. Content and Game Design: Developing compelling and immersive VR experiences requires a different approach to game design. Developers must consider factors such as locomotion methods, user comfort, and player interaction to create enjoyable and engaging experiences.

5. Future Possibilities and Innovations

5.1. Wireless VR: Advancements in wireless technologies will eliminate the need for tethered connections, offering greater freedom of movement and enhancing the overall VR gaming experience.

5.2. Haptic Feedback and Body Tracking: Future VR systems may incorporate advanced haptic feedback technologies, allowing players to feel physical sensations

within the virtual world. Additionally, improved body tracking can enable more accurate representation of player movements, further enhancing immersion.

5.3. Cross-Platform VR: The development of cross-platform VR capabilities will enable players to experience VR games on various devices, fostering a larger player base and promoting accessibility.

5.4. Mixed Reality Integration: The integration of VR with other emerging technologies, such as augmented reality (AR) and IoT, can create mixed reality experiences that blend virtual and physical elements, opening up new possibilities for gaming and interaction.

6. Conclusion

Gaming and VR have converged to create a transformative gaming experience, providing players with immersive and realistic gameplay environments. Despite challenges related to hardware requirements

SPECIAL THANKS TO:-

Geotagged Photos:

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Activity Coordinator: Prof. Shakti Kaushal

HoD: Prof.Bhagyashree Dhakulkar

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Date: 1/6/23

Attendance

Academic Year: 2022-23 **Semester-II**

Class: SE **Subject:** IOT

Activity Title: Industry visit

Sr. No.	Roll No	Name of the Student	Signature
1.	B-32	Priyam Sakhel	Sakhel
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			

Subject Teacher: Shakti Kaushal

HoD: Prof. Bhagyashree Dhakulkar

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Date:25/ 05/2023

Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: **IoT open ended questions**

Date and Time	25 May 2023
Event Venue	Class Room No. 302
Organized by	Department of Artificial Intelligence and Data Science
Targeted Audience	Students
Resource Person	NA

Activity Contents:

Open-ended questions are designed to help students reflect on their feelings and elaborate on their experiences. Such questions encourage students to share more details about their skills, knowledge and experiences. Question is mentioned below:

Unit No.6	Q1. What are the applications of IoT? Difference between Telemetry and Telematics.
Unit No.2	Q2. What is the life cycle of IoT?
Unit No.5	Q3. What are the different network devices and its applications?

Geo-tagged Photos:

Activity Coordinator: Prof. Shakti Kaushal

HoD: Prof. Bhagyashree Dhakulkar

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Date: 25/05/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: IoT Open ended Questions

Sr. No.	Name of the Participant	Signature
1.	Sarvadnya S. Sonawane.	Sarvadnya
2.	Shreyas Gimhavanekar.	
3.	Abhishek Bhandwalkar	Bhandwalkar
4.	Shahil D. Ambule	S.D.Ambule
5.	Dinesh A. Salunkhe	
6.	Ajit Jadhav	Ajit
7.	Krushna Ghatkar	Krushna
8.	Akshay Thombre	
9.	PRITHVIRAJ GHORPADE	
10.	Om. dabade	Om
11.	Aditya Jadhav	
12.	Ayushi S Lanjewar	Ayushi.
13.	Sharayu Benkar	Benkar.
14.	Utkarsha Chavan	Utkarsha.
15.	Sakshi Shewale	Sakshi.

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16.	Ganesh Badalche	
17.	Harshal Ghugal	
18.	Avadhoot Dalimbkar	
19.	Prerana Kawade	
20.	Kartiki Joshi	
21.	Saraswati Chaluvadi	
22.	Nagesh Khichade	
23.	Atharva Jadhav	
24.	Ameya Karale	
25.	Bhagwat Koli	
26.	Anurag Amale	
27.	Brumika Somnath Kote	
28.	Rohan shelar	
29.	Shreyash S. Mazerkar	
30.	Pranav Kadam	
31.	Pravad Lolchande	
32.	Sonal Kabukade	
33.	Aarya Manjrekar	
34.	Aditya Patil	
35.	Rittik Kumbhakar	
36.	Kshitij Kolhe	
37.	Bhagyashri B. Patil	
38.	Milind Patekar	
39.	Vaibhav. Hupte	

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40.	PRANAV JADHAV	
41.	Aadooth Dhumal	
42.	Vishwatej Kashid	
43.	Prathamesh Gorekar	
44.	Lata Ratan Gawade	
45.	Mhaske Sakshi	
46.	Pawar Rutuja	
47.	Atharva Sangle	
48.	Aditya Sarode	
49.	Christopher Gawari	
50.	Atharva Vedpathak	
51.	Aniket Pore	
52.	Sharvari Kudia	
53.	Sarvesh Desai	
54.	Aniket Rawate	

Name and Sign of Coordinator:

Departmental Event Coordinator:

HoD:

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Date: 22 /05/2023

Event Report

Academic Year: 2022-2023 **Semester-II**

Name of the event: IOT (Internet of Things) MINI PROJECT COUNTDOWN TIMER

Date and Time	22 th May 2023
Event Venue	Room No:-313, Department of AIDS, Floor No:-3
Organized by	Ajeenkya DY Patil School of Engineering
Targeted Audience	Students
Resource Person	**NA**

Event Contents:

1. Improving The Interactive Way of studying
2. Students explaining the models that were made by them
3. Improving the concepts of IOT microprocessors and microcontrollers by dictating the model points from the topic that were taken by them
4. A good way for students to learn how to explain topics and remember those in the form for future interviews.

Details of the event:

Students were asked to tell about the topics of their model. Also those students who were unable to deliver the projection time were asked to listen with the rest of the students so that they can gain knowledge about different topics and then can also improve their models in near future. It was a very interactive and a great learning experience for the students.

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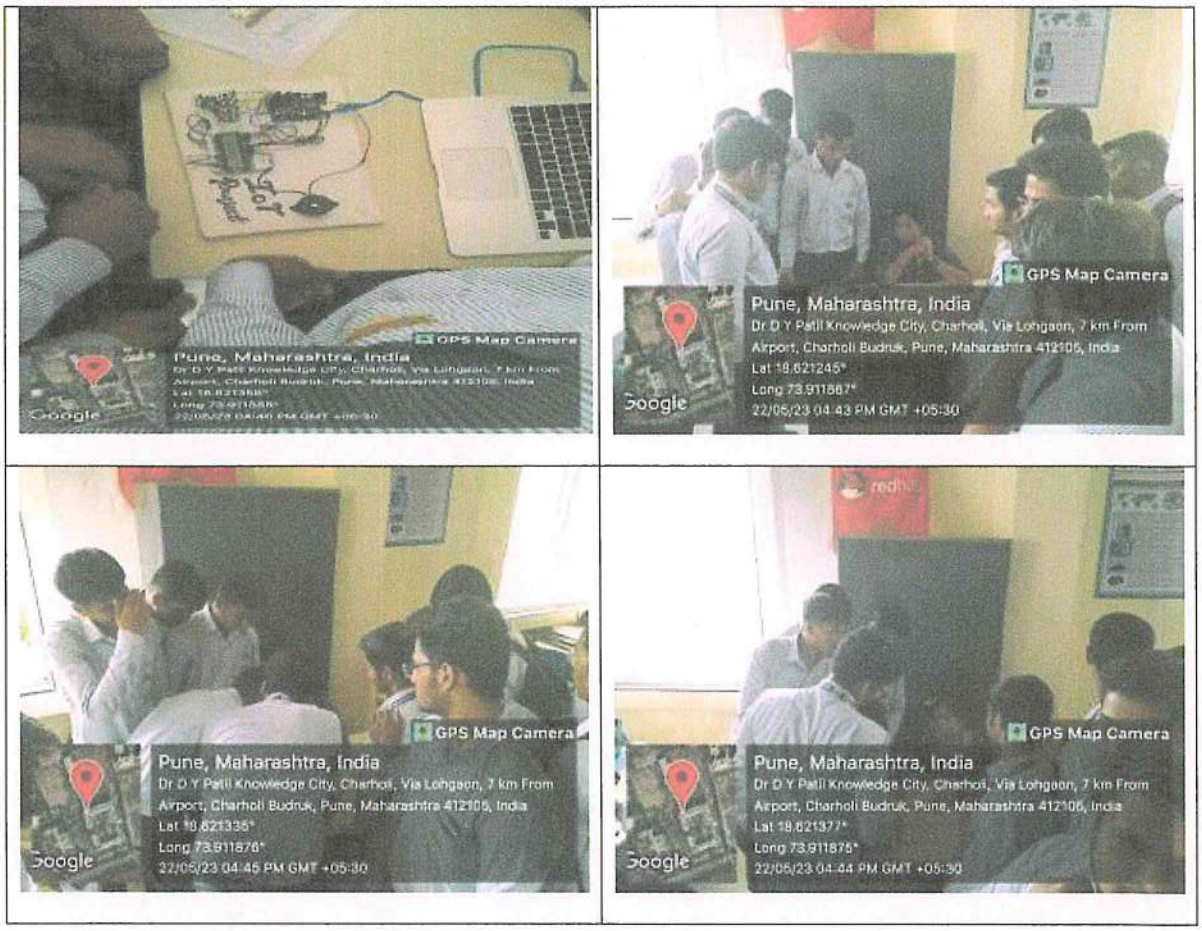
Geotagged Photos:



Activity Coordinator: **Prof. Shakti Kaushal**

HoD: **Mrs.Bhagyashree Dhakulkar**

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Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105.
Department of Artificial Intelligence and Data Science Engineering
Form No. IQAC/28

Date 22/05/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: IoT Mini Project

Sr. No.	Name of the Participant	Signature
1.	Ritik Kumbhakar	Ritik
2.	Bhagwat D. Koli	
3.	Bhumika Kole	Bhumika.
4.	Atharwa Sangle	Atle.
5.	Sanket Khore	
6.	Rohan Shelar	
7.	PRATIK JADHAV	
8.	Pranav Kadam	
9	Shashank Kushwaha	
10.	Aditya Patil	Apatil
11.	Vaibhav A. Waghmare	
12.	Shreyash S. Morotkar	
13.	Pratik Malaycm	
14.	Bhanudas Thorat	
15.	Mohammed Merajuddin	

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16	Sarvadnya Sonawane	
17	Harshan Attar	
18	Sanket Kamanna	
19	Vaishnavi Dekate	
20	Snehal Chendage	
21	Mansi Ingale	
22	Aniket Ovhal	
23	Pranali Gopane	
24	Atharva Vaidpathak	
25	Sharvari Kudia	
26	Utkarsh Kumar	
27	Navneet Narayan	
28	Chinmay Pathak	
29	Sujal Uttekar	
30	Sushant Patil	
31	Avinash Salunke	
32	Devendra Shete	
33	Amol D. Ceresa	
34	Aniket B. Nerkar.	

Name and Sign of Coordinator:

Departmental Event Coordinator:

HoD:

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Activity Report

Academic Year: 2022-23 **Semester-II**

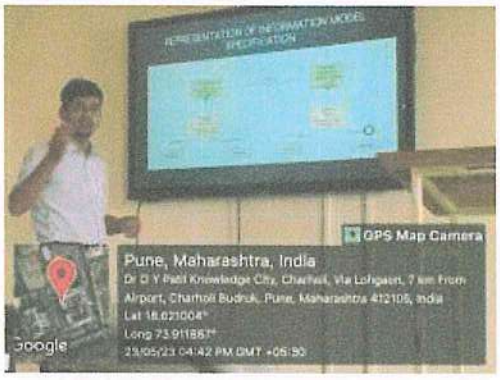
Best Practice I Activity: **Showing the video on Information model Specification**

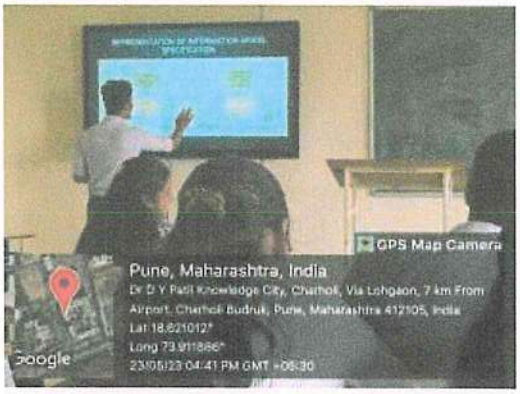
Date and Time	23 May 2023
Event Venue	Class Room No. 302
Organized by	Department of Artificial Intelligence and Data Science
Targeted Audience	Students
Resource Person	NA

Activity Contents:

The video contains, extendible Hashing, main features of Extendible Hashing, basic Structure of Extendible Hashing, basic Working of Extendible Hashing, handling of overflow condition , Key observation, advantages and limitations of extendible hashing.

Geo-tagged Photos:





Activity Coordinator: Prof. Shakti Kaushal

HoD: Prof. Bhagyashree Dhakulkar

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Date: 23/ 5/ 2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: Showing the video

Sr. No.	Name of the Participant	Signature
1.	Abhishek Bhandwalkar	Abhandwalkar
2.	Akshay Thombre	
3.	Krushna Ghatkar	
4.	Sharayu S. Benkar	SBenkar.
5.	Ayshi Lanjewar	Ayushi
6.	Sarvadnya S. Sonawane	Sarvadnya
7.	Aman Khandale	
8.	Meshka Dhumal	
9.	Niranjan Khade	
10.	Utkarsha Chavan	Utkarsha
11.	Sakshi shewale	Sakshi
12.	Shreyas Gimhavanekar	
13.	Bhagwat D. Koli	
14.	Sonal kabukade	SK
15.	Avadhoot Dalimbkar	Apd

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Ajeenkya DY Patil School of Engineering UBUS Engineering

Ajeenkya DY Patil School of Engineering Lohegaon, Pune

16.	Nayanesh Bhagade	Nayanesh
17.	Varun Dhamode	
18.	Aditya Jadhav	
19.	Ajit Jadhav	
20.	Harshal Ghugal	Ghugal
21.	Ganesh Badakhe	
22.	PRITHVIRAJ GHORPADE	
23.	Om dobade	
24.	Avadooth Dhumal	
25.	Vishwatej Kashid	Kashid
26.	Prathamesh Gorakar	
27.	Prerana Kawade	
28.	Komal Barbate	
29.	Nagesh Khichade	Nagesh
30.	kartiki Joshi	Joshi
31.	Vaibhav . Hiple	
32.	Ameya Karale	
33.	PRANAV JADHAV	
34.	Christopher Gawari	
35.	Atharva Jadhav	
36.	Anurag Amale	
37.	Bhumika Kote	Bhumika
38.	Shreyash S. Mesakar	
39.	Ankit Pore	

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40.	Rohan Shelar	
41.	Pranav Kadam	
42.	Rittik Kumbhakar	Rittik
43.	Prasad Ioknande	
44.	Lata Gavade	
45.	Milind Patekar	
46.	Atharva Sangle.	
47.	Pawar Rutuja	
48.	Mahesh Sakoli	
49.	Aditya Parode	
50.	Atharva Vadpathak	
51.	Sharvari Kadia	
52.	Shreyash	
53.	Aarya Manjrekar	Aarya
54.	Sarvesh Desai	
55.	Aniket Rawale	Aniket

Name and Sign of Coordinator:

Departmental Event Coordinator:

HoD:

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Date:1/05/2023

Activity Report

Academic Year: 2022-23

Guest Lecture on **Development of IoT and its Applications**

Date and Time	1st May 2023
Event Venue	Microsoft Teams (Online)
Organized by	Department of Artificial Intelligence and Data Science
Targeted Audience	Students
Resource Person	Mr. Pramod Hankare

Activity Contents:

Mr. Pramod Hankare (an Industry 4.0 Delivery Manager at ITC Infotech) recently delivered an online guest lecture in our department, enlightening us about the Internet of Things (IoT). He shared valuable insights on the extensive applications and benefits of IoT, emphasizing its significant role in today's technological advancements. He also discussed the driving factors behind the success of IoT and highlighted the challenges it faces. In addition, he emphasized the crucial role we can play in shaping the future of IoT, encouraging us to actively contribute to its development and implementation.

In his informative online guest lecture, He provided a comprehensive overview of the Internet of Things (IoT) and its wide-ranging applications. He shed light on the various industries and sectors where IoT is being utilized, showcasing its potential to revolutionize processes and enhance efficiency. Mr. Hankare delved into the key factors fueling the success of IoT, such as advancements in connectivity, data analytics, and cloud computing.

Moreover, he addressed the challenges faced by IoT, including security concerns and the need for robust infrastructure. Encouraging active participation, He emphasized the important role we can play in driving IoT innovation forward, fostering collaboration, and leveraging our skills to address the evolving needs and possibilities of this transformative technology.

In conclusion, the online guest lecture by the speaker provided a comprehensive overview of the Internet of Things (IoT) and its impact on various industries.

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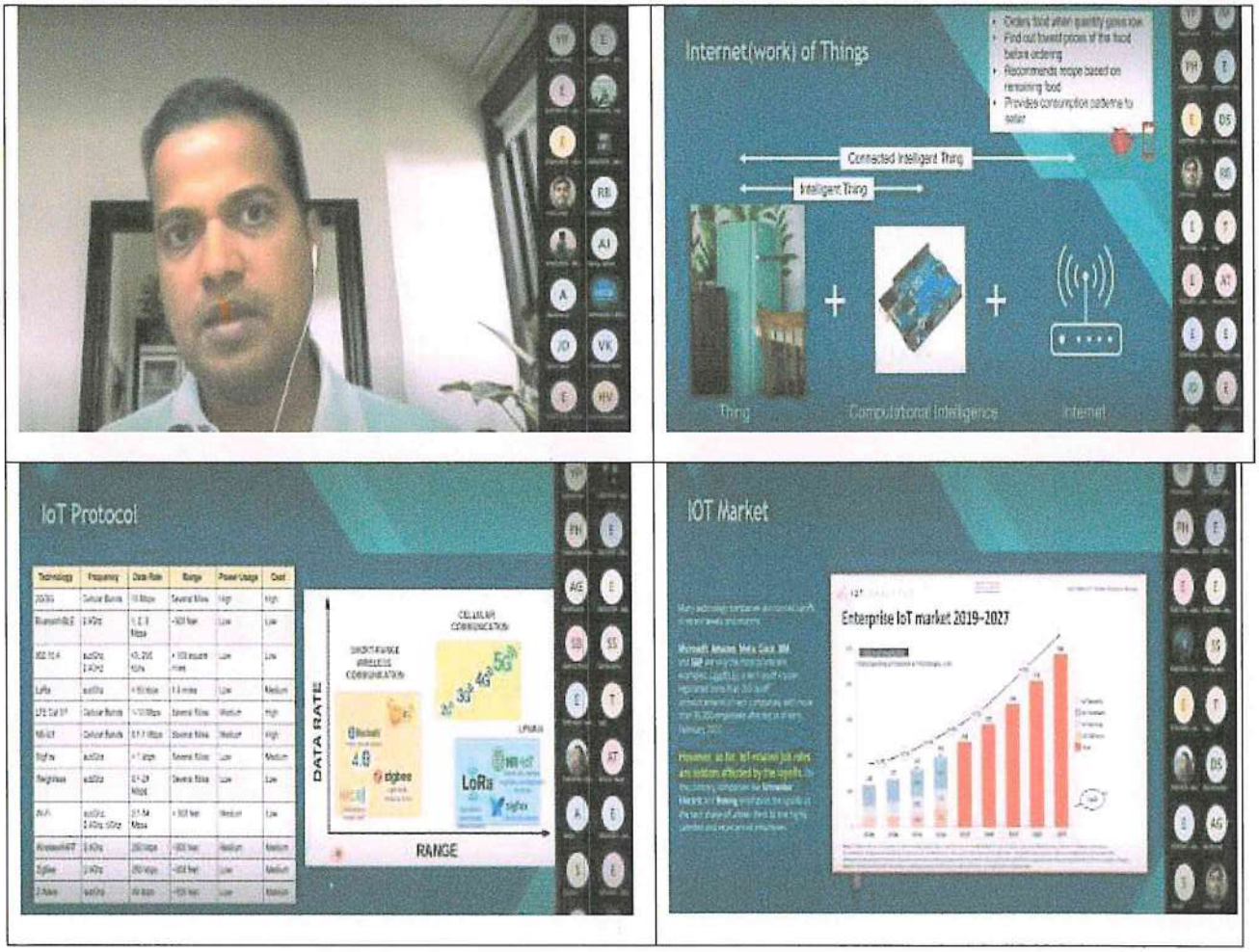
Session Photos:



ActivityCoordinator : Prof. Shakti Kaushal

HoD : Prof. Bhagyashree Dhakulkar

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Date: 1 /05/ 2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: Guest Lecture on IoT

Sr. No.	Name of the Participant	Signature
1.	Meshka Dhumal	
2.	Dinesh A. Salunkhe	
3.	Abhishek Bhandwalkar	
4.	Shreyas Gimhavanekar	
5.	Sarvadnya S. Sonawane	
6.	Krushna Ghatkar	
7.	Aman Khandale	
8.	Akshay Thombre	
9.	Niranjan Khude	
10.	Shahil D. Ambule.	
11.	Sharayu S. Benkar	
12.	Ayushi Lanjewar	
13.	PRITHVIRAJ GHORPADE	
14.	Sakshi Shewale	
15.	Utkarsha Chavan	

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16	Varun Dhamode	
17	Aditya Jadhav	
18	Ajit Jeelhav	
19	Ganesh Badalche	
20	Harshal Bhugal	
21	Avadooth Dhumal	
22	shivam Deune	
23	Praveena Kawade	
24	Avadhoot Dalimbkar	
25	Niket Pore	
26	Komal Bachate	
27	Sonal kabukade	
28	Bhanudas thorbole	
29	Nagesh Khichade	
30	Atharva Jadhav	
31	Vaibhav Huple	
32	Saraswati Chalveli	
33	PRANAV JADHAV	
34	Ameya Karale	
35	Vishwajeej Kashid	
36	Christopher Gawari	
37	Rathamesh Gorekar	
38	Anurag Amale	
39	Ritik Kumbhakar	

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D.Y. Patil School of Engineering
Lohegaon, Pune
Ajeenkya

40	Bhagwat - D. Koli	
41	Rohan Shelar	
42	Pranay Kadam	
43	Aditya Patil	Apatil
44	Shreyash S. Morotkar	
45	~~Sharvari Kudia~~	~~S. kudai~~
46	Sharvari Kudia	S. kudai
47	Aditya Sarode	~~ASS~~
48	Atharwa Sangle	Sangle
49	Kolte Kshitij	
50	Lata Gawade	
51	Atharwa . Sangle	Sangle
52	Atharva Vedpathak	
53	Sarvesh Desale	
54	Aniket Rawale	ANiket

Name and Sign of Coordinator:

Departmental Event Coordinator:

HoD:

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Date: 16 /05/2023

Event Report

Academic Year: 2022-2023 **Semester-I/II**

Name of the event: IOT(Internet Of Things) Bowl Activity

Date and Time	16 th May 2023, Time:- 1:00pm-2:00pm
Event Venue	Room No:-303, Department of AIDS, Floor No:-3
Organized by	Ajeenkya Dy Patil School Of Engineering
Targeted Audience	Students Of Second Year Engineering (B DIVISION)
Resource Person	**Mrs.Shakti Kaushal**

Event Contents:

1. Improving The Interactive Way of studying
2. Students explaining the topics that were given
3. Improving the Memory of the students by remembering points from the topic that were taught in the lectures
4. A good way for students to learn how to explain topics and remember those in the form of a revision

Details of the event:

The event started at 1:00 pm in room no:-303 in the AIDS department under the guidance of Mrs.Shakti Kaushal. Students were asked to take out chits from the bowl in roll no wise order and were given 3 minutes to think about the topic and 2 minutes to talk about the topic.Also those students who were unable to give the right answer were asked to listen from the audience or the rest of the class the right answer so that in near future they does not forget it and provide with the right answer in the exam. It was a very interactive and a great learning experience for the students.

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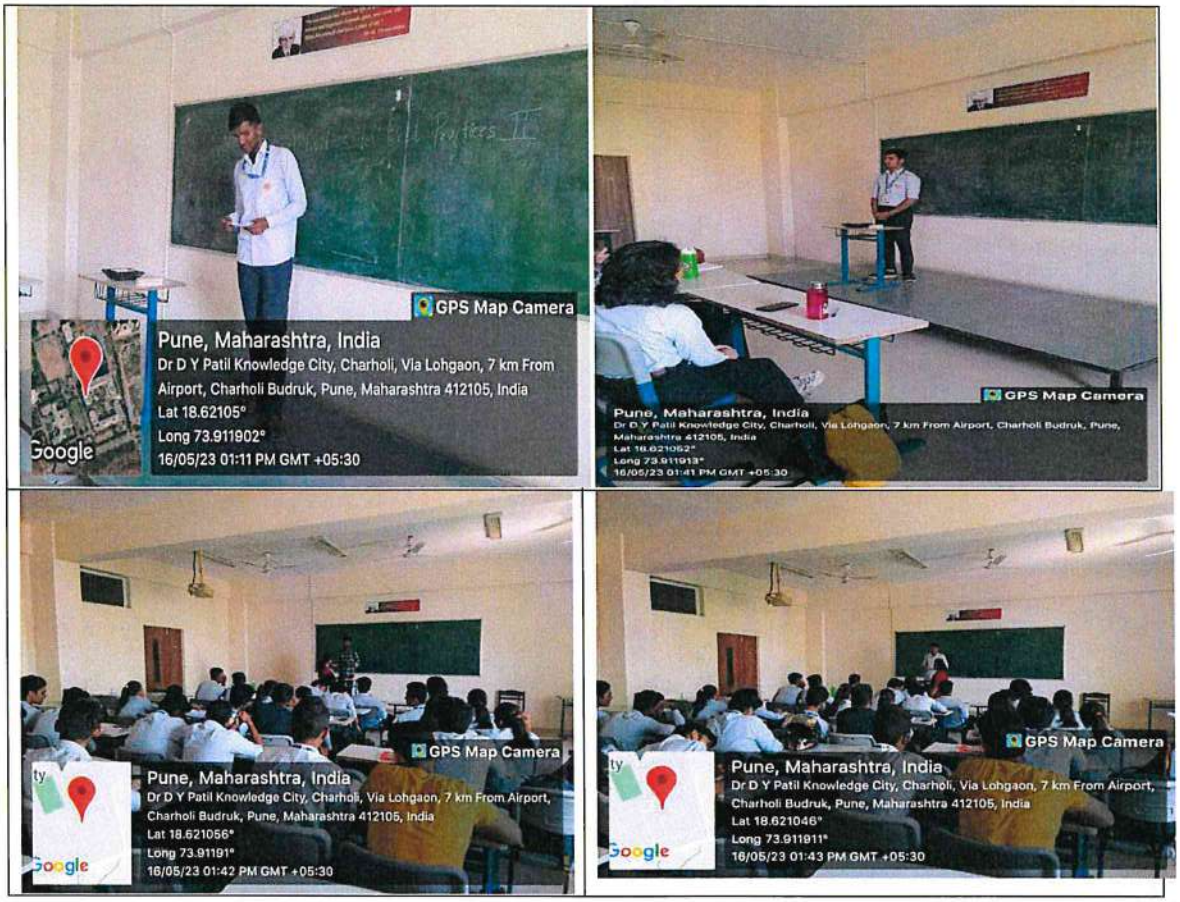
Geotagged Photos:



Name and Sign of Coordinator:Mrs.Shakti Kaushal

Departmental Event Coordinator: Mrs.Shakti Kaushal

HoD:Mrs.Bhagyashree Dhakulkar

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Lohegaon, Pune

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Date: 16/5/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: IOT Bowl Activity

Sr. No.	Roll No.	Name of the Participant	Signature
1]	B-59	Rahul Bhau Talvar	
2]	B-05	Om kumbhar	
3]	B-17	Pawan Wanawane	
4)	B-26	Bhagyashri B. Patil	
5]	B-14	Mhase Sakshi Avinash	
6)	B-30	Pranav Kadam	
7)	B-10	Akash . R. Madhavan	
8)	B-08	Lata Gawade	
9)	B-52	Pallavi Shinde	
10)	B-41	Avinash Salunke	
11)	B-02	Kshitij Kolte	
12)	B-66	Atharva Vedpathak	
13)	B-47	Sarvesh Desale	
14)	B-53	Shantanu Shinde	
15)	B-13	Mayur Chaudhari	
16)	B-16	Atharva More	

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17	B-11	Aarya Manjrekar	Aarya
18	B-03	Bhumika Kote	Bhumi
19	B-61	AYUSH THAKARE	A
20	B-51	Shewale Sakshi	Shuk
21	B-65	Utkarsha chavan	Utkarsha
22	B-38	Rutul D. Bhosale	Rutul
23	B-49	Rohan Shelar	रोहन
24	B-12	Shreyash S. Marothkar	
25	B-23	Chinmay Pathak	Pkathak
26	B-64	Utkarsh Kumar	Utkarsh
27	B-21	Atharva pajankar	Atharv
28	B-67	Harsh vishwakarma	Harsh
29	B-75	Yash Thakur	YT
30	B-36	Rittik Kumbhakar	Rittik
31	B-56	Sarvadnya J. Sonawane	Sarvadnya
32	B-63	Shantanu Trigune	
33	B-55	Prajakta Sonawane	PSonawane
34	B-73	Shruti P. Walunj	Shruti
35	B-19	Aniket Nerkar	Aniket
36	B-32	Priyam Sarkhel	PS
37	B-22	Milind Patekar	MP
38	B-68	Manav Waghmare	MW
39	B-50	Shete Devendra	Shete
40	B-42	Sankalp Shalve	

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41	B-7	Akshata landge	Akshata
42	B-1	Bhagwat D. Koli	Koli
43	B-09	Prasad lokhande	BL
44	B-24	Aditya Patil	Apatil

Name and Sign of Coordinator: Shanti Kaushal Shakti

Departmental Event Coordinator: Shanti Kaushal Shakti

HoD: Prof.Bhagyashree Dhakulkar

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Activity Report

Academic Year: 2022-23 **Semester-II**

SE - A

Best Practice I Activity**: Peer to Peer Activity**

Date and Time	13 March 2023
Event Venue	Class 302
Organized by	Department of Artificial Intelligence and Data Science
Targeted Audience	Students
Resource Person	N/A

Activity Contents:

In a departmental peer-to-peer activity, students were assigned topics to research and present among their peers under the guidance of Mrs. Shakti Kaushal. They conducted thorough research and organized their content to ensure a logical flow. During the presentations, students effectively communicated their ideas, supported them with evidence, and engaged their classmates. This activity promoted collaborative learning, enhanced presentation skills, and deepened understanding of the subject matter. It also encouraged active participation, critical thinking, and fostered a collaborative classroom environment.

After each presentation, a brief question-and-answer session or a group discussion could be held to allow the audience to clarify doubts, share their thoughts, or engage in further exploration of the topic.

Through this process, students had the opportunity to share their knowledge, learn from their peers, and develop important communication and analytical skills that are valuable both academically and professionally.

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Geotagged Photos:

Thanking You,

Yours Faithfully,

HOD
AI&DS Engineering
Ajeenkya DY Patil School of Engineering
Lohegaon, Pune

HOD : Mrs. Bhagyashree Dhakulkar

Subject teacher : Mrs. Shakti Kaushal

Class Teacher : Mrs. Priyanka Waghmare

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Date: 13/ 03/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: Peer to Peer Activity

Sr. No.	Roll No.	Name of the Participant	Signature
	A-46	Anmol S. Ceirose	
	A-48	Pranali L. Gopane	
	A-40	Suraj Gawade	
	A-21	Ganesh Bodalche	
	A-74	Gururaj Khule	G.U. Khule
	A-43	PRITHVIRAJ GHORPADE	
	A-29	Omkar Darekar	
	A-38	Sumit Gaikwad	
	A-37	Aditya Ekhande	
	A-39	Harshal R. Gangurde	
	A-31	Shivam Shriram Devne	
	A-49	Prathamesh Govekar	
	A-25	Christopher Gawari	
	A04	Anurag Amale	
	A-65	Krishna Karkhanis	
	A-64	Ameya Karale	

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	A-69	Aman Khandale	
	A-58	PRANAV VIKAS JADHAV	
	A-67	Vishwatej Kashid	
	A-34	Avadooth Dhumal	
	A-55	Aditya Jadhav	
	A-42	Krushna Ghatkar	
	A-18	Abhishek Bhandwalkar	
	A-29	Omkar Darekar	
	A-43	PRITHVIRAJ GHORPADE	
	A-38	sumit. Gaikwad	
	A-37	Aditya Ekhande	
	A-39	Harshal R. Gangurde	
	A-31	Shivam shriram Deone	
	A-70	Om Khandve	
	A-02	Mayuresh sudhir Aher	
	A-56	Jadhav Ajit	
	A-32	Varun Dhamode	
	A-57	Atharva Jadhav	
	A-73	Niranjan Khude	
	A-07	Aniket Pore	
	A-51	Gunjan Gandhi	
	A-23	Baly Chavan	
	A-53	Vaibhav. Huple	
	A-50	Nayanesh Bugale	

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	A-24	Snehal chendage	Snehal
	A20	Sahil Bidadar	Sahil
	A-30	Vaishnavi Ratnakar Dekate	Dekate.
	A-33	Ashwini Anant Dhare	Ashwini.
	A-75	Prajwal kinde	Kinde
	A-26	Creflo Coelho	Creflo.
	A-41	Geetansh Chopra	Geetansh
	A-35	Meshika Dhumal	Dhumal
	A-36	Dinesh Salunkhe	Dinesh
	A-06	Shahil Ambule.	Shahil
	A-63	Siddhi Kale	Siddhi
	A-23	Jay Dake	Jay
	A-09	Anushka Pansare	Anushka pansare
	A-16	Sujeet Borole	Borole
	A-68	Prerana Kawade	Prerana
	A-66	Kartiki Joshi	Kartiki
	A-22	Saraswati Chaudhari	Saraswati
	A-15	Komal Bachate	Komal.
	A-17	Sharayu Benkar	Benkar.
	A-14	Ayushi Ranjewar	Ayushi
	A-60	Jigyasa Choudhari	
	A-10	Ashutosh Nagane	Ashutosh
	A-11	Sandeep Athani	Sandeep
	A-27	Om Dabadi	Om
	A-24	Harshal Ghugal	Ghugal

Name and Sign of Coordinator:

Departmental Event Coordinator:

HoD: Prof.Bhagyashree Dhakulkar

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Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: **IoT buzz session**

Date and Time	17 May 2023
Event Venue	Class Room No. 301
Organized by	Department of Artificial Intelligence and Data Science
Targeted Audience	Students
Resource Person	NA

Activity Contents:

There may be nothing more exciting than watching students engage in a class discussion. The student was talk about their assigned question while the rest of the class listen them talk. In this activity students are divided in two teams (Division A and B) and questions on IoT was asked to both team members by subject teacher, and those who knew the answer have to give buzzer, on first come first serve basis activity conducted and accordingly score is given to finalize the winner team of event. This activity is conducted on unit 4, 5 and 6.

Geo-tagged Photos:

Activity Coordinator: Prof.Shakti Kaushal

HOD: Prof. Bhagyashree Dhakulkar

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Date: 17/05/ 2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: IoT Buzz Session

Sr. No.	Name of the Participant	Signature
1.	Shreyas Gimhavanekar	
2.	Abhishek Bhandwalkar	Abhandwalkar
3.	Shahil .D. Ambule	S.D.Ambule
4.	Dinesh A. Salunkhe.	Dsunkhe.
5.	Sanadnya S. Sonawane	
6	Varun Dhamode	
7.	Ajit Jadhav	
8	Aman Khandale	
9	Aditya Jadhav	
10.	Akshay Thombre	
	Narayan Khude	
	Nayanesh Bugale	
	Krushna Ghatkar	
	PRITHVIRAJ GHORPADE	
	om dabade	

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	Sakshi Shewale	Sakshi.
	Utkarsha Chavan	Utkarsha.
	Sharayu benkar	sBenkar.
	Ayushi Lanjewar	Ayush:
	Harshal Ghugal	Ghugal
	Ganesh Bodalhe	
	Shivam Devne	Shivam
	Avadooth Dhumal	
	Avadhoot Dalimbkar	Dupd
	Vishwajeej kashid	Okashid.
	Vaibhav. Hupke	
	Prerana Kawade	Prerana
	PRATAV JADHAV	Jpv
	Bhanudas thorbole	Bhanu
	Sonal kabukade	Sk
	Komal Barbate	Kombal.
	Aniket Pore	
	Kathiki Joshi	Kjoshi
	Anagwat D. Koli	

Name and Sign of Coordinator: Gauri.

Departmental Event Coordinator: Gauri

HoD: Dhulla

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Geotagged Photos:

Activity Coordinator : Prof. Shakti Kaushal

HoD : Prof. Bhagyashree Dhakulkar

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Ajeenkya DY Patil School of Engineering * Lohegaon, Pune

Best Practice – I

Competency Based Education and Assessment

Name of the faculty: - ....Prof....Poonam....Suresh....Nagale.

Name of the Subject :- ...DSA.....

Department: .....AI & DS.....

Class: ..S.E.... Div: ...B.....

Competency Based Learning (Part A and Part B)

It is an active, adaptive, experiential and participatory learning where students' choice and voice are present in order to bring variety and variation in learning.

Note- Part A and B should cover latest developments, advancements, innovations and technologies in the subject domain.

{Select at least Three from each of Part-A & Part-B for every subject and map the outcome of activity}

Part A- Experiential Learning (Learning by Doing) (**Reference**: NAAC Manual Pg. 72)

Is a process of learning through experience and is more specifically defined as "learning through reflection on doing".

The following statements/ questions are related to the subject you teach in this semester

1. Is it possible to develop any prototype or model by the students related to the subject? ✓Yes No
   If Yes, mention the related UNIT No. ...03..... and Prototype Name - .Fish Finder....
2. Do you want to show any product demo to the students related to any topic / UNIT? Yes No
   If Yes, mention the related UNIT No. ..... and Name of the Demo - .....
3. Do you want to assign any mini / major project to the students related to any topic? Yes No
   If Yes, mention the related UNIT No. ..... and the Project Name- .....
4. Are you going to arrange any industrial / Field / Laboratory visit? Yes No
   Name of Industry /Field/Lab visit - .....
5. Do you want to discuss a case studies related to the subject domain? ✓Yes No
   If Yes, mention the UNIT No. ...04..... and Title of the case study - ...Heap Sort
   06. - File orgnization

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6. Do you want to focus on any simulation/gaming based learning in the subject? Yes No

   If Yes, mention the UNIT No. ..... and Name of the Simulation/Game- .....

7. Do you want to assign any mentor from industry /company to the students so that they can understand the subject well? Yes No

   If Yes, Name of the mentor and Industry name – .....

8. Is there any student club at department /college level related to the subject domain? Yes No

   If Yes, Number of students to be enrolled to the club –

9. Do you want to conduct any workshop related to the subject domain? Yes No

   If Yes, Name of the workshop- ..... No. of students enrolled –

10. Do you want to invite any expert / guest from an industry related to the subject? Yes No

    If Yes, Name of the expert-..... Name of the Topic – .....

11. Do you want to empower the students to join an ad-on- course related to the subject? Yes No

    If Yes, Name of the Ad-on-courses available - .....No. of students to be enrolled –

12. Do you want to empower the students to join a skill and practical oriented courses related to the subject? Yes No

    If Yes, Name of the course available - .....No. of students to be enrolled –

13. Do you want to show a few videos on advances, latest development and technology in the domain or subject? Yes No

    If Yes, Number of Videos to be shown (maintain the record)-

14. Any course available for the students w.r.t the subject domain at different learning platforms like Udemy, Coursera, Skillshare, MasterClass, Edx, Udacity etc. Yes ✓ No

    Name of the courses - Data Structures and Algorithms

Part –B Participative Learning (Learning by participating) (Reference- NAAC Manual Pg. 75)

Participatory Learning and Action is a family of approaches, methods, attitudes, behaviours and relationships, which enable and empower people to share, analyze and enhance their knowledge of their life and conditions, and to plan, act, monitor, evaluate and reflect.

1. Do you want to ask open ended questions in the domain? Yes ✓ No

   UNIT No.- 1 Question 1:- What are the applicat° of DSA & How Hashing is used?

   UNIT No.- 2 Question 2:- What is BT & How to Check if given tree is

   UNIT No.- 6 Question 3:- what is File orgnization & How Indexing BST helps to orgnize the files

2. Do you want to conduct group discussion/ Buzz sessions in the subject domain? Yes ✓ No

   UNIT No.- 4 Topic - BT, OBST, AVL & Red Black Tree

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AI&DS Engineering

UNIT No.- ..... Topic - .....

3. Do you want to use a question bowl approach in the discussion? Yes / No
   Topic- ..... Graph .....
4. Do you want to conduct news analysis with the help of student on any topic? Yes / No
   Unit No. ..... Example .....
5. Do you want to focus on peer learning w.r.t. the subject? Yes / No
   Unit No. ..05..6... Example ..Insert? & Del? in B., B+ Indexing & Types of Indexing
6. Do you want to use survey methods with the help of student to understand any topic? Yes / No
   Unit No. ..... Example .....
7. Do you want to use Brainstorming session to understand the topic better? Yes / No
   Unit No. ..... Name of the Topic .....
8. Do you want to conduct a small scale research in the subject domain with the help of students? Yes / No
   Unit No. ..... Topic .....
9. Do you take any initiative with the help of the students to collect information related to a topic for better learning? Yes / No
   Unit No. ..... Topic .....
10. Is there any possibility of using a critical incident in the subject domain for better teaching and learning? Yes / No
    Unit No. ..... Incident .....
11. Do you want to use the approach of video viewing and discussion? Yes / No
12. Do you want to use any other participatory approach or method or game in teaching and learning? Yes / No
    Name of the approach /method/game - .....

Poonam

Prof. Poonam Nagale

Sign of Subject Teacher:

Sign of HoD

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UNIT No.- .5.. Topic - .B..tree.,...B+.tree.,...insert?,Delet?, Trie Tree & Indexing.

3. Do you want to use a question bowl approach in the discussion? Yes No
   Topic- .....
4. Do you want to conduct news analysis with the help of student on any topic? Yes No
   Unit No. ..... Example .....
5. Do you want to focus on peer learning w.r.t. the subject? Yes No
   Unit No. ..... Example .....
6. Do you want to use survey methods with the help of student to understand any topic? Yes No
   Unit No. ..... Example .....
7. Do you want to use Brainstorming session to understand the topic better? Yes No
   Unit No. ..... Name of the Topic .....
8. Do you want to conduct a small scale research in the subject domain with the help of students? Yes No
   Unit No. ..... Topic .....
9. Do you take any initiative with the help of the students to collect information related to a topic for better learning? Yes No
   Unit No. ..... Topic .....
10. Is there any possibility of using a critical incident in the subject domain for better teaching and learning? Yes No
    Unit No. ..... Incident .....
11. Do you want to use the approach of video viewing and discussion? Yes ✓ No
    Extended hashing
12. Do you want to use any other participatory approach or method or game in teaching and learning? Yes No
    Name of the approach /method/game - .....

Poonam

Prof. Poonam S. Nagale.

Sign of Subject Teacher:

Sign of HoD

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Best Practice – II

Bridging the Gap between Education and Employment through Industry Connect

Name of the faculty: Prof. Poonam S. Nagale

Name of the Subject: DSA Class: SE Div: B

Sector of the industry identified: - .....

Name of the industry connected:- .....

Plan of Action (Select at least five for each subject and map the outcome of activity)

1. Do you want to sign MoU with the industry? Yes / No Tentative date to sign the MoU:- .....
2. Are there any issues, areas, trends, advances, technologies in the industry sector? Yes / No
   Mention Name: .....
3. Do you want to discuss staffy issues, problems and challenges in the industry? Yes / No
   List the issues: .....
4. Do you want to conduct the product survey of the industry with the help of students? Yes / No
5. Do you want the students to understand the website of the industry? Yes / No
6. Do you want to arrange a physical visit to the industry? Yes / No
7. Do you want to arrange a virtual visit of the industry? Yes / No
8. Do you want to arrange a guest lecture? Yes / No
   Title of the guest lecture -.....File Processing / File Orgnization
9. Is it possible to get sponsored project(s) from the industry for the final year students? Yes / No
10. Is it possible to get furnished lab for the SE/TE students from the industry? Yes / No

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Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: **DSA Certification from different learning platform**

Date and Time	23 March 2023
Event Venue	Lab No. 314
Organized by	Department of Artificial Intelligence and Data Science
Targeted Audience	Students
Resource Person	NA

Activity Contents:
Professional certifications can help individuals advance faster in their careers, especially in highly-specialized industries such as human resources, accounting or information technology. While not all certifications are created equal, they do provide assurance of professional competence in tandem with a professional degree or work experience.

Geo-tagged Photos:

Departmental Activity Coordinator: Prof. Poonam Nagale

HOD:_____

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17)	B -38	Rutul D Bhosale.	
18)	B - 51	Shewale sakshi	
19)	B - 65	Ut Utkarsha chavan	
20)	B - 61	Ayush Thakare	
21)	B - 03	Bhumika Kote	
22.	B - 36	Rittik Kumbhakar	
23)	B - 56	Sarvadnya S Sonawane	
24)	B - 75	Yash Thakur	
25)	B - 21	Atharva pajankar	
26	B - 67	Harsh vishwakarma	
27	B - 16	Atharva More	
28	B - 63	Shantanu Trigune	
29	B - 73	Shruti P. Wadkar	
30	B - 55	Prajakta Sonawane	
31.	B - 19	Aniket Nerkar	
32.	B - 32	Priyam Sarkhel	
33.	B - 22	Milind Patekar	
34	B - 68	Mehaw Waghmare	
35	B - 11	Aarya Manjrekar	
36	B - 03	Bhumika Kote	
37	B - 61	Ayush Thakare	
38	B - 65	Utkarsha Chavan	
39	B - 51	Sakshi shewale	
40.	B - 40	Krishna Sagar	

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Department of Artificial Intelligence and Data Science Engineering
Form No. IQAC/28

Date: 23/03/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: DSA Certification from diffrent learning platform

Sr. No.	Roll No.	Name of the Participant	Signature
1)	B-26	Bhagyashri B. Patil	
2]	B-14	Mhase Sakshi	
3)	B-10	Akash . R. Madhavan	
4]	B-30	Pranav Kadam	
5]	B-08	Lata Gawade	
6]	B-52	Pallavi shinde	
7)	B-13	Mayur Chandhazi	
8)	B-63	Shantanu Shinde	
8]	B-08	Lata Gawade	
10]	B-52	Pallavi shinde	
11)	B-02	Kshitij kolte	
12)	B-41	Avinash Salunke	
13)	B-66	Atharva Vedpathak	
14)	B-44	Sanket Kamanna	
15)	B-12	Shreyash S. Marothkar	
16	B-49	Rohan shelar	

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17	B-53	Shantanu Shinde	Shinde
18	B-13	Mayur Chaudhari	Mayur
19	B-16	Atharva More	More
20	B-63	Shantanu Trigune	
21)	B-73	Shruti P. Walunj	Shruti
22)	B-55	Prajakta Sonawane	Sonawane
23)	B-19	Aniket Nerkar	Aniket
24)	B-32	Priyam Sarkhel	
25)	B-03	Bhumika Kote	
26)	B-01	Ayush Thakare	
27)	B-65	Utkarsha Chavan	Utkarsha
28)	B-61	Sakshi Shewale	Saksha
29)	B-38	Rutul D. Bhosale	
30)	B-12	Shreyash S. Marotkar	
31	B-49	Rohan Shelar	
32	B-21	Atharva Pajankar	
33	B-23	Chinmay Pathak	Pathak
34	B-64	Utkarsh Kumar	
35	B-41	Avinash Salunke	
36	B-67	Harsh Vishwakarma	
37	~~B-10~~	~~[illegible]~~	
38	B-75	Yash Thakur	
39.	B-36	Rittik Kumbhekar	Rittik
40.	B-44	Sanket Kamanna	Sanket

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41.	B-23	Chinmay Pathak	
42)	B-50	Shete Devendra	
43)	B-05	Om Kumbhar	
44)	B-17	Pavan Nanacare	
45)	B-01	Bhagwat D. Koli	
46)	B-69	Nikhil Waghmare	
47)	B-47	Sarvesh Deale	
48)	B 39	Sachin Dongre	
~~49)~~	~~B-38~~	~~Rutuj D. Bhosale~~	
49)	B 31	Pratik Mahajan	
50)	B 45	Sanket Khore	
51)	B 71	Vaibhav Waghmare	
52)	B09	Prasad Lokhande	
53)	B56	Sarvadnya Sonawane	
54)	B-72	mayuri walke	
55)	B-29	Rutuja Pawar	
	B-25	Aruchi Patil	
	B-27	Rajaveer Patil	
	B-20	Aniket ovhal	
	B-43	Atharva Sangle	

Name and Sign of Coordinator: Prof. Poonam Nagale - Poonam

Departmental Event Coordinator: Sakshi Kowlagi

HoD: Prof.Bhagyashree Dhakulkar

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Date:02/ 05/2023

Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: **DSA open ended questions**

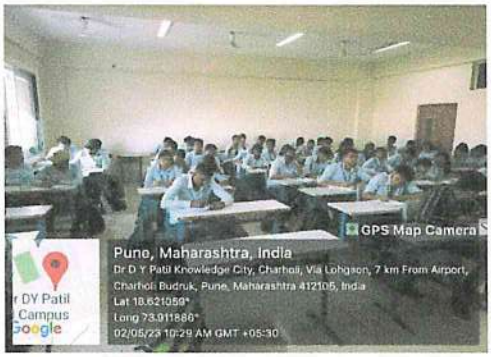
Date and Time	02 May 2023
Event Venue	Class Room No. 302
Organized by	Department of Artificial Intelligence and Data Science
Targeted Audience	Students
Resource Person	NA

Activity Contents:

Open-ended questions are designed to help clients reflect on their feelings and elaborate on their experiences. Such questions encourage people to share more details about their lives, relationships, opinions, and problems. Question is mentioned below:

Unit No.1	Q1. What are the applications of DSA? How Hashing is used to organized the data
Unit No.2	Q2. What is BT & How to check if given tree is BST?
Unit No.6	Q3. What is File organization? How Indexing helps to organize the files?

Geo-tagged Photos:



Departmental Activity Coordinator: Prof. Poonam Nagale

HOD:

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Date: 15 / 3 /2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: Case Study

Sr. No.	Roll No.	Name of the Participant	Signature
1	B-59	Rahul Bhau Talwar	
2	B-05	Om Kumbhar	
3	B-17	Pawan Nanaware	
4	B-68	Manav Waghmare	
5	B-22	Milind Patekar	
6	B-11	Aarya Manjrekar	
7	B-26	Bhagyashri B. Patil	
8	B-14	Those Sakshi	
9	B-10	Akash . R. Madhavan	
10	B-30	Pranav kadam	
11	B-52	Pallavi shinde	
12	B-08	Lata Gawade	
13	B-41	Avinash Salunke	
14	B-02	Kshitij kolte	
15	B-66	Atharva Vedpathak	
16	B-47	Sarvesh Desale	

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Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: **Case Study Activity**

Date and Time	15 March 2023
Event Venue	Class Room No. 302
Organized by	Department of Artificial Intelligence and Data Science
Targeted Audience	Students
Resource Person	NA

Activity Contents:

A case study is an appropriate research design it helps students want to gain concrete, contextual, in-depth knowledge about a specific real-world subject. It allows to explore the key characteristics, meanings, and implications of the case. Case study activity was conducted on unit no. 3, 5 and 6.

Geo-tagged Photos:

Departmental Activity Coordinator: Prof. Poonam Nagale

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	B40	Krishna Sagar	
42	B31	Pratik Kalaiyan	
43)	B-50	Shete Devendra	
44)	B-32	Priyam Sarkhel	
45)	B-56	Sarvadnya S. Sonawane	
46)	B-01	Bhagwat D. Koli	
47)	B-69	Nikhil Waghmare	
48)	B-47	Sarvesh Desale	
49)	B-46	Aditya Sarode	
50)	B 39	Sachin Dongre	
~~51)~~	~~B-38~~	~~Rutuj D Bhosale~~	
51)	B-45	Sanket Khore	
52)	B-71	Vaibhav Waghmare	
53)	B-09.	Prasad Lokhande	
54)	B-56	Sarvadnya Sonawane	
55)	B-72	mayuri walke	
56)	B-29	Rutuja Pawar	
	B-25	Arushi Patil	
	B-27	Rajaveer Patil	
	B-20	Aniket Ovhal	
	B-43	Atharva Sangle	

Name and Sign of Coordinator: Prof. Poonam Nagale

Departmental Event Coordinator:

HoD: Prof.Bhagyashree Dhakulkar

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41)	B-75	Yash thakur	
42)	B-50	Devendra shete	
43)	B 39	Sachin Pagar	
~~44~~	~~B 38~~	~~Rutuj D. Bhosale~~	
44)	B 31	Pratik Mahajan	
45)	B 45	Sanket Khore	
46)	B-11	Vaibhavi Waghmare	
47)	B-09	Prasad Lokhande.	
48)	B-56	Sanadnya S. Sonawane	
49)	B-72	mayuri wolke	
50)	B-29	Rutuja Pawar	
51	B25	Arushi Patil	
52	B-27	Rajaveer Patil	
53	B-20	Aniket ovhal	
54	B-43	Atharva Sangle.	
55	B-21	Atharva Pajankar	

Name and Sign of Coordinator: Prof. Poonam Nagale Poonam

Departmental Event Coordinator: Kaustubh Kaushal.

HoD: Prof.Bhagyashree Dhakulkar

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Department of Artificial Intelligence and Data Science Engineering
Form No. IQAC/28

Date: 02 / 05 /2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: DSA Open ended questions

Sr. No.	Roll No.	Name of the Participant	Signature
1)	B-59	Rahul Bheru Talvar	
2)	B-05	Om Kumbar	
3)	B-17	Pawan Nanavare	
4)	B-14	Those Sakshi	
5)	B-26	Bhagyashri B. Patil	
6)	B-19	Aniket Nerkar	
7)	B-32	Priyam Sashnel	
8)	B-68	Manav Waghmare	
9)	B-22	Milind Patekar	
10)	B-11	Aarya Manjrekar	
11)	B-03	Bhumika Kote	
12)	B-61	AYUSH THAKARE	
13)	B-65	Utkarsha chavan	
14)	B-51	sakshi shewale	
15)	B-38	Rutul D Bhosale	

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16)	B-12	Shreyash S. Morotkar	
17)	B-49	Rohan Shelar	
18	B-21	Atharva Pajankar	
19	B-67	Harsh Vishwakarma	
20	B-75	Yash Thakur	
21	B-50	Shete Devendra	
22	B-56	Sarvadnya S. Sonawane	
23.	B-36	Ritik Kumbhakar	
24	B-23	Chinmay pathak	
25	B-64	Utkarsh kumar	
26	B-02	KSHITIJ KOLTE	
27	B-13	Mayur Chaudhari	
28	B-53	Shantanu Shinde	
29	B-63	Shantanu Trigun	
30	B-16	Atharva More	
31)	B-73	Shruti walunj	
32)	B-55	Prajakta Sonawane	
33)	B-32	Priyam Sarkhel	
34)	B-19	Aniket Nerkar	
	~~B-59~~	~~Rutuja Pathrikar~~	
40)	B-40	Krishna Sagar	
41)	B-44	Sanket Kamanna	
42)	B 31	Rohit Mahajan	

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43	B-30	Pranav Kadam	
44	B-10	Akash . R. Mudhavan	
45.	B-66	Atharva Vedpathak.	
46.	B-52	Pallavi Shinde	
47	B-08	Lata Gawade	
48	B-53	Shantanu Shinde	
49	B-41	Avinash Salunke	
50	B-01	Bhagwat D. Koli	
51)	B-69	Nikhil Waghmare	
52)	B-47	Sarvesh Desale	
53)	B 39	Sachin Dongre	
~~54)~~	~~B-38~~	~~Rutuja D. Bhosale~~	
54)	B-45	Sanket Khore	
55)	B-71	Vaibhav Waghmare	
56)	B-09	Prasad Lokhande	
57)	B-72	mayuri walke	
58)	B-29	Rutuja Pawar	
	B-27	Rajaveer Patil	
	B-25	Arushi Patil	
	B-20	Aniket Ovhal	
	B-43	Atharva Sanyal	

Name and Sign of Coordinator: Prof. Poonam Nagale

Departmental Event Coordinator:

HoD: Prof.Bhagyashree Dhakulkar

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Date:20/ 04/2023

Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: **Develop prototype/Model related to DSA**

Date and Time	20 April 2023
Event Venue	Lab No. 314
Organized by	Department of Artificial Intelligence and Data Science
Targeted Audience	Students
Resource Person	NA

Activity Contents:

Creating a prototype makes idea tangible and provides a visual representation that gains more attention as it is experienced by the market. In this case, instead of selling your idea, it is the idea that does all the work. It is an easy way to get real feedback. Successful ideas are built on reliable statistics and market research.

Geo-tagged Photos:

Departmental Activity Coordinator: Prof. Poonam Nagale

HOD:

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Date: 20/4/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: Develop Prototype / model related to DSA

Sr. No.	Roll No.	Name of the Participant	Signature
1)	B59	Rahul Bhau Talvar	Talvar
2)	B-05	Om kumbhar	Om C.
3)	B-17	Pawan Nanaware	
4)	B-19	Aniket Nerkar	
5)	B-32	Priyam Sarkhel	
6)	B-68	Manav Waghmare	
7)	B-22	Milind Patekar	
8)	B-11	Aarya Manjrekar	Aarya
9)	B-73	Shruti P. Walunj	
10)	B-55	Prajakta Sonawane	PSonawane
11)	B-63	Shantanu Trigune	
12)	B-16	Atharva More	
13)	B-13	Mayur Chaudhari	
14)	B-53	Shantanu Shinde	
15)	B-66	Atharva Vedpathak	
16)	B-47	Sarvesh Desale	

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17]	B-02	Kshitij kolte	
18)	B-41	Avinash salunke	
19)	B-52	Pallavi Shinde	
20)	B-08	Lata Gawade	
21)	B-10	Akash . R. Madhavan	
22)	B-30	Pranav Kadam	
23)	B-26	Bhagyashri B. Patil	
24]	B-14	Those Sakshi	
25)	B-49	Rohan Shelar	
26)	B-40	Krishna Sagar	
27)	B-61	Ayush Thakare	
28)	B-03	Bhumika kote	
29)	B-65	Utkarsha Chavan	
30)	B-51	Et shewale sukshi	
31)	B-12	Shreyash S. Morolkar	
32)	B-38	Rutul D Bhosale	
33.	B-36	Rittik Kumbhakar	
34	B-44	Sanket Kamanna	
35	B-50	Shete Devendra	
36)	B-01	Bhagwat D. Koli	
37)	B-69	Nikhil S. Waghmare	
38)	B-46	Aditya S. Sarode	
39)	B-47	Sarvesh Desale	
40)	B-67	Harsh Vishwakarma	

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Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: **DSA buzz session**

B

Date and Time	17 May 2023
Event Venue	Class Room No. 301
Organized by	Department of Artificial Intelligence and Data Science
Targeted Audience	Students
Resource Person	NA

Activity Contents:

There may be nothing more exciting than watching students engage in a class discussion. The student was talk about their assigned question while the rest of the class listen them talk. In this activity students are divided in two teams (Girls and boys) and questions on DSA was asked to both team members by subject teacher, and those who knew the answer have to give buzzer, on first come first serve basis activity conducted and accordingly score is given to finalize the winner team of event. This activity is conducted on unit 4, 5 and 6.

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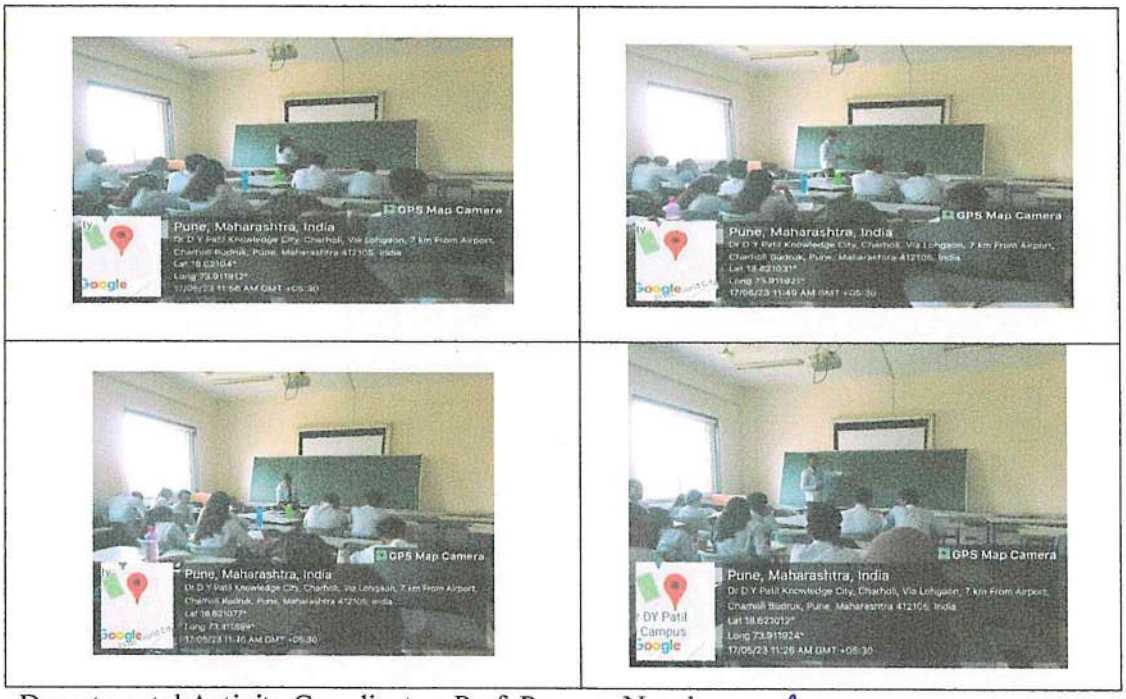
Geo-tagged Photos:



Departmental Activity Coordinator: Prof. Poonam Nagale

HOD:

Poonam

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Department of Artificial Intelligence and Data Science Engineering
Form No. IQAC/28

Date: 17/05/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: DSA Buzz session

Sr. No.	Roll No.	Name of the Participant	Signature
1	B-11	Aanya Manjrekar	Aanya
2	B-56	Sarvadnya S. Sonawane	Sarvadnya
3.	B-36	Rittik Kumbhakar	Rittik
4.	B-75	Yash Thakur	Yash T.
5	B-50	Shete Devendra	SDHD.
6	B-67	Harsh Vishwakarma	
7	B-12	Shreyash S. Marotkar.	
8.	B-49	Rohan Shelar	
9	B-02	Kolte Kshitij	
10	B-23	Chinmay Pathak	Pathak
11	B-21	Atharva Pajankar.	
12	B-64	Utkarsh Kumar.	
13	B-44	Sanket Kamanna	Sanket
14	B-40	Krishna Sagar	
15.	B-22	Milind Patekar	
16.	B-68	Manav Waghmare	

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	B-31	Pratik Halgyan	
	B-59	Rahul Talwar	
	B-38	Rutul D Bhosale	
	B-30	Pranav Kadam	
	B-10	Akash. R. Madhavan	
	B-66	Atharva Vedpathak	
	B-26	Bhagyashri Patil	
	B-14	Sakshi Mhaye	
	B-52	Pallavi Shinde	
	B-08	Lata Gawade	
	B-53	Shantanu Shinde	
	B-61	Ayush Thakare	
	B-03	Bhumika Kote	
	B-65	Utkassha Chavan	
	B-51	Shewale Sakshi	
	B-55	Prajakta Sonawane	
	B-73	Shruti Walunj	
	B-16	Atharva More	
	B-63	Shantanu Trigune	
	B-41	Avinash Salunke	
	B-05	Om Kumbhar	
	B-17	Pawan Nanaware	
	B-01	Bhagwat D. Koli	
	B-69	Nikhil Waghmare	

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	B-47	Sarvesh Desle	
	B-46	Aditya Sarode	
	B-39	Sachin Dongre	
	~~B-38~~	~~Rutuj Bhosale~~	
	B-45	Sanket Khore	
	B-71	Vaibhav Waghmare	
	B-09	Prasad Lokhande	
	B-56	Sarvadnya Sonawane	
	B-72	mayuri walke	
	B-29	Rutuja Pawar	
	B-27	Rajaveer Patil	
	B-25	Arushi patil	
	B-20	Aniket ovhal	
	B-43	Atharva sangle.	

Name and Sign of Coordinator: Prof. Poonam Nagale

Departmental Event Coordinator:

HoD: Prof.Bhagyashree Dhakulkar

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Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I Activity: **Showing the video on Extended Hashing**

Date and Time	15 March 2023
Event Venue	Class Room No. 302
Organized by	Department of Artificial Intelligence and Data Science
Targeted Audience	Students
Resource Person	NA

Activity Contents:
The video contains, extendible Hashing, main features of Extendible Hashing, basic Structure of Extendible Hashing, basic Working of Extendible Hashing, handling of overflow condition , Key observation, advantages and limitations of extendible hashing.

Geo-tagged Photos:

Departmental Activity Coordinator: Prof. Poonam Nagale Poonam

HOD: _____

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Department of Artificial Intelligence and Data Science Engineering
Form No. IQAC/28

Date: 15 / 03/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: Video lecture on Extended Hashing

Sr. No.	Roll No.	Name of the Participant	Signature
1.	B-19	Aniket Nerkar	
2.	B-32	Priyam Sarkhel	
3.	B-73	Shruti P. Walunj	
4.	B-55	Prajakta Sonawane	
5.	B-63	Shantanu Trigune	
6.	B-16	Atharva More	
7.	B-13	Mayur Chavdhari	
8)	B-53	Shantanu Shinde	
9]	B-08	Lata Gawade	
10]	B-52	pallavi shinde	
11)	B-10	Akash R. Madhavan	
12	B-30	Pranav Kadam	
13)	B-66	Atharva Vedpathak	
14)	B-26	Bhagyashri B. Patil	
15)	B-14	Sakshi Mhase	
16)	B-05	Om Kumbhar	

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17)	B-17	Pawan Nanaware	
18)	B-59	Rahul Talwar	
19)	B 31	Pravik Mangyan	
20	B-50	Shete Devendra	
21	B-68	Manav Waghmare	
22	B-22	Milind Patekar	
23	B-11	Aarya Manjrikar	
24	B-67	Harsh vishwakarma	
25	B-21	Atharva pajankar	
26	B-75	Yash Thakur	
27	B-23	Chinmay Pathak	
28	B-64	Utkarsh Kumar	
29	B-56	Sarvadnya S. Sonawane	
30	B-02	Kolte Kshitij	
31	B-61	Ayush Thakare	
32	B-03	Bhumika Kole	
33	B-38	Rahul Bhosale	
34	B-51	Shewale Sakshi	
35	B-65	Utkarsha Chavan	
36.	B-36	Rittik Kumbhakar	
37.	B-41	Avinash Salunke	
38	B-01	Bhagwat D. Koli	
39)	B-69	Nikhil Waghmare	
40)	B-46	Aditya S. Sarode	

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41)	B 39	Dongre Sachin	
~~42)~~	~~B-38~~	~~Rutuja Bhosale~~	
42)	B-45	Sanket Khore	
43)	B-71	Vaibhav Waghmare	
44)	B-09	Prasad Lokhande	
45)	B-72	mayuri walke	
46)	B-29	Rutuja Pawar	
47	B-25	Arushi Patil	
	B-27	Rajaveer Patil	
	B-20	Aniket ovhal	
	B-43	Atharva sanjh.	
	B-49	Rohan Shelar	

Name and Sign of Coordinator: Prof. Poonam Nagale Poonam

Departmental Event Coordinator: Sakshi Kaushal.

HoD: Prof.Bhagyashree Dhakulkar

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Date:17/ 05/2023

Activity Report

Academic Year: 2022-23 **Semester-II**

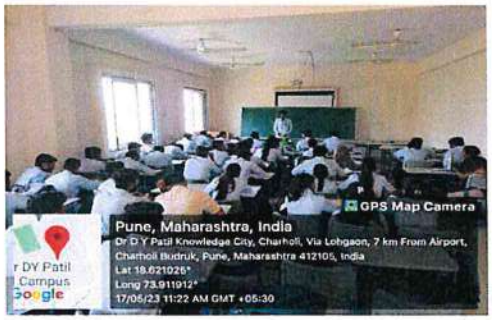
Best Practice I Activity: **DSA Bowl Activity**

Date and Time	17 May 2023
Event Venue	Class Room No. 301
Organized by	Department of Artificial Intelligence and Data Science
Targeted Audience	Students
Resource Person	NA

Activity Contents:

There may be nothing more exciting than watching students engage in a class discussion. The student was talk about their randomly chosen question while the rest of the class listen them talk. The question was assigned on unit no. 3, 4 and 5. In this, a student have to picked chit from the given quiz bowl randomly and answer the question.

Geo-tagged Photos:



Departmental Activity Coordinator: Prof. Poonam Nagale Poonam

HOD: P. Jagdale

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Date: 16/05/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: DSA Bowl Activity

Sr. No.	Roll No.	Name of the Participant	Signature
1	B-11	Aarya Manjrekar	
2	B-03	Bhumika Somnath Kote	
3	B-61	Ayush Thakare.	
4	B-65	Utkarsha chavan	
5	B-61	sakshi shewale	
6	B-38	Rutul D Bhosale	
7	B-12	Shreyash S. Marotkar.	
8.	B-49	Rohan Shelar	
9.	B-50	Shete Devendra	
10	B-67	Harsh vishwakarma	
11	B-23	Chinmay Pathak	
12	B-21	Atharva Pajankar	
13	B-64	Utkarsh kumar.	
14)	B-02	Kshitij kolte	
15.	B-36	Ritik Kumbhakar	
16)	B-40	Krishna Sagar	

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17	B-44	Sanket Komanna	Sanket
18	B-31	Pratik Nalayam	Nalayam
19.	B-22	Milind Patekar	mp
20.	B-68	Manav Waghmare	MW
21.	B-19	Aniket Nerkar	
22.	B-32	Priyam Sarkhel	PS
23	B-30	Pranav Kadam	
24	B-10	Akash . R. Madhavan	
25.	B-66	Atharva Vedpathak	Avedpathak
26	B-26	Bhagyashri Patil	Bpatil
27	B-14	Sakshi Mhaje	SMhaje
28	B-52	Pallavi Shinde	Pallavi
29	B-08	Lata Gawade	
30	B-53	Shantanu Shinde	Shinde
31	B-50	Rahul Talvar	Talvar
32	B-63	Shantanu Trigune	
33	B-73	Shruti Walunj	
34	B-55	Prajakta Sonawane	Sonawane
35	B-16	Atharva Mone	
36	B-41	Avinash Salunke	
37	B-05	Om Kumbhar	
38	B-17	Pawan Nanaware	
39	B-01	Bhagwat D. Koli	Koli
40	B-69	Nikhil Waghmare	

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	B-47	Sarvesh Desale	
	B-46	Aditya Sarode	
	B 39	Sachin Dongre	
	B45	Sanket Khore	
	B-46-	Vaibhav Waghmare	
	B-56	Sarvadnya Sonawane	
	B-72	mayuri walke	
	B-29	Rutuja Pawar	
	B-27	Rajaveer. Patil	
	B-25	Arushi Patil	
	B-20	Aniket ovhal	
	B-43	Atharva Sangle	

Name and Sign of Coordinator: Prof. Poonam Nagale. Poonam

Departmental Event Coordinator: Gauri Kaudey

HoD: Prof.Bhagyashree Dhakulkar

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Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice II Activity: **Peer Learning**

Date and Time	17 May 2023
Event Venue	Class Room No. 301
Organized by	Department of Artificial Intelligence and Data Science
Targeted Audience	Students
Resource Person	NA

Activity Contents:

The positive effects of Peer to Peer (Student to Students) learning in software engineering go beyond the immediate gains in achievement, motivation, self-esteem and acceptance of difference. Students learning in cooperative goal structure also develop skills in communication, leadership and conflict resolution that are basic to productive, working teams. In this, topics of unit 3 and 6 are distributed among students. And each topic was explained by a student to his classmates with examples.

Geo-tagged Photos:

Departmental Activity Coordinator: Prof. Poonam Nagale

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Department of Artificial Intelligence and Data Science Engineering
Form No. IQAC/28

Date: 17 /05/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: Peer learning

Sr. No.	Roll No.	Name of the Participant	Signature
1	B-11	Aarya Manjrekar	Aarya
2	B-22	Milind Patekar	
3	B-59	Rutul Talvar	
4.	B-19	Aniket Nevkar	
5.	B-32	Priyam Sarkhel	
6.	B-55	Prajakta Sonawane	
7.	B-73	Shruti waluni	
8	B-63	Shantanu Trigune	
9	B-16	Atharva More	
10)	B-53	Shantanu Shinde	
11)	B-13	Mayur Chaudhari	
12	B-12	Shreyash S. Morkar.	
13)	B-38	Rutuj D Bhosale	
14.	B-49	Rohan Shelar	
15)	B-65	chavan Utkarsha	
16)	B-51	Shewale Sakshi	

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17)	B-03	Bhumika Kote	Bhumika
18)	B-40	Krishna Sagar	Krishna
19)	B-61	Ayush Thakare	Ayush
20.	B-36	Rittik Kumbhakar	Rittik
21)	[illegible]	[illegible]	
21)	B-10	Akash . R. Madhavan	Akash
22)	B-66	Atharva Vedpathak	Atharva
23)	B-44	Sanket Kamanna	Sanket
24)	B-52	Pallavi Shinde	Pallavi
25)	B-08	Lata Gawade	Lata
26	B-30	Pranav Kadam	Pranav
27)	B-23	Chinmay Pathak	Chinmay
28)	B-14	Mayur Sakshi	Mayur
29)	B-05	Om Kumbhar	Om
30)	B-17	Pawan Nanaware	Pawan
31)	B02	Kshitij Kolte	Kshitij
32)	B-01	Bhagwat D. Koli	Bhagwat
33)	B-69	Nikhil Waghmare	Nikhil
34)	B-46	Aditya Sarode	Aditya
35)	B-47	Sarvesh Desale	Sarvesh
36)	B-67	Harsh Vishwakarma	Harsh
37)	B-70	Yash Thakur	Yash
38)	B-50	Devendra Shete	D.S
39)	B-39	Sachin Dongre	Sachin

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40)	B-31	Pratik Mahajan	
41)	B-45	Sanket Khore	
42)	B-71	Vaibhav Waghmare	
43)	B-56	Sarvadnya Sonawane	
44)	B-72	mayuri walke	
45)	B-26	Bhagyashri B. Patil	
46)	B-43	Atharva Yogesh Sangle	
47)	B-29	Rutuja Pawar	
48	B-27	Rajaveer patil	
49	B-25	Arushi Patil	
50	B-20	Aniket ovhal	
51	B-43	Atharva sangle	
52	B-21	Atharva Pajankar	

Name and Sign of Coordinator: Prof. Poonam Nagale Poonam.

Departmental Event Coordinator: Sarsi Kaushal.

HoD: Prof.Bhagyashree Dhakulkar

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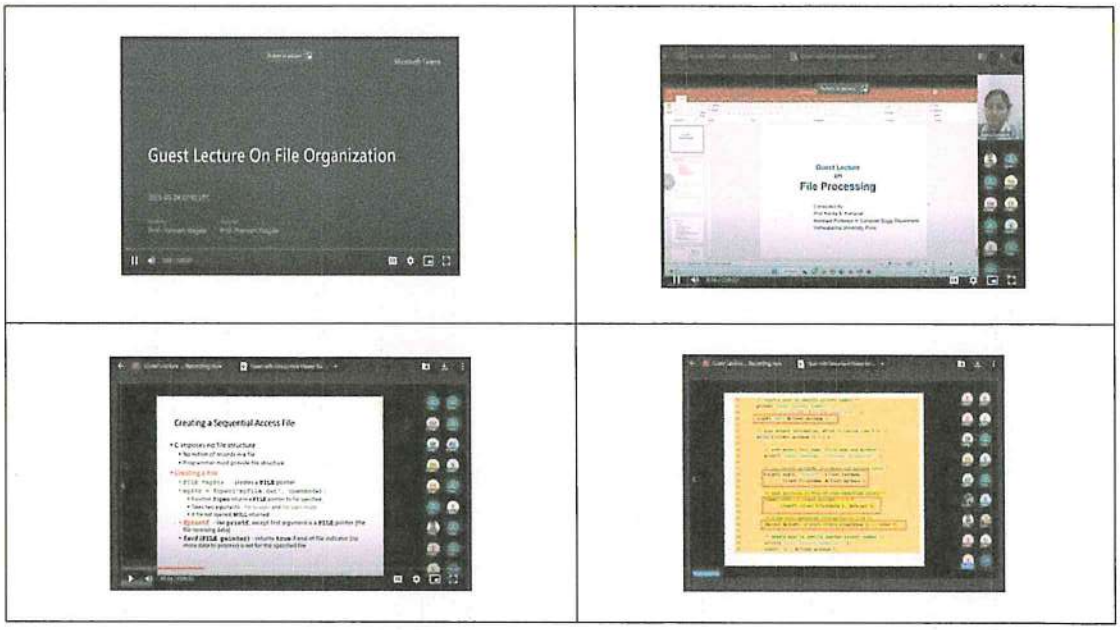
Geo-tagged Photos:



Departmental Activity Coordinator: Prof. Poonam Nagale

HOD:

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1. Summary

Meeting title	Guest Lecture On File Organization
Attended participants	185
Unidentified participants	1
Start time	5/24/23, 12:50:37 F
End time	5/24/23, 3:08:45 PI
Meeting duration	2h 18m 7s
Average attendance time	31m 49s

2. Participants

Name	First Join	Last Leav	In-Meeting D	Email	Participant ID (UPN)	Role
Prof. Poonam Nagale	5/24/23, 12	5/24/23, 2	1h 21m 13s	poonamn@dypisp.onmicrosoft.com	poonamn@dypisp.onmicr	Organizer
1319-Shreya Sharma	5/24/23, 12	5/24/23, 1	1h 2m 37s	shreyasharma@dypisp.onmicrosoft.co	shreyasharma@dypisp.or	Presenter
1141-Shubham Ghume	5/24/23, 12	5/24/23, 2	1h 15m 26s	shubhamghume@dypisp.onmicrosoft.(	shubhamghume@dypisp.	Presenter
1308-Pratima Redekar	5/24/23, 12	5/24/23, 1	42m 5s	pratimaredekar@dypisp.onmicrosoft.c	pratimaredekar@dypisp.c	Presenter
1354-SHRIYA WATKAR	5/24/23, 12	5/24/23, 2	1h 15m 32s	shriyawatkar@dypisp.onmicrosoft.com	shriyawatkar@dypisp.onr	Presenter
Chetan khulage	5/24/23, 12	5/24/23, 2	1h 10m 53s			Presenter
Sonali Mandlik	5/24/23, 1:0	5/24/23, 2	1h 19m 45s			Presenter
Swarupa	5/24/23, 1:0	5/24/23, 2	1h 13s			Presenter
kavita.kumavat	5/24/23, 1:0	5/24/23, 2	1h 12m 25s	kavita.kumavat@vupune.ac.in	kavita.kumavat_vupune.a	Presenter
1352-LAKSHITA MITTAL	5/24/23, 1:0	5/24/23, 3	2h 1m 33s	lakshitamittal@dypisp.onmicrosoft.com	lakshitamittal@dypisp.onr	Presenter
1209-Siddhesh Kamire	5/24/23, 1:0	5/24/23, 2	1h 12m 23s	siddheshkamire@dypisp.onmicrosoft.c	siddheshkamire@dypisp.(	Presenter
Upasna Rawal	5/24/23, 1:0	5/24/23, 1	44m 58s			Presenter
EN21154533 - Bodakhe Ganesh	5/24/23, 1:0	5/24/23, 2	1h 5m 48s	ganeshbodakhe.EN21154533@dypisp	ganeshbodakhe.EN21154	Presenter
EN21157435 - Barote Sujeet Ja	5/24/23, 1:0	5/24/23, 1	4s	sujeetbarote.EN21157435@dypisp.onr	sujeetbarote.EN2115743	Presenter
EN21102938 - Jagtap Shivraj Pr	5/24/23, 1:0	5/24/23, 2	31m 31s	shivrajagtap.EN21102938@dypisp.onr	shivrajagtap.EN2110293	Presenter
EN21100833 - Ghorpade Prithvi	5/24/23, 1:0	5/24/23, 3	1h 40m 35s	Prithvirajghorpade.EN21100833@dypi	Prithvirajghorpade.EN211	Presenter
Prerana Kawade	5/24/23, 1:0	5/24/23, 1	40m 35s			Presenter
Kartiki	5/24/23, 1:0	5/24/23, 1	25m 9s			Presenter
Shweta Amale	5/24/23, 1:0	5/24/23, 1	18m 16s			Presenter

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Anushka Pansare	5/24/23, 1:0	5/24/23, 2	57m 48s		Presenter
Aditya Jadhav	5/24/23, 1:0	5/24/23, 1	21m 23s		Presenter
1214-Sakshi Kolte	5/24/23, 1:0	5/24/23, 2	1h 11m 21s	sakshikolte@dypisp.onmicrosoft.com	sakshikolte@dypisp.onmi Presenter
EN21129334 - Dabade Om Raje	5/24/23, 1:0	5/24/23, 2	1h 10m 38s	omdabade.EN21129334@dypisp.onm	omdabade.EN21129334@ Presenter
EN21155985 - Ghatkar Krushna	5/24/23, 1:0	5/24/23, 2	55m 38s	krushnaghatkar.EN21155985@dypisp.	krushnaghatkar.EN21155 Presenter
EN21114471 - Bhandwalkar Abh	5/24/23, 1:0	5/24/23, 2	1h 12m 9s	abhishekbhandwalkar.EN21114471@c	abhishekbhandwalkar.EN Presenter
EN21231237 - gopane pranali la	5/24/23, 1:0	5/24/23, 2	55m 24s	pranaligopane.EN21231237@dypisp.c	pranaligopane.EN212312 Presenter
EN21124763 - Khule Gururaj Uc	5/24/23, 1:0	5/24/23, 2	54m 31s	gururajkhule.EN21124763@dypisp.on	gururajkhule.EN2112476 Presenter
Sargar Popat	5/24/23, 1:0	5/24/23, 2	57m 16s		Presenter
A58	5/24/23, 1:0	5/24/23, 1	52m 35s		Presenter
EN21101592 - Nanaware Pawar	5/24/23, 1:0	5/24/23, 2	1h 9m 35s	pawannanaware.EN21101592@dypisp	pawannanaware.EN2110 Presenter
EN21126132 - Athani Sandeep I	5/24/23, 1:0	5/24/23, 2	1h 9m 27s	sandeepathani.EN21126132@dypisp.c	sandeepathani.EN211261 Presenter
sursj bende c-69	5/24/23, 1:0	5/24/23, 1	4m 7s		Presenter
Aditya Kate	5/24/23, 1:0	5/24/23, 2	53m 56s		Presenter
Jay Dake	5/24/23, 1:0	5/24/23, 1	9m 48s		Presenter
1227-Sohan Marsale	5/24/23, 1:0	5/24/23, 2	1h 26m 53s	sohanmarsale@dypisp.onmicrosoft.co	sohanmarsale@dypisp.or Presenter
1225-Sameer Mali	5/24/23, 1:0	5/24/23, 2	1h 21m 3s	sameermali@dypisp.onmicrosoft.com	sameermali@dypisp.onm Presenter
Harshal Ghugal	5/24/23, 1:0	5/24/23, 1	19m 55s		Presenter
1310-VISHAL SAHNI	5/24/23, 1:0	5/24/23, 2	1h 11m 24s	vishalsahni@dypisp.onmicrosoft.com	vishalsahni@dypisp.onmi Presenter
1156-Akash Joshi	5/24/23, 1:0	5/24/23, 2	1h 1m 22s	akashjoshi@dypisp.onmicrosoft.com	akashjoshi@dypisp.onmic Presenter
Shreyas Gimhavanekar	5/24/23, 1:0	5/24/23, 1	11m 48s		Presenter
Sharayu Benkar	5/24/23, 1:0	5/24/23, 2	1h 7m 21s		Presenter
Saraswati Chalwadi	5/24/23, 1:0	5/24/23, 1	5m 4s		Presenter
1339-Piyush Tiwari	5/24/23, 1:0	5/24/23, 1	45m 38s	piyushtiwari@dypisp.onmicrosoft.com	piyushtiwari@dypisp.onm Presenter
1154-Kaustubh Jangam	5/24/23, 1:0	5/24/23, 2	1h 8m 29s	kaustubhjangam@dypisp.onmicrosoft.	kaustubhjangam@dypisp Presenter
1220-Varad Landge	5/24/23, 1:0	5/24/23, 2	1h 5m 53s	varadlandge@dypisp.onmicrosoft.com	varadlandge@dypisp.onn Presenter
1250-Tanishka Patil	5/24/23, 1:0	5/24/23, 2	1h 12m 48s	tanishkapatil@dypisp.onmicrosoft.com	tanishkapatil@dypisp.onn Presenter
Anubhav Agrawal	5/24/23, 1:0	5/24/23, 2	1h 8m 35s		Presenter
1151-Tapaswi Jadhav	5/24/23, 1:0	5/24/23, 2	1h 8m 59s	tapaswijadhav@dypisp.onmicrosoft.co	tapaswijadhav@dypisp.or Presenter
Rohit Mahant	5/24/23, 1:0	5/24/23, 1	30m 39s		Presenter

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Engineering, Lo Pune

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Atharva Chile	5/24/23, 1:0	5/24/23, 2	1h 8m 17s		Presenter
Nikita Bandiwar	5/24/23, 1:0	5/24/23, 2	1h 9m 28s		Presenter
EN21109747 - Om Khandve	5/24/23, 1:0	5/24/23, 1	27m 38s	OmkhandveEN21109747@dypisp.onm	OmkhandveEN21109747 Presenter
1123-Shweta Chavan	5/24/23, 1:0	5/24/23, 2	1h 8m 4s	shwetachavan@dypisp.onmicrosoft.co	shwetachavan@dypisp.o Presenter
EN21155538 - Geetansh Chopra	5/24/23, 1:0	5/24/23, 1	22m 13s	GeetanshchopraEN21155538@dypisp	GeetanshchopraEN2115 Presenter
Ashwini A 33	5/24/23, 1:0	5/24/23, 2	1h 6m 17s		Presenter
Tanishka Ghate	5/24/23, 1:0	5/24/23, 2	1h 5m 8s		Presenter
1126-Pratik Chowdhari	5/24/23, 1:0	5/24/23, 2	1h 6m 52s	pratikchowdhari@dypisp.onmicrosoft.c	pratikchowdhari@dypisp.(Presenter
1150-Ashish Ingle	5/24/23, 1:0	5/24/23, 1	41m 2s	ashishingale@dypisp.onmicrosoft.com	ashishingale@dypisp.onn Presenter
EN21104425 - Khichade Nagesh	5/24/23, 1:0	5/24/23, 1	37m 16s	nageshkhichade.EN21104425@dypisp	nageshkhichade.EN2110 Presenter
1245-Sayali Patil	5/24/23, 1:1	5/24/23, 2	1h 8m 54s	sayalipatil1245@dypisp.onmicrosoft.c	sayalipatil1245@dypisp.o Presenter
1118-Anjali Borate	5/24/23, 1:1	5/24/23, 2	1h 3m 41s	anjaliborate@dypisp.onmicrosoft.com	anjaliborate@dypisp.onm Presenter
gouri	5/24/23, 1:1	5/24/23, 1	11m 52s		Presenter
Om K	5/24/23, 1:1	5/24/23, 1	15s		Presenter
sursj bende c-69	5/24/23, 1:1	5/24/23, 2	1h 6m 13s		Presenter
EN21234535 - waghmare mana	5/24/23, 1:1	5/24/23, 1	1m 58s	manavwaghmare.EN21234535@dypis	manavwaghmare.EN212 Presenter
1149-Divya Ingale	5/24/23, 1:1	5/24/23, 2	1h 2m 9s	divyaingale@dypisp.onmicrosoft.com	divyaingale@dypisp.onmi Presenter
EN21152303 - Salunke Avinash	5/24/23, 1:1	5/24/23, 1	47s	avinashsalunke.EN21152303@dypisp.	avinashsalunke.EN21152 Presenter
EN21156321 - Attar Harshan Fir	5/24/23, 1:1	5/24/23, 2	16m 39s	harshanattar.EN21156321@dypisp.on	harshanattar.EN2115632 Presenter
Snehal Dahake	5/24/23, 1:1	5/24/23, 1	19m 26s		Presenter
suman jana	5/24/23, 1:1	5/24/23, 2	58m 43s		Presenter
EN21108515 - Adagale Yash An	5/24/23, 1:1	5/24/23, 2	17m 31s	yashadagale.EN21108515@dypisp.on	yashadagale.EN2110851 Presenter
1234-Rushikesh Naik	5/24/23, 1:1	5/24/23, 2	48m 41s	rushikeshnaik@dypisp.onmicrosoft.co	rushikeshnaik@dypisp.on Presenter
Abhishek Hadape	5/24/23, 1:1	5/24/23, 2	1h 11m 22s		Presenter
Ram Garje	5/24/23, 1:1	5/24/23, 2	59m 52s		Presenter
Suraj	5/24/23, 1:1	5/24/23, 1	38m 47s		Presenter
EN21145366 - Ambre Anushka S	5/24/23, 1:1	5/24/23, 1	43s	anushkaambre.EN21145366@dypisp.(	anushkaambre.EN21145 Presenter
Ram	5/24/23, 1:1	5/24/23, 1	2m 31s		Presenter
Vishwatej Kashid	5/24/23, 1:1	5/24/23, 1	13m 22s		Presenter
AADI EKHANDE	5/24/23, 1:2	5/24/23, 1	6m 2s		Presenter

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Hemangi Patil	5/24/23, 1:2	5/24/23, 1	25s		Presenter
1232-Khushi Morwani	5/24/23, 1:2	5/24/23, 2	45m 19s	khushimorwani@dypisp.onmicrosoft.c	khushimorwani@dypisp.c Presenter
1215-Aditya Konkewad	5/24/23, 1:2	5/24/23, 2	1h 48s	adityakonkewad@dypisp.onmicrosoft.(	adityakonkewad@dypisp. Presenter
SE-C Aisha	5/24/23, 1:2	5/24/23, 2	52m 11s		Presenter
EN21106958 - Kamanna Sanket	5/24/23, 1:2	5/24/23, 2	32m 38s	sanketkamanna.EN21106958@dypisp	sanketkamanna.EN2110(Presenter
EN21172261 - patil bhagyashri k	5/24/23, 1:2	5/24/23, 2	51m 59s	bhagyashripatil.EN21172261@dypisp.	bhagyashripatil.EN21172: Presenter
Sankalp B-42	5/24/23, 1:2	5/24/23, 1	4m 59s		Presenter
EN21161475 - vedpathak atharv	5/24/23, 1:2	5/24/23, 3	1h 41m 13s	atharvavedpathak.EN21161475@dypi	atharvavedpathak.EN211(Presenter
Aarya Manjrekar	5/24/23, 1:2	5/24/23, 1	5m 41s		Presenter
EN21151191 - Devyani Jayant S	5/24/23, 1:2	5/24/23, 2	45m 54s	devyanishingnapurkar.EN21151191@(	devyanishingnapurkar.EN Presenter
Nerkar Aniket	5/24/23, 1:2	5/24/23, 2	49m 52s		Presenter
EN21130484 - Mohammed Mera	5/24/23, 1:2	5/24/23, 1	30s	MohammedmerajuddinEN21130484@	MohammedmerajuddinEN Presenter
EN21190951 - kudia sharvari ar	5/24/23, 1:2	5/24/23, 2	49m 41s	sharvarikudia.EN21190951@dypisp.or	sharvarikudia.EN2119095 Presenter
Aditya Jadhav	5/24/23, 1:2	5/24/23, 1	4m 2s		Presenter
EN21182160 - landge akshata s	5/24/23, 1:2	5/24/23, 2	49m 34s	akshatalandge.EN21177729@dypisp.(	akshatalandge.EN211777 Presenter
Rutuja Pawar	5/24/23, 1:2	5/24/23, 1	5m 28s		Presenter
Om K	5/24/23, 1:2	5/24/23, 1	20m 35s		Presenter
EN21161076 - sonawane sarvac	5/24/23, 1:2	5/24/23, 2	46m 49s	sarvadnyasonawane.EN21161076@dy	sarvadnyasonawane.EN2 Presenter
EN21232539 - waghmare nikhil	5/24/23, 1:2	5/24/23, 1	29m 1s	nikhilwaghmare.EN21232539@dypisp	nikhilwaghmare.EN21232 Presenter
RAJAN THAKUR B34	5/24/23, 1:2	5/24/23, 1	1s		Presenter
1318-Yasin Shaikh	5/24/23, 1:2	5/24/23, 1	19m 39s	yasinshaikh@dypisp.onmicrosoft.com	yasinshaikh@dypisp.onm Presenter
EN21208276 - chavan utkarsha	5/24/23, 1:2	5/24/23, 2	47m 58s	utkarshachavan.EN21208276@dypisp	utkarshachavan.EN2120(Presenter
sanjana	5/24/23, 1:2	5/24/23, 1	12m 33s		Presenter
EN21117873 - Walke Mayuri Ma	5/24/23, 1:2	5/24/23, 2	33m 14s	mayuriwalke.EN21117873@dypisp.on	mayuriwalke.EN2111787: Presenter
EN21171132 - kote bhumika sor	5/24/23, 1:2	5/24/23, 2	43m 12s	bhumikakote.EN21171132@dypisp.on	bhumikakote.EN2117113: Presenter
EN21175333 - rutul dattatray bh	5/24/23, 1:2	5/24/23, 2	53m 36s	rutulbhosale.EN21173464@dypisp.on	rutulbhosale.EN21173464 Presenter
RAJAN THAKUR B34	5/24/23, 1:2	5/24/23, 1	15m 34s		Presenter
1115-Prerna Bhandare	5/24/23, 1:2	5/24/23, 2	45m 34s	prernabhandare@dypisp.onmicrosoft.(	prernabhandare@dypisp. Presenter
Aditya Jadhav	5/24/23, 1:2	5/24/23, 1	6m 7s		Presenter
Sarvesh	5/24/23, 1:2	5/24/23, 1	48s		Presenter

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Arsheyi Bhosale	5/24/23, 1:3	5/24/23, 1	49s		Presenter
SE-B-AIDS-Shantanu Shinde	5/24/23, 1:3	5/24/23, 2	23m 8s		Presenter
Vishwatej Kashid	5/24/23, 1:3	5/24/23, 1	1m 12s		Presenter
Harshal Ghugal	5/24/23, 1:3	5/24/23, 1	2m 50s		Presenter
Harsh Vishwakarma	5/24/23, 1:3	5/24/23, 1	3m 14s		Presenter
Vishwatej Kashid	5/24/23, 1:4	5/24/23, 1	23s		Presenter
Yash Thakur	5/24/23, 1:4	5/24/23, 1	1m 27s		Presenter
Devendra shete	5/24/23, 1:4	5/24/23, 1	9m 59s		Presenter
Harshal Ghugal	5/24/23, 1:4	5/24/23, 2	18m		Presenter
Harsh Vishwakarma	5/24/23, 1:4	5/24/23, 1	2m 25s		Presenter
Rohit Mahant	5/24/23, 1:4	5/24/23, 2	1h 1m 19s		Presenter
Yash Thakur	5/24/23, 1:4	5/24/23, 1	17s		Presenter
EN21154213 - Bhanudas Naray	5/24/23, 1:4	5/24/23, 1	1m 1s	bhanudasthorbole.EN21154213@dypi	bhanudasthorbole.EN211 Presenter
Aditya Jadhav	5/24/23, 1:4	5/24/23, 1	8m 22s		Presenter
Yash Thakur	5/24/23, 1:4	5/24/23, 1	10s		Presenter
Harsh Vishwakarma	5/24/23, 1:4	5/24/23, 2	12m 49s		Presenter
Yash Thakur	5/24/23, 1:5	5/24/23, 1	10s		Presenter
EN21147596 - Gawade Lata Ra	5/24/23, 1:5	5/24/23, 2	14m 30s	latagawade.EN21147596@dypisp.onm	latagawade.EN21147596 Presenter
Atharva sangle	5/24/23, 1:5	5/24/23, 1	3m 21s		Presenter
gouri chandgude	5/24/23, 1:5	5/24/23, 2	17m 46s		Presenter
Aditya Jadhav	5/24/23, 1:5	5/24/23, 2	17m 1s		Presenter
Aarya Manjrekar	5/24/23, 1:5	5/24/23, 2	3m 48s		Presenter
saraswati Chalwadi	5/24/23, 1:5	5/24/23, 2	2m 57s		Presenter
Atharva sangle	5/24/23, 1:5	5/24/23, 2	13m 45s		Presenter
Aarya Manjrekar	5/24/23, 2:0	5/24/23, 2	12m 54s		Presenter
Sargar Popat	5/24/23, 2:0	5/24/23, 2	3m 15s		Presenter
Anushka Pansare	5/24/23, 2:0	5/24/23, 2	12m 13s		Presenter
Harshal Ghugal	5/24/23, 2:0	5/24/23, 2	1m 26s		Presenter
Akash Temgire	5/24/23, 2:0	5/24/23, 2	6m 46s		Presenter
EN21207396 - ingle mansi pram	5/24/23, 2:0	5/24/23, 2	11m 4s	mansiingle.EN21207396@dypisp.onm	mansiingle.EN21207396 Presenter

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Ajaz Shaikh	5/24/23, 1:2	5/24/23, 1	17m 16s	Presenter
EN21182338 - Rittik Kumbhakar	5/24/23, 1:2	5/24/23, 1	26m 6s	RittikkumbhakarEN21182338@dypisp. RittikkumbhakarEN21182 Presenter
EN21101584 - Trigune Shantanı	5/24/23, 1:2	5/24/23, 2	1m 8s	shantanutrigune.EN21101584@dypisp shantanutrigune.EN21101 Presenter
Aarya Manjrekar	5/24/23, 1:2	5/24/23, 1	14m 49s	Presenter
Harshal Ghugal	5/24/23, 1:2	5/24/23, 1	7m 13s	Presenter
EN21154448 - Pratik Kundlik Ma	5/24/23, 1:2	5/24/23, 2	22m 10s	pratikmahajan.EN21154448@dypisp.o pratikmahajan.EN211544 Presenter
Shweta Amale	5/24/23, 1:3	5/24/23, 2	30m 49s	Presenter
EN21115380 - More Atharva Bal	5/24/23, 1:3	5/24/23, 2	32m 57s	atharvamore.EN21115380@dypisp.onı atharvamore.EN2111538(Presenter
EN21106347 - Devne Shivam Sl	5/24/23, 1:3	5/24/23, 1	7m 1s	shivamdevne.EN21106347@dypisp.or shivamdevne.EN2110634 Presenter
vishal nalage	5/24/23, 1:3	5/24/23, 2	49m 17s	Presenter
EN21112767 - Mayurbhai Chauc	5/24/23, 1:3	5/24/23, 2	42m 6s	MayurbhaichaudhariEN21112767@dy MayurbhaichaudhariEN2 Presenter
Ayush Thakare	5/24/23, 1:3	5/24/23, 1	37s	Presenter
EN21125255 - Patil Sushant Pra	5/24/23, 1:3	5/24/23, 1	25m 39s	sushantpatil.EN21125255@dypisp.onr sushantpatil.EN21125255 Presenter
Rutuja Pawar	5/24/23, 1:3	5/24/23, 2	41m 56s	Presenter
Yash Thakur	5/24/23, 1:3	5/24/23, 1	49s	Presenter
EN21198747 - gugale nayanesh	5/24/23, 1:3	5/24/23, 2	33m 23s	nayaneshgugale.EN21198747@dypisp nayaneshgugale.EN2119 Presenter
Harsh Tagde	5/24/23, 1:3	5/24/23, 2	47m 45s	Presenter
Harsh Vishwakarma	5/24/23, 1:3	5/24/23, 1	2m 39s	Presenter
Yash Thakur	5/24/23, 1:3	5/24/23, 1	16s	Presenter
1229-Purva Mhamunkar	5/24/23, 1:3	5/24/23, 1	23m 50s	purvamhamunkar@dypisp.onmicrosofi purvamhamunkar@dypisp Presenter
Aditya Jadhav	5/24/23, 1:3	5/24/23, 1	12m 22s	Presenter
Snehal Dahake	5/24/23, 1:3	5/24/23, 2	36m 33s	Presenter
EN21113562 - Akshay Abhay Th	5/24/23, 1:3	5/24/23, 2	40m 18s	akshaythombre.EN21113562@dypisp. akshaythombre.EN21113 Presenter
Vishwatej Kashid	5/24/23, 1:3	5/24/23, 1	25s	Presenter
Abhishek Shinde	5/24/23, 1:3	5/24/23, 1	3m 49s	Presenter
Jay Dake	5/24/23, 1:3	5/24/23, 1	4m 42s	Presenter
Yash Thakur	5/24/23, 1:3	5/24/23, 1	1m 39s	Presenter
Vishwatej Kashid	5/24/23, 1:3	5/24/23, 1	21s	Presenter
Pallavi Shinde	5/24/23, 1:3	5/24/23, 2	27m 44s	Presenter
Abhishek Shinde	5/24/23, 1:3	5/24/23, 2	47m 4s	Presenter

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1352-LAKSHITA MITTAL	5/24/23, 1:01:23 PM	5/24/23, 3:02:56	2h 1m 33s	lakshitamittal@dypisp.onmicrosoft.com	Presenter
1209-Siddhesh Kamire	5/24/23, 1:01:29 PM	5/24/23, 2:13:53	1h 12m 23s	siddheshkamire@dypisp.onmicrosoft.com	Presenter
Upasna Rawal	5/24/23, 1:01:57 PM	5/24/23, 1:46:56	44m 58s		Presenter
EN21154533 - Bodakhe Ganesh Nanasaheb	5/24/23, 1:02:25 PM	5/24/23, 1:24:32	22m 7s	ganeshbodakhe.EN21154533@dypisp.onmicrosoft.com	Presenter
EN21154533 - Bodakhe Ganesh Nanasaheb	5/24/23, 1:28:01 PM	5/24/23, 2:00:21	32m 20s	ganeshbodakhe.EN21154533@dypisp.onmicrosoft.com	Presenter
EN21154533 - Bodakhe Ganesh Nanasaheb	5/24/23, 2:03:40 PM	5/24/23, 2:15:01	11m 21s	ganeshbodakhe.EN21154533@dypisp.onmicrosoft.com	Presenter
EN21157435 - Barote Sujeet Jagannath	5/24/23, 1:02:40 PM	5/24/23, 1:02:44	4s	sujeetbarote.EN21157435@dypisp.onmicrosoft.com	Presenter
EN21102938 - Jagtap Shivraj Pratap	5/24/23, 1:02:41 PM	5/24/23, 1:33:02	30m 21s	shivrajagtap.EN21102938@dypisp.onmicrosoft.com	Presenter
EN21102938 - Jagtap Shivraj Pratap	5/24/23, 2:13:27 PM	5/24/23, 2:14:37	1m 10s	shivrajagtap.EN21102938@dypisp.onmicrosoft.com	Presenter
EN21100833 - Ghorpade Prithviraj Sandip	5/24/23, 1:02:43 PM	5/24/23, 1:22:55	20m 11s	Prithvirajghorpade.EN21100833@dypisp.onmicrosoft.com	Presenter
EN21100833 - Ghorpade Prithviraj Sandip	5/24/23, 1:46:23 PM	5/24/23, 2:11:16	24m 53s	Prithvirajghorpade.EN21100833@dypisp.onmicrosoft.com	Presenter
EN21100833 - Ghorpade Prithviraj Sandip	5/24/23, 2:13:13 PM	5/24/23, 3:08:45	55m 31s	Prithvirajghorpade.EN21100833@dypisp.onmicrosoft.com	Presenter
Prerana Kawade	5/24/23, 1:02:51 PM	5/24/23, 1:43:27	40m 35s		Presenter
Kartiki	5/24/23, 1:02:52 PM	5/24/23, 1:28:01	25m 9s		Presenter
Shweta Amale	5/24/23, 1:02:52 PM	5/24/23, 1:21:08	18m 16s		Presenter
Anushka Pansare	5/24/23, 1:02:53 PM	5/24/23, 2:00:42	57m 48s		Presenter
Aditya Jadhav	5/24/23, 1:02:54 PM	5/24/23, 1:24:17	21m 23s		Presenter
1214-Sakshi Kolte	5/24/23, 1:03:11 PM	5/24/23, 2:14:33	1h 11m 21s	sakshikolte@dypisp.onmicrosoft.com	Presenter
EN21129334 - Dabade Om Rajesh	5/24/23, 1:03:11 PM	5/24/23, 1:49:16	46m 4s	omdabade.EN21129334@dypisp.onmicrosoft.com	Presenter
EN21129334 - Dabade Om Rajesh	5/24/23, 2:13:22 PM	5/24/23, 2:37:57	24m 34s	omdabade.EN21129334@dypisp.onmicrosoft.com	Presenter
EN21155985 - Ghatkar Krushna Santosh	5/24/23, 1:03:21 PM	5/24/23, 1:41:33	38m 11s	krushnaghatkar.EN21155985@dypisp.onmicrosoft.com	Presenter
EN21155985 - Ghatkar Krushna Santosh	5/24/23, 1:44:42 PM	5/24/23, 2:00:17	15m 34s	krushnaghatkar.EN21155985@dypisp.onmicrosoft.com	Presenter
EN21155985 - Ghatkar Krushna Santosh	5/24/23, 2:11:36 PM	5/24/23, 2:13:29	1m 53s	krushnaghatkar.EN21155985@dypisp.onmicrosoft.com	Presenter
EN21114471 - Bhandwalkar Abhishek Suresh	5/24/23, 1:03:22 PM	5/24/23, 1:31:29	28m 7s	abhishekbhandwalkar.EN21114471@dypisp.onmicrosoft.com	Presenter
EN21114471 - Bhandwalkar Abhishek Suresh	5/24/23, 1:32:45 PM	5/24/23, 2:16:47	44m 2s	abhishekbhandwalkar.EN21114471@dypisp.onmicrosoft.com	Presenter
EN21231237 - gopane pranali laxamn	5/24/23, 1:03:22 PM	5/24/23, 1:56:46	53m 23s	pranaligopane.EN21231237@dypisp.onmicrosoft.com	Presenter
EN21231237 - gopane pranali laxamn	5/24/23, 2:13:31 PM	5/24/23, 2:15:33	2m 1s	pranaligopane.EN21231237@dypisp.onmicrosoft.com	Presenter
EN21124763 - Khule Gururaj Uday	5/24/23, 1:03:41 PM	5/24/23, 1:58:01	54m 19s	gururajkhule.EN21124763@dypisp.onmicrosoft.com	Presenter
EN21124763 - Khule Gururaj Uday	5/24/23, 2:13:27 PM	5/24/23, 2:13:39	12s	gururajkhule.EN21124763@dypisp.onmicrosoft.com	Presenter
Sargar Popat	5/24/23, 1:03:50 PM	5/24/23, 2:01:07	57m 16s		Presenter

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Shweta Amale	5/24/23, 2:(	5/24/23, 2	2m 41s			Presenter
Harshal Ghugal	5/24/23, 2:(	5/24/23, 2	5m 55s			Presenter
EN21159217 - Talvar Rahul Bha	5/24/23, 2:1	5/24/23, 2	2m 31s	rahultalvar.EN21159217@dypisp.onmi	rahultalvar.EN21159217@	Presenter
Pallavi Shinde	5/24/23, 2:1	5/24/23, 2	5m 59s			Presenter
EN21124408 - Barhate Komal B	5/24/23, 2:1	5/24/23, 2	1m 24s	komalbarhate.EN21124408@dypisp.oı	komalbarhate.EN211244(	Presenter
Harshal Ghugal	5/24/23, 2:1	5/24/23, 2	12m			Presenter
Vishwatej Kashid	5/24/23, 2:1	5/24/23, 2	38m 36s			Presenter
AADI EKHANDE	5/24/23, 2:1	5/24/23, 2	7m 44s			Presenter
EN21109254 - Akash Madhavar	5/24/23, 2:1	5/24/23, 2	10s	AkashmadhavanEN21109254@dypisp	AkashmadhavanEN2110	Presenter
EN21108178 - Amale Anurag Ya	5/24/23, 2:1	5/24/23, 2	8m 2s	anuragamale.EN21108178@dypisp.or	anuragamale.EN2110817	Presenter
harshal gangurde	5/24/23, 2:1	5/24/23, 2	29m 44s			Presenter
Ayush Thakare	5/24/23, 2:1	5/24/23, 2	1m 26s			Presenter
saraswati Chalwadi	5/24/23, 2:1	5/24/23, 2	6m 18s			Presenter
sumit gaikwad	5/24/23, 2:1	5/24/23, 2	10m 25s			Presenter
EN21148740 - Sujal Vitthal Uttel	5/24/23, 2:5	5/24/23, 2	8s	sujalEuttekar.EN21148740@dypisp.on	sujalEuttekar.EN2114874	Presenter

3. In-Meeting Activities

Name	Join Time	Leave Time	Duration	Email	Role
Prof. Poonam Nagale	5/24/23, 12:59:46 F	5/24/23, 2:21:00	1h 21m 13s	poonamn@dypisp.onmicrosoft.com	Organizer
1319-Shreya Sharma	5/24/23, 12:50:40 F	5/24/23, 1:53:17	1h 2m 37s	shreyasharma@dypisp.onmicrosoft.com	Presenter
1141-Shubham Ghume	5/24/23, 12:51:39 F	5/24/23, 12:51:5	16s	shubhamghume@dypisp.onmicrosoft.com	Presenter
1141-Shubham Ghume	5/24/23, 12:56:32 F	5/24/23, 12:58:1	1m 38s	shubhamghume@dypisp.onmicrosoft.com	Presenter
1141-Shubham Ghume	5/24/23, 1:00:36 PI	5/24/23, 2:14:08	1h 13m 32s	shubhamghume@dypisp.onmicrosoft.com	Presenter
1308-Pratima Redekar	5/24/23, 12:52:26 F	5/24/23, 1:34:31	42m 5s	pratimaredekar@dypisp.onmicrosoft.com	Presenter
1354-SHRIYA WATKAR	5/24/23, 12:56:35 F	5/24/23, 1:38:43	42m 7s	shriyawatkar@dypisp.onmicrosoft.com	Presenter
1354-SHRIYA WATKAR	5/24/23, 1:44:53 PI	5/24/23, 2:18:18	33m 25s	shriyawatkar@dypisp.onmicrosoft.com	Presenter
Chetan khulage	5/24/23, 12:59:58 F	5/24/23, 2:10:51	1h 10m 53s		Presenter
Sonali Mandlik	5/24/23, 1:00:10 PI	5/24/23, 2:19:56	1h 19m 45s		Presenter
Swarupa	5/24/23, 1:00:47 PI	5/24/23, 2:01:01	1h 13s		Presenter
kavita.kumavat	5/24/23, 1:01:15 PI	5/24/23, 2:13:40	1h 12m 25s	kavita.kumavat@vupune.ac.in	Presenter

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Ashwini A 33	5/24/23, 1:07:33 PM	5/24/23, 2:13:50	1h 6m 17s		Presenter	
Tanishka Ghate	5/24/23, 1:07:34 PM	5/24/23, 1:30:12	22m 38s		Presenter	
Tanishka Ghate	5/24/23, 1:32:31 PM	5/24/23, 2:15:02	42m 30s		Presenter	
1126-Pratik Chowdhari	5/24/23, 1:07:58 PM	5/24/23, 2:14:51	1h 6m 52s	pratikchowdhari@dypisp.onmicrosoft.com	Presenter	
1150-Ashish Ingle	5/24/23, 1:08:45 PM	5/24/23, 1:30:40	21m 54s	ashishingale@dypisp.onmicrosoft.com	Presenter	
1150-Ashish Ingle	5/24/23, 1:36:51 PM	5/24/23, 1:56:00	19m 8s	ashishingale@dypisp.onmicrosoft.com	Presenter	
EN21104425 - Khichade Nagesh Shankar	5/24/23, 1:09:34 PM	5/24/23, 1:46:51	37m 16s	nageshkhichade.EN21104425@dypisp.onmicrosoft.com	Presenter	
1245-Sayali Patil	5/24/23, 1:10:12 PM	5/24/23, 2:19:07	1h 8m 54s	sayalipatil1245@dypisp.onmicrosoft.com	Presenter	
1118-Anjali Borate	5/24/23, 1:10:14 PM	5/24/23, 2:13:55	1h 3m 41s	anjaliborate@dypisp.onmicrosoft.com	Presenter	
gouri	5/24/23, 1:10:36 PM	5/24/23, 1:22:29	11m 52s		Presenter	
Om K	5/24/23, 1:11:35 PM	5/24/23, 1:11:50	15s		Presenter	
sursj bende c-69	5/24/23, 1:11:36 PM	5/24/23, 2:17:49	1h 6m 13s		Presenter	
EN21234535 - waghmare manav avinash	5/24/23, 1:12:36 PM	5/24/23, 1:14:34	1m 58s	manavwaghmare.EN21234535@dypisp.onmicrosoft.com	Presenter	
1149-Divya Ingale	5/24/23, 1:12:41 PM	5/24/23, 2:14:51	1h 2m 9s	divyaingale@dypisp.onmicrosoft.com	Presenter	
EN21152303 - Salunke Avinash Balaji	5/24/23, 1:12:53 PM	5/24/23, 1:13:40	47s	avinashsalunke.EN21152303@dypisp.onmicrosoft.com	Presenter	
EN21156321 - Attar Harshan Firoz	5/24/23, 1:12:56 PM	5/24/23, 1:29:19	16m 23s	harshanattar.EN21156321@dypisp.onmicrosoft.com	Presenter	
EN21156321 - Attar Harshan Firoz	5/24/23, 2:13:18 PM	5/24/23, 2:13:35	16s	harshanattar.EN21156321@dypisp.onmicrosoft.com	Presenter	
Snehal Dahake	5/24/23, 1:13:43 PM	5/24/23, 1:33:10	19m 26s		Presenter	
suman jana	5/24/23, 1:14:49 PM	5/24/23, 2:13:33	58m 43s		Presenter	
EN21108515 - Adagale Yash Anil	5/24/23, 1:16:23 PM	5/24/23, 1:29:19	12m 56s	yashadagale.EN21108515@dypisp.onmicrosoft.com	Presenter	
EN21108515 - Adagale Yash Anil	5/24/23, 2:13:35 PM	5/24/23, 2:18:11	4m 35s	yashadagale.EN21108515@dypisp.onmicrosoft.com	Presenter	
1234-Rushikesh Naik	5/24/23, 1:17:11 PM	5/24/23, 2:05:52	48m 41s	rushikeshnaik@dypisp.onmicrosoft.com	Presenter	
Abhishek Hadape	5/24/23, 1:17:14 PM	5/24/23, 2:28:37	1h 11m 22s		Presenter	
Ram Garje	5/24/23, 1:17:48 PM	5/24/23, 2:17:41	59m 52s		Presenter	
Suraj	5/24/23, 1:18:16 PM	5/24/23, 1:57:04	38m 47s		Presenter	
EN21145366 - Ambre Anushka Sanjay	5/24/23, 1:18:21 PM	5/24/23, 1:19:04	43s	anushkaambre.EN21145366@dypisp.onmicrosoft.com	Presenter	
Ram	5/24/23, 1:18:24 PM	5/24/23, 1:20:55	2m 31s		Presenter	
Vishwatej Kashid	5/24/23, 1:19:06 PM	5/24/23, 1:32:28	13m 22s		Presenter	
AADI EKHANDE	5/24/23, 1:21:16 PM	5/24/23, 1:27:18	6m 2s		Presenter	
Hemangi Patil	5/24/23, 1:21:16 PM	5/24/23, 1:21:42	25s		Presenter	

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A58	5/24/23, 1:03:51 PM	5/24/23, 1:56:27	52m 35s		Presenter	
EN21101592 - Nanaware Pawan Dadaso	5/24/23, 1:03:59 PM	5/24/23, 2:13:34	1h 9m 35s	pawannanaware.EN21101592@dypisp.onmicrosoft.com	Presenter	
EN21126132 - Athani Sandeep Balappa	5/24/23, 1:04:19 PM	5/24/23, 2:13:47	1h 9m 27s	sandeepathani.EN21126132@dypisp.onmicrosoft.com	Presenter	
sursj bende c-69	5/24/23, 1:04:24 PM	5/24/23, 1:08:31	4m 7s		Presenter	
Aditya Kate	5/24/23, 1:04:43 PM	5/24/23, 1:09:48	5m 5s		Presenter	
Aditya Kate	5/24/23, 1:21:52 PM	5/24/23, 2:10:44	48m 51s		Presenter	
Jay Dake	5/24/23, 1:04:43 PM	5/24/23, 1:14:32	9m 48s		Presenter	
1227-Sohan Marsale	5/24/23, 1:04:44 PM	5/24/23, 2:31:37	1h 26m 53s	sohanmarsale@dypisp.onmicrosoft.com	Presenter	
1225-Sameer Mali	5/24/23, 1:04:57 PM	5/24/23, 2:26:00	1h 21m 3s	sameermali@dypisp.onmicrosoft.com	Presenter	
Harshal Ghugal	5/24/23, 1:04:59 PM	5/24/23, 1:24:55	19m 55s		Presenter	
1310-VISHAL SAHNI	5/24/23, 1:05:21 PM	5/24/23, 2:03:43	58m 22s	vishalsahni@dypisp.onmicrosoft.com	Presenter	
1310-VISHAL SAHNI	5/24/23, 2:05:09 PM	5/24/23, 2:18:12	13m 2s	vishalsahni@dypisp.onmicrosoft.com	Presenter	
1156-Akash Joshi	5/24/23, 1:05:22 PM	5/24/23, 2:06:45	1h 1m 22s	akashjoshi@dypisp.onmicrosoft.com	Presenter	
Shreyas Gimhavanekar	5/24/23, 1:05:25 PM	5/24/23, 1:17:14	11m 48s		Presenter	
Sharayu Benkar	5/24/23, 1:05:27 PM	5/24/23, 2:12:49	1h 7m 21s		Presenter	
Saraswati Chalwadi	5/24/23, 1:05:45 PM	5/24/23, 1:10:50	5m 4s		Presenter	
1339-Piyush Tiwari	5/24/23, 1:05:52 PM	5/24/23, 1:46:56	41m 4s	piyushtiwari@dypisp.onmicrosoft.com	Presenter	
1339-Piyush Tiwari	5/24/23, 1:51:59 PM	5/24/23, 1:56:33	4m 34s	piyushtiwari@dypisp.onmicrosoft.com	Presenter	
1154-Kaustubh Jangam	5/24/23, 1:06:07 PM	5/24/23, 2:14:37	1h 8m 29s	kaustubhjangam@dypisp.onmicrosoft.com	Presenter	
1220-Varad Landge	5/24/23, 1:06:08 PM	5/24/23, 2:12:02	1h 5m 53s	varadlandge@dypisp.onmicrosoft.com	Presenter	
1250-Tanishka Patil	5/24/23, 1:06:14 PM	5/24/23, 2:19:02	1h 12m 48s	tanishkapatil@dypisp.onmicrosoft.com	Presenter	
Anubhav Agrawal	5/24/23, 1:06:15 PM	5/24/23, 2:14:50	1h 8m 35s		Presenter	
1151-Tapaswi Jadhav	5/24/23, 1:06:18 PM	5/24/23, 2:15:18	1h 8m 59s	tapaswijadhav@dypisp.onmicrosoft.com	Presenter	
Rohit Mahant	5/24/23, 1:06:30 PM	5/24/23, 1:37:09	30m 39s		Presenter	
Atharva Chile	5/24/23, 1:06:31 PM	5/24/23, 2:14:48	1h 8m 17s		Presenter	
Nikita Bandiwar	5/24/23, 1:06:32 PM	5/24/23, 2:16:01	1h 9m 28s		Presenter	
EN21109747 - Om Khandve	5/24/23, 1:06:33 PM	5/24/23, 1:18:14	11m 41s	OmkhandveEN21109747@dypisp.onmicrosoft.com	Presenter	
EN21109747 - Om Khandve	5/24/23, 1:20:26 PM	5/24/23, 1:36:23	15m 57s	OmkhandveEN21109747@dypisp.onmicrosoft.com	Presenter	
1123-Shweta Chavan	5/24/23, 1:06:44 PM	5/24/23, 2:14:49	1h 8m 4s	shwetachavan@dypisp.onmicrosoft.com	Presenter	
EN21155538 - Geetansh Chopra	5/24/23, 1:07:04 PM	5/24/23, 1:29:18	22m 13s	GeetanshchopraEN21155538@dypisp.onmicrosoft.com	Presenter	

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1232-Khushi Morwani	5/24/23, 1:21:42 PM	5/24/23, 2:07:01 PM	45m 19s	khushimorwani@dypisp.onmicrosoft.com	Presenter
1215-Aditya Konkewad	5/24/23, 1:22:34 PM	5/24/23, 2:23:22 PM	1h 48s	adityakonkewad@dypisp.onmicrosoft.com	Presenter
SE-C Aisha	5/24/23, 1:22:54 PM	5/24/23, 2:15:06 PM	52m 11s		Presenter
EN21106958 - Kamanna Sanket Sunil	5/24/23, 1:23:14 PM	5/24/23, 1:55:03 PM	31m 49s	sanketkamanna.EN21106958@dypisp.onmicrosoft.com	Presenter
EN21106958 - Kamanna Sanket Sunil	5/24/23, 2:45:39 PM	5/24/23, 2:46:28 PM	49s	sanketkamanna.EN21106958@dypisp.onmicrosoft.com	Presenter
EN21172261 - patil bhagyashri babulal	5/24/23, 1:23:21 PM	5/24/23, 2:15:20 PM	51m 59s	bhagyashripatil.EN21172261@dypisp.onmicrosoft.com	Presenter
Sankalp B-42	5/24/23, 1:23:23 PM	5/24/23, 1:28:22 PM	4m 59s		Presenter
EN21161475 - vedpathak atharva maheshkumar	5/24/23, 1:23:25 PM	5/24/23, 3:04:38 PM	1h 41m 13s	atharvavedpathak.EN21161475@dypisp.onmicrosoft.com	Presenter
Aarya Manjrekar	5/24/23, 1:23:42 PM	5/24/23, 1:29:24 PM	5m 41s		Presenter
EN21151191 - Devyani Jayant Shingnapurkar	5/24/23, 1:23:42 PM	5/24/23, 2:09:37 PM	45m 54s	devyanishingnapurkar.EN21151191@dypisp.onmicrosoft.com	Presenter
Nerkar Aniket	5/24/23, 1:23:46 PM	5/24/23, 2:13:39 PM	49m 52s		Presenter
EN21130484 - Mohammed Merajuddin Mohammed Z	5/24/23, 1:23:51 PM	5/24/23, 1:24:22 PM	30s	MohammedmerajuddinEN21130484@dypisp.onmicrosoft.com	Presenter
EN21190951 - kudia sharvari arun	5/24/23, 1:23:54 PM	5/24/23, 2:13:35 PM	49m 41s	sharvarikudia.EN21190951@dypisp.onmicrosoft.com	Presenter
Aditya Jadhav	5/24/23, 1:23:57 PM	5/24/23, 1:28:00 PM	4m 2s		Presenter
EN21182160 - landge akshata santosh	5/24/23, 1:24:00 PM	5/24/23, 2:13:34 PM	49m 34s	akshatalandge.EN21177729@dypisp.onmicrosoft.com	Presenter
Rutuja Pawar	5/24/23, 1:25:09 PM	5/24/23, 1:30:37 PM	5m 28s		Presenter
Om K	5/24/23, 1:25:19 PM	5/24/23, 1:45:54 PM	20m 35s		Presenter
EN21161076 - sonawane sarvadnya shailesh	5/24/23, 1:25:23 PM	5/24/23, 2:11:11 PM	45m 47s	sarvadnyasonawane.EN21161076@dypisp.onmicrosoft.com	Presenter
EN21161076 - sonawane sarvadnya shailesh	5/24/23, 2:12:33 PM	5/24/23, 2:13:36 PM	1m 2s	sarvadnyasonawane.EN21161076@dypisp.onmicrosoft.com	Presenter
EN21232539 - waghmare nikhil sheshnarayan	5/24/23, 1:25:37 PM	5/24/23, 1:54:38 PM	29m 1s	nikhilwaghmare.EN21232539@dypisp.onmicrosoft.com	Presenter
RAJAN THAKUR B34	5/24/23, 1:26:25 PM	5/24/23, 1:26:27 PM	1s		Presenter
1318-Yasin Shaikh	5/24/23, 1:26:43 PM	5/24/23, 1:46:22 PM	19m 39s	yasinshaikh@dypisp.onmicrosoft.com	Presenter
EN21208276 - chavan utkarsha bapusaheb	5/24/23, 1:26:58 PM	5/24/23, 2:14:57 PM	47m 58s	utkarshachavan.EN21208276@dypisp.onmicrosoft.com	Presenter
sanjana	5/24/23, 1:27:10 PM	5/24/23, 1:39:43 PM	12m 33s		Presenter
EN21117873 - Walke Mayuri Machindra	5/24/23, 1:27:10 PM	5/24/23, 2:00:25 PM	33m 14s	mayuriwalke.EN21117873@dypisp.onmicrosoft.com	Presenter
EN21171132 - kote bhumika somnath	5/24/23, 1:27:36 PM	5/24/23, 2:07:35 PM	39m 58s	bhumikakote.EN21171132@dypisp.onmicrosoft.com	Presenter
EN21171132 - kote bhumika somnath	5/24/23, 2:14:25 PM	5/24/23, 2:17:40 PM	3m 14s	bhumikakote.EN21171132@dypisp.onmicrosoft.com	Presenter
EN21175333 - rutul dattatray bhosale	5/24/23, 1:27:37 PM	5/24/23, 2:21:06 PM	53m 28s	rutulbhosale.EN21173464@dypisp.onmicrosoft.com	Presenter
EN21175333 - rutul dattatray bhosale	5/24/23, 2:23:36 PM	5/24/23, 2:23:45 PM	8s	rutulbhosale.EN21173464@dypisp.onmicrosoft.com	Presenter
RAJAN THAKUR B34	5/24/23, 1:27:54 PM	5/24/23, 1:43:29 PM	15m 34s		Presenter

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1115-Prerna Bhandare	5/24/23, 1:28:13 PM	5/24/23, 2:13:48	45m 34s	prernabhandare@dypisp.onmicrosoft.com	Presenter
Aditya Jadhav	5/24/23, 1:28:46 PM	5/24/23, 1:34:54	6m 7s		Presenter
Sarvesh	5/24/23, 1:29:37 PM	5/24/23, 1:30:25	48s		Presenter
Ajaz Shaikh	5/24/23, 1:29:38 PM	5/24/23, 1:46:55	17m 16s		Presenter
EN21182338 - Rittik Kumbhakar	5/24/23, 1:29:43 PM	5/24/23, 1:55:50	26m 6s	RittikkumbhakarEN21182338@dypisp.onmicrosoft.com	Presenter
EN21101584 - Trigune Shantanu Mangesh	5/24/23, 1:29:45 PM	5/24/23, 1:30:07	21s	shantanutrigune.EN21101584@dypisp.onmicrosoft.com	Presenter
EN21101584 - Trigune Shantanu Mangesh	5/24/23, 2:13:22 PM	5/24/23, 2:14:10	47s	shantanutrigune.EN21101584@dypisp.onmicrosoft.com	Presenter
Aarya Manjrekar	5/24/23, 1:29:49 PM	5/24/23, 1:44:38	14m 49s		Presenter
Harshal Ghugal	5/24/23, 1:29:49 PM	5/24/23, 1:37:03	7m 13s		Presenter
EN21154448 - Pratik Kundlik Mahajan	5/24/23, 1:29:56 PM	5/24/23, 1:33:47	3m 51s	pratikmahajan.EN21154448@dypisp.onmicrosoft.com	Presenter
EN21154448 - Pratik Kundlik Mahajan	5/24/23, 1:42:01 PM	5/24/23, 2:00:20	18m 19s	pratikmahajan.EN21154448@dypisp.onmicrosoft.com	Presenter
Shweta Amale	5/24/23, 1:30:13 PM	5/24/23, 2:01:03	30m 49s		Presenter
EN21115380 - More Atharva Balasaheb	5/24/23, 1:30:14 PM	5/24/23, 2:02:22	32m 7s	atharvamore.EN21115380@dypisp.onmicrosoft.com	Presenter
EN21115380 - More Atharva Balasaheb	5/24/23, 2:13:26 PM	5/24/23, 2:14:16	50s	atharvamore.EN21115380@dypisp.onmicrosoft.com	Presenter
EN21106347 - Devne Shivam Shriram	5/24/23, 1:30:16 PM	5/24/23, 1:32:02	1m 46s	shivamdevne.EN21106347@dypisp.onmicrosoft.com	Presenter
EN21106347 - Devne Shivam Shriram	5/24/23, 1:33:35 PM	5/24/23, 1:38:50	5m 15s	shivamdevne.EN21106347@dypisp.onmicrosoft.com	Presenter
vishal nalage	5/24/23, 1:30:20 PM	5/24/23, 2:19:38	49m 17s		Presenter
EN21112767 - Mayurbhai Chaudhari	5/24/23, 1:30:36 PM	5/24/23, 2:12:42	42m 6s	MayurbhaichaudhariEN21112767@dypisp.onmicrosoft.com	Presenter
Ayush Thakare	5/24/23, 1:30:48 PM	5/24/23, 1:31:25	37s		Presenter
EN21125255 - Patil Sushant Prashant	5/24/23, 1:31:11 PM	5/24/23, 1:56:51	25m 39s	sushantpatil.EN21125255@dypisp.onmicrosoft.com	Presenter
Rutuja Pawar	5/24/23, 1:31:28 PM	5/24/23, 2:00:06	28m 37s		Presenter
Rutuja Pawar	5/24/23, 2:01:27 PM	5/24/23, 2:14:47	13m 19s		Presenter
Yash Thakur	5/24/23, 1:31:40 PM	5/24/23, 1:32:30	49s		Presenter
EN21198747 - gugale nayanesh nilesh	5/24/23, 1:31:56 PM	5/24/23, 1:38:13	6m 17s	nayaneshgugale.EN21198747@dypisp.onmicrosoft.com	Presenter
EN21198747 - gugale nayanesh nilesh	5/24/23, 1:47:41 PM	5/24/23, 2:14:47	27m 6s	nayaneshgugale.EN21198747@dypisp.onmicrosoft.com	Presenter
Harsh Tagde	5/24/23, 1:32:02 PM	5/24/23, 2:19:48	47m 45s		Presenter
Harsh Vishwakarma	5/24/23, 1:32:16 PM	5/24/23, 1:34:55	2m 39s		Presenter
Yash Thakur	5/24/23, 1:32:47 PM	5/24/23, 1:33:04	16s		Presenter
1229-Purva Mhamunkar	5/24/23, 1:32:54 PM	5/24/23, 1:56:44	23m 50s	purvamhamunkar@dypisp.onmicrosoft.com	Presenter
Aditya Jadhav	5/24/23, 1:33:40 PM	5/24/23, 1:46:02	12m 22s		Presenter

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Snehal Dahake	5/24/23, 1:34:06 PM	5/24/23, 2:10:39	36m 33s	Presenter
EN21113562 - Akshay Abhay Thombre	5/24/23, 1:34:24 PM	5/24/23, 2:14:43	40m 18s	akshaythombre.EN21113562@dypisp.onmicrosoft.com Presenter
Vishwatej Kashid	5/24/23, 1:34:39 PM	5/24/23, 1:35:05	25s	Presenter
Abhishek Shinde	5/24/23, 1:34:45 PM	5/24/23, 1:38:34	3m 49s	Presenter
Jay Dake	5/24/23, 1:34:46 PM	5/24/23, 1:39:29	4m 42s	Presenter
Yash Thakur	5/24/23, 1:34:49 PM	5/24/23, 1:36:28	1m 39s	Presenter
Vishwatej Kashid	5/24/23, 1:36:20 PM	5/24/23, 1:36:41	21s	Presenter
Pallavi Shinde	5/24/23, 1:36:53 PM	5/24/23, 2:04:37	27m 44s	Presenter
Abhishek Shinde	5/24/23, 1:37:02 PM	5/24/23, 2:24:06	47m 4s	Presenter
Arsheyi Bhosale	5/24/23, 1:37:56 PM	5/24/23, 1:38:45	49s	Presenter
SE-B-AIDS-Shantanu Shinde	5/24/23, 1:37:56 PM	5/24/23, 2:01:04	23m 8s	Presenter
Vishwatej Kashid	5/24/23, 1:38:23 PM	5/24/23, 1:39:36	1m 12s	Presenter
Harshal Ghugal	5/24/23, 1:38:28 PM	5/24/23, 1:41:18	2m 50s	Presenter
Harsh Vishwakarma	5/24/23, 1:39:15 PM	5/24/23, 1:42:30	3m 14s	Presenter
Vishwatej Kashid	5/24/23, 1:41:32 PM	5/24/23, 1:41:55	23s	Presenter
Yash Thakur	5/24/23, 1:42:09 PM	5/24/23, 1:43:36	1m 27s	Presenter
Devendra shete	5/24/23, 1:42:09 PM	5/24/23, 1:52:08	9m 59s	Presenter
Harshal Ghugal	5/24/23, 1:42:09 PM	5/24/23, 2:00:09	18m	Presenter
Harsh Vishwakarma	5/24/23, 1:44:06 PM	5/24/23, 1:46:32	2m 25s	Presenter
Rohit Mahant	5/24/23, 1:44:08 PM	5/24/23, 1:54:02	9m 54s	Presenter
Rohit Mahant	5/24/23, 1:55:27 PM	5/24/23, 2:46:52	51m 25s	Presenter
Yash Thakur	5/24/23, 1:45:44 PM	5/24/23, 1:46:01	17s	Presenter
EN21154213 - Bhanudas Narayan Thorbole	5/24/23, 1:48:23 PM	5/24/23, 1:49:25	1m 1s	bhanudasthorbole.EN21154213@dypisp.onmicrosoft.com Presenter
Aditya Jadhav	5/24/23, 1:48:23 PM	5/24/23, 1:56:45	8m 22s	Presenter
Yash Thakur	5/24/23, 1:48:24 PM	5/24/23, 1:48:35	10s	Presenter
Harsh Vishwakarma	5/24/23, 1:48:26 PM	5/24/23, 2:01:15	12m 49s	Presenter
Yash Thakur	5/24/23, 1:50:37 PM	5/24/23, 1:50:48	10s	Presenter
EN21147596 - Gawade Lata Ratan	5/24/23, 1:52:40 PM	5/24/23, 1:57:02	4m 22s	latagawade.EN21147596@dypisp.onmicrosoft.com Presenter
EN21147596 - Gawade Lata Ratan	5/24/23, 1:59:18 PM	5/24/23, 2:09:27	10m 8s	latagawade.EN21147596@dypisp.onmicrosoft.com Presenter
Atharva sangle	5/24/23, 1:55:27 PM	5/24/23, 1:58:49	3m 21s	Presenter

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gouri chandgude	5/24/23, 1:56:08 PM	5/24/23, 2:13:54	17m 46s	Presenter
Aditya Jadhav	5/24/23, 1:56:29 PM	5/24/23, 2:13:31	17m 1s	Presenter
Aarya Manjrekar	5/24/23, 1:56:46 PM	5/24/23, 2:00:34	3m 48s	Presenter
saraswati Chalwadi	5/24/23, 1:57:06 PM	5/24/23, 2:00:04	2m 57s	Presenter
Atharva sangle	5/24/23, 1:59:46 PM	5/24/23, 2:13:32	13m 45s	Presenter
Aarya Manjrekar	5/24/23, 2:01:25 PM	5/24/23, 2:14:20	12m 54s	Presenter
Sargar Popat	5/24/23, 2:02:29 PM	5/24/23, 2:05:45	3m 15s	Presenter
Anushka Pansare	5/24/23, 2:02:44 PM	5/24/23, 2:14:58	12m 13s	Presenter
Harshal Ghugal	5/24/23, 2:02:44 PM	5/24/23, 2:04:10	1m 26s	Presenter
Akash Temgire	5/24/23, 2:03:04 PM	5/24/23, 2:09:50	6m 46s	Presenter
EN21207396 - ingle mansi pramod	5/24/23, 2:03:15 PM	5/24/23, 2:14:19	11m 4s	mansiingle.EN21207396@dypisp.onmicrosoft.com Presenter
Shweta Amale	5/24/23, 2:03:29 PM	5/24/23, 2:06:11	2m 41s	Presenter
Harshal Ghugal	5/24/23, 2:04:53 PM	5/24/23, 2:10:49	5m 55s	Presenter
EN21159217 - Talvar Rahul Bhau	5/24/23, 2:11:02 PM	5/24/23, 2:13:33	2m 31s	rahultalvar.EN21159217@dypisp.onmicrosoft.com Presenter
Pallavi Shinde	5/24/23, 2:12:28 PM	5/24/23, 2:18:28	5m 59s	Presenter
EN21124408 - Barhate Komal Bhagvat	5/24/23, 2:13:10 PM	5/24/23, 2:14:35	1m 24s	komalbarhate.EN21124408@dypisp.onmicrosoft.com Presenter
Harshal Ghugal	5/24/23, 2:13:10 PM	5/24/23, 2:25:11	12m	Presenter
Vishwatej Kashid	5/24/23, 2:13:31 PM	5/24/23, 2:52:08	38m 36s	Presenter
AADI EKHANDE	5/24/23, 2:13:31 PM	5/24/23, 2:21:16	7m 44s	Presenter
EN21109254 - Akash Madhavan	5/24/23, 2:13:33 PM	5/24/23, 2:13:44	10s	AkashmadhavanEN21109254@dypisp.onmicrosoft.com Presenter
EN21108178 - Amale Anurag Yashwant	5/24/23, 2:13:33 PM	5/24/23, 2:21:35	8m 2s	anuragamale.EN21108178@dypisp.onmicrosoft.com Presenter
harshal gangurde	5/24/23, 2:14:09 PM	5/24/23, 2:43:54	29m 44s	Presenter
Ayush Thakare	5/24/23, 2:14:16 PM	5/24/23, 2:15:42	1m 26s	Presenter
saraswati Chalwadi	5/24/23, 2:14:16 PM	5/24/23, 2:20:35	6m 18s	Presenter
sumit gaikwad	5/24/23, 2:15:40 PM	5/24/23, 2:26:06	10m 25s	Presenter
EN21148740 - Sujal Vitthal Uttekar	5/24/23, 2:51:03 PM	5/24/23, 2:51:12	8s	sujalEuttekar.EN21148740@dypisp.onmicrosoft.com Presenter

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Best Practice – I

Competency Based Education and Assessment

Name of the faculty: - ...Dr. Dileep more.....

Name of the Subject :- ...manufacturing process.....

Department: .....mechanical Engg.....

Class: ..SE..... Div: ....A.....

Competency Based Learning (Part A and Part B)

It is an active, adaptive, experiential and participatory learning where students' choice and voice are present in order to bring variety and variation in learning.

Note- Part A and B should cover latest developments, advancements, innovations and technologies in the subject domain.

{Select at least Three from each of Part-A & Part-B for every subject and map the outcome of activity}

Part A- Experiential Learning (Learning by Doing) (**Reference**: NAAC Manual Pg. 72)

Is a process of learning through experience and is more specifically defined as "learning through reflection on doing".

The following statements/ questions are related to the subject you teach in this semester

1. Is it possible to develop any prototype or model by the students related to the subject? Yes / No ✓
   If Yes, mention the related UNIT No. ..... and Prototype Name - .....
2. Do you want to show any product demo to the students related to any topic / UNIT? ✓ Yes / No
   If Yes, mention the related UNIT No. ..1... and Name of the Demo - ...casting part.....
3. Do you want to assign any mini / major project to the students related to any topic? Yes / No ✓
   If Yes, mention the related UNIT No. ..I... and the Project Name- .....
4. Are you going to arrange any industrial / Field / Laboratory visit? ✓ Yes / No
   Name of Industry /Field/Lab visit - .....Aditi Industries, Nashik.....
5. Do you want to discuss a case studies related to the subject domain? ✓ Yes / No
   If Yes, mention the UNIT No. ...IV..... and Title of the case study - .....case study about resistance projection welding.

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6. Do you want to focus on any simulation/gaming based learning in the subject? Yes / No ✓

   If Yes, mention the UNIT No. ..... and Name of the Simulation/Game- .....

7. Do you want to assign any mentor from industry /company to the students so that they can understand the subject well? Yes ✓ / No

   If Yes, Name of the mentor and Industry name – Tejas mondhe - Aditi Industries

8. Is there any student club at department /college level related to the subject domain? Yes / No ✓

   If Yes, Number of students to be enrolled to the club –

9. Do you want to conduct any workshop related to the subject domain? Yes / No ✓

   If Yes, Name of the workshop- ..... No. of students enrolled –

10. Do you want to invite any expert / guest from an industry related to the subject? Yes ✓ / No

    If Yes, Name of the expert- Tejas mondhe Name of the Topic – manufacturing process

11. Do you want to empower the students to join an ad-on- course related to the subject? Yes / No ✓

    If Yes, Name of the Ad-on-courses available - .....No. of students to be enrolled –

12. Do you want to empower the students to join a skill and practical oriented courses related to the subject? Yes / No ✓

    If Yes, Name of the course available - .....No. of students to be enrolled –

13. Do you want to show a few videos on advances, latest development and technology in the domain or subject? Yes ✓ / No

    If Yes, Number of Videos to be shown (maintain the record)- 30 Nos.

14. Any course available for the students w.r.t the subject domain at different learning platforms like Udemy, Coursera, Skillshare, MasterClass, Edx, Udacity etc. Yes / No

    Name of the courses -

Part –B Participative Learning (Learning by participating) (Reference- NAAC Manual Pg. 75)

Participatory Learning and Action is a family of approaches, methods, attitudes, behaviours and relationships, which enable and empower people to share, analyze and enhance their knowledge of their life and conditions, and to plan, act, monitor, evaluate and reflect.

1. Do you want to ask open ended questions in the domain? Yes ✓ / No

   UNIT No.- IV Question 1:- could you use welding in Aeroplane?

   UNIT No.- ..... Question 2:- .....

   UNIT No.- ..... Question 3:- .....

2. Do you want to conduct group discussion/ Buzz sessions in the subject domain? Yes ✓ / No

   UNIT No.- IV Topic - How to make plastic product

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ng, Lohegaon, Pune

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UNIT No.- ..... Topic - .....

3. Do you want to use a question bowl approach in the discussion? Yes / No
   Topic- ...where is the coelding used Unit-IV.....
4. Do you want to conduct news analysis with the help of student on any topic? Yes / No
   Unit No. ..... Example .....
5. Do you want to focus on peer learning w.r.t. the subject? Yes / No
   Unit No. ..... Example .....
6. Do you want to use survey methods with the help of student to understand any topic? Yes / No
   Unit No. ..... Example .....
7. Do you want to use Brainstorming session to understand the topic better? Yes / No
   Unit No. ...III..... Name of the Topic ...Examples of sheet metals process.....
8. Do you want to conduct a small scale research in the subject domain with the help of students? Yes / No
   Unit No. ..... Topic .....
9. Do you take any initiative with the help of the students to collect information related to a topic for better learning? Yes / No
   Unit No. ...VI..... Topic ...Examples of composit.....
10. Is there any possibility of using a critical incident in the subject domain for better teaching and learning? Yes / No
    Unit No. ..... Incident .....
11. Do you want to use the approach of video viewing and discussion? Yes / No
12. Do you want to use any other participatory approach or method or game in teaching and learning? Yes / No
    Name of the approach /method/game - .....

Sign of Subject Teacher:

Sign of HoD

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Best Practice – II

Form No:IQAC/45

Bridging the Gap between Education and Employment through Industry Connect

Name of the faculty: - ...Dr. Dileep more.....

Name of the Subject: - ..Manufacturing process.....Class: SE..... Div: ...A...

Sector of the industry Identified: - ....Casting / Sheet metal

Name of the industry to be connected:- ...Aditi Industries Nashik

Plan of Action (PoA):- {Select at least five for each subject and map the outcome of activity}

1. Do you want to sign Sign MoU with the industry? ☑ Yes ☐ No Tentative date to sign the MoU:- 05/06.../2023
2. Are there any hot topics, areas, trends, advances, technologies in the industry sector? ☑ Yes ☐ No
   Mention Names- ...Composit.....
3. Do you want to identify issues, problems and challenges in the industry? ☑ Yes ☐ No
   List the issues.....
4. Do you want to conduct the product survey of the industry with the help of students? ☐ Yes ☑ No
5. Do you want to let the students to understand the website of the industry? ☐ Yes ☑ No
6. Do you want to arrange a physical visit to the industry? ☐ Yes ☑ No
7. Do you want to arrange a virtual visit of the industry? ☑ Yes ☐ No
8. Do you want to arrange a guest lecture? ☑ Yes ☐ No
   Title of the guest lecture -....casting software developed by IIT Bombay
9. Is it possible to get sponsored project(s) from the industry for the final year students? ☐ Yes ☑ No
10. Is it possible to get internship for the SE/TE students from the industry? ☐ Yes ☑ No
11. Do you want to write a conference paper/article on the best practices of the industry by involving students? ☐ Yes ☑ No
12. Do you want to arrange a hands-on workshop for the subject in collaboration with the industry?
    Title of the workshop - ..... ☐ Yes ☑ No
13. Is there any skill development course available in the market w.r.t the subject? ☐ Yes ☑ No
    Title of the course -
14. Are there any skilling, upskilling, reskilling or multiskilling trainings /workshops available at, NSDC/Skill India/Make in India for the subject? ☐ Yes ☑ No
    Names of the courses –
15. Do you want to motivate the students to participate in National/international employability tests or exams in the subject? ☐ Yes ☑ No
    Name of the tests - .....

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Sign of Subject Teacher: Dr. Dileep more

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Sign of HoD

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Date: 22 / 05 /2023

Event Report

Academic Year: 2022-23 **Semester- II**

Name of the event: Demonstration of Injection Molding

Date and Time	22 May 2023 Time 4.15 to 4.30 pm
Event Venue	Mechanical Workshop
Organized by	Dr. Dileep More
Targeted Audience	12
Resource Person	Dr. Dileep More

Event Contents:

1. Demonstrate Polymer/Plastic Injection Molding

Details of the event:

In Unit- IV there are different processes of making Polymer products and Polymer/plastic injection molding is one of them. The event demonstrates different parts of injection molding device and its working principal. The event focuses more on practical aspect of the process addressing issues and advantages of injection molding.

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Geotagged Photos:

Name and Sign of Coordinator: Dr. Dileep More

Departmental Event Coordinator: _____

HoD: _____

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Best Practice:-

Title of the Best Practice:- plastic injection molding

Subject:- Manufacturing Process

Division:- SE (A)

Date:- 22/05/23

Sr. no	Name of the Student	Roll No	Sign
1	pavan vikas badgujar	148	Pavan
2	Rohan R. gawade	135	Rgawade
3	Ajay Narayan Changulpaye	123	Achangulpaye
4.	Abhijeet Ananda Bhure	125	Abhure
5.	Kangune. Shubham Balkrushna	126	Kangune.S.B.
6.	Sachin Sadanand Zagade	172	सजगाडे
7.	Harshdip Jaysing Powate	174	Hpowate
8.	Suman kumar sahu.	133	Suman
9.	Karpe Vedant Rajendra	194	Vedant
10.	Panchal Shrinivas Ramesh	107	Shravchal
11.	Yashwant Dagdu Hogale	138	Yashwant
12.	Shantanu Shyam Vadekar	180	Vadekar

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Date: 22 / 05 /2023

Event Report

Academic Year: 2022-23 **Semester- II**

Name of the event: Demonstrate TIG and MIG Welding

Date and Time	22 May 2023 Time 4.30 to 5.00 pm
Event Venue	Mechanical Workshop
Organized by	Dr. Dileep More
Targeted Audience	12
Resource Person	Dr. Dileep More

Event Contents:

1. Demonstrate and Differentiate TIG and MIG Welding

Details of the event:

In Unit-III, there are different types of arc welding processes. TIG and MIG are the main processes. Theoretically, it is very difficult to understand the principal of working and differentiate them. In the event, we show different parts of TIG and MIG Welding and practically show how they are different. The student also learnt how to weld the parts using TIG and MID welding processes.

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Geotagged Photos:

Name and Sign of Coordinator: Dr. Dileep More

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Departmental Event Coordinator: _____

HoD: _____

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Lohegaon, Pune

Best Practice:-

Title of the Best Practice:- MIG & TIG welding

Subject:- Manufacturing Process

Division:- SE (A)

Date:- 22/05/23

Sr. no	Name of the Student	Roll No	Sign
1.	Powale Harshdip Jaysing	174	Powale.
2.	Suman Kumar Sahu	133	Suman
3.	Karpe Vedant Rajendra	194	Karpe.
4.	Shantanu Shyam Vadekar	150	Vadekar
5	Powale Harshdip Jaysing	174	Powale.
6.	Kangune Shubham Balkrushna	126	Kangune S.B.
7	Ajay Narayan Changulpaye	123	Changulpaye
8.	Abhijeet Ananda Bhure	125	Abhure
9.	Sachin Sadanand Zagare	172	सचिन
10.	Shrinivas Ramesh Panchal	107	SPanchal
11.	Yashwant Dagdu Hogale	138	Yashwant
12.	pavan vikas badgujar	148	Pawar
13.	Rohan R. gawade	135	Rgawade.

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Event Report

Academic Year: 2022-23 **Semester- II**

Name of the event: Demonstration of Casting Parts

Date and Time	17 Feb 2023 Time 4.00 to 4.25 pm
Event Venue	Class Room 528
Organized by	Dr. Dileep More
Targeted Audience	30
Resource Person	Dr. Dileep More

Event Contents:

Demonstration of Casting Parts

Details of the event:

In order to start the Unit I on Casting Processes, a casting part was demonstrated to the students. The purpose was as below.

1. Study the nature of casting parts
2. Understand advantages and limitations of casting parts and processes
3. Type of casting process required
4. Understand defects in the casting part

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Geotagged Photos:

Name and Sign of Coordinator: Dr. Dileep More

Departmental Event Coordinator: _____

HoD: _____

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Best Practice:-

Title of the Best Practice:-

Subject:- Manufacturing Process

Division:- SE (A)

Date:-

Page no.:

Sr. no	Name of the Student	Roll No	Sign
1	Rohit Sachin Waghmare	115	Rwagh.
2	Sitaram Sawant	116	
3	Rohit Shivaji Vispute	152	Rohit.
4	Pratik Suresh Gawade	118	P.S.Gawade
5.	Riddhi Chetan Khairnar	151	Khairnar.
6.	Siddhi Chetan Khairnar	164	Khairnar.

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Date: 22 / 05 /2023

Event Report

Academic Year: 2022-23 **Semester- II**

Name of the event: Question Bowl to understand Composite Material

Date and Time	22 May 2023 Time 4.00 to 4.10 pm
Event Venue	Class Room 424
Organized by	Dr. Dileep More
Targeted Audience	12
Resource Person	Dr. Dileep More

Event Contents:

1. Set of questions in Bowl related to composite material

Details of the event:

In order to start the Unit VI on composite material, a set of open ended questions were asked to students to understand their knowledge about the composite materials as below.

1. Do you know the composite material?
2. Give a few examples of composite product that you see in your daily life.
3. Do you know reinforcement?
4. Have you heard about the term "Matrix"?
5. How could you make a good strength product using wax and cotton fibers. Explain the procedure as you think
6. Applications of composite material and the reasons?

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Geotagged Photos:

Name and Sign of Coordinator: Dr. Dileep More

Departmental Event Coordinator: _____

HoD: _____

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Lohegaon, Pune

Best Practice:-

Title of the Best Practice:- Question Bank Approach.

Subject:- Manufacturing Process

Division:- SE (A)

Date:- 22/05/22

Sr. no	Name of the Student	Roll No	Sign
1.	Ajay Narayan Changulpaye	123	Changulpaye
2.	Abhijeet Ananda Bhure	125	Bhure
3.	Kangune Shubham Balkrushna	126	Kangune S.B.
4.	Sachin Sadanand Zagade	172	
5.	pavan vikas badgujar	148	Pawar
6.	Rohan R. gawade	135	Gawade.
7.	Shrinivas Ramesh Panchal	107	Panchal
8.	Yashwant Dagdu Hogale	138	Yashwant
9.	Powale Harshdip Jaysing	175	Powar
10.	Suman Kumar Sahu.	133	Suman
11.	Sedant Rajendra Karpe	194	Sedat
12.	Shantanu Shyam Vadekar	150	Vadekar

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CASE STUDY ABOUT RESISTANCE PROJECTION WELDING OF ALUMINIZED STEEL PARTS

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ABSTRACT

Resistance projection welding is a non-polluting mechanized process used to obtain an assembly between similar or dissimilar metallic materials. The main advantages of this welding process are the possibility to achieve many different welded points at the same time and the long life of the electrodes compared to the spot-welding process. The paper analyses the effects of thin aluminium coating existing on mild steel parts of on the correct formation of welding points when assembling moulds for the manufacture of baking bread. From optical and electron microscopy analyses it resulted that some adjacent welded points show an interrupted fusion line, sprinkled with elongated islands of aluminium-rich compounds. The paper presents the effect of changing the values of the welding parameters on the weld spot size, in correlation with the Al-rich inclusions that appear on the weld fusion zone. The best results have been obtained when the welding parameters values were the follows: electrode pressure of 2.6 bar, welding power of 19.18kVA and welding time of 7ms. The problems that occur when electric resistance welding of parts with aluminium coating have been highlighted, being useful for specialists who make products using this welding process.

KEYWORDS: projection welding, aluminium coating, microstructure.

1. INTRODUCTION

The projection welding process is derived from the general scheme of spot resistance welding, with the difference that the joint areas have provided some contact points obtained by local deformation of the surface (projections) to concentrate the current lines during welding [1] – [3]. Spot resistance welding is mainly used for thin sheet metal welding having the same thickness, while projection welding can also be applied to components with different thicknesses.

In projection welding (Fig. 1), the components to be welded (1 and 2) are pressed with force *P* by means of the flat surface electrodes (4 and 5), connected to the secondary of the low voltage electrical transformer (6). In the contact area of these protrusions a concentration of electric current and pressing force is obtained. In the first stage the protrusions, and areas adjacent to the contact between the protrusion tips are fast heated. When the melting temperature is reached in this contact area, due to the decrease of the yield strength of the materials, the protrusions flatten under the influence of pressure force P, and the welding continues to be carried out similarly to spot welding [3].

The joint will contain several welding points, located on the protrusions made on one of the components. Obtaining quality joints is conditioned, first, by a careful performing of the protrusions and by ensuring the optimal cleaning of the surfaces, so that the welding current and the pressing force are distributed as evenly as possible on the protrusions.

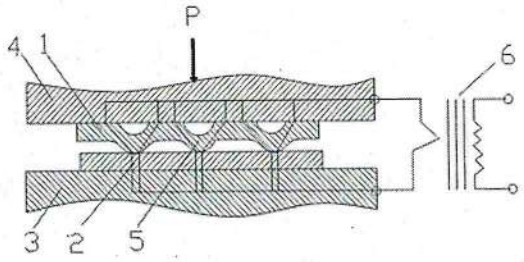

Fig. 1. Schematic of resistance projection welding process: 1 - upper sample with projections; 2 - flat sample; 3 and 4 - lower and upper electrodes of the pressing device; 5 - projection made by cold deformation; 6 - power supply for welding

When welding several projections at the same time, problems may occur in the equal distribution of current and heat, which can cause uneven flattening of the protrusions. Such problems can be avoided by

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setting the optimal distance between the projections (to four times their diameter). Usually, the projection shape and height (0.5 to 1.5mm) are established based on the material thickness, elongation, and yield strength [3], [4]. In projection welding the nut leg geometry is decisive for the joint resistance (the optimum value is less than 0.2mm) [4]. Due to the fast decrease in the yield strength value of the material during heating, many tests are required to adjust the right values of the welding parameters [5]-[7]. The surface preparation of the samples before welding is an important factor that affects the weld quality. Any contaminant, like grease and oxide pellicles dramatically affect the resistance of the contact area between pieces [7], [8].

The electrode material must have a very good electrical conductivity to minimize overheating of the contact area between it and the parts to be welded. Although copper is the preferred metal, Cu-Cr or Cu-Cr-Be alloys are sometimes used to increase the compressive strength of the electrode [9] - [12]. In some works [9], [10] have been reported that to increase the durability of electrodes for electric resistance welding, a composite matrices by incorporating tungsten carbides into copper matrices can be used.

A feature of projection welding is the ability to quickly remove coating layers from the surface, allowing direct exposure of the two metals to form welded nugget. This aspect is beneficial because often the coating material can diffuse in the weld and forms compounds that diminish the mechanical resistance.

An example is the welding of galvanized steel, when the rapid evaporation of zinc causes the formation of pores in the weld. Another issue occurs when welding parts made of different materials, such as steel and aluminum, or when welding aluminum-plated steel sheets [12]-[14].

Reported studies have shown that if the welding current increases from 4 to 11 kA and the welding time increases from 50 to 300 ms, the diameter of the welded nugget increases [12], causing the coarse grains formation and cracks at the interface of the joint [15]. In these situations, weaker adhesion values and cracks in the weld were reported, by weakening the grain boundaries due to intermetallic compounds (Fe_2Al_5 and Fe_4Al_{13} phases) formation [15] - [18].

Aluminizing is a thermo-chemical diffusion process carried out at high temperatures, typically in the range of 800–1000°C, where the surface layer of the material is impregnated with aluminium. Using powder pack method, the temperature for aluminizing can decrease to 550°C. It is primarily used on steels, but also on nickel and cobalt based alloys to obtain greater creep resistance, hardness, and corrosion resistance. During welding, the aluminized coating may suffer various changes in thickness, effects of vaporization and expulsion from surfaces, as well as cracks or exfoliation [19]. For this reason, welding of aluminized parts requires more tests than uncoated ones.

The paper analyzes the effect of welding parameters on the weld interface obtained by resistance projection process. The welded parts were made of aluminized steel sheet having different thickness. Since 3 points were made at the same time, their dimensions are analyzed comparatively. The geometry of the welded areas with different values of the welding parameters are analyzed, with the highlighting of the chemical elements concentration and associated phenomena due to intermetallic compounds that apears on the weld interface.

2. MATERIAL AND METHODS

In the research program, aluminized steel parts were welded using a TECNA 8005D Series Spot and Projection Welder machine (maximum welding power of 200 kVA, maximum welding current for steel of 28kVA). The flat-faced electrode with the working surface of 25x25mm was used for experiments.

The microstructural analysis was performed by optical microscopy, using the Olympus GX51 microscope equipped with specialized software for image processing (AnalySis) and by scanning electron microscopy using the Inspect S microscope equipped with Z2e EDAX AMETEC sensor.

The microhardness testing was performed with the Shimadzu HMV 2T equipment in the following conditions: temperature +25°C (reference temperature +23 ±5°C) and 55% humidity. The micro-hardness was measured on the cross section of the welded samples, applying the indentation load of 0.2 N and the indentation time of 10s.

The shear strength of welded samples was measured using tensile / compression test "W + b" Walter + bai ag testing machine, Switzerland. For this test, test samples with a width of 32 mm and a length of 150 mm were performed. On these samples, 3 protrusions were made simultaneously, with the same dimensions (depth and diameter). The samples were superimposed on a length of 32 mm and then were welded using the values of the established regime parameters.

To study he microstructure and to measure the microhardness on the welded area the welded spots were cut using high precision cutting machine IsoMet 4000. The cross-section areas were hot incorporated into the conductive resin (Fig. 2), and then were subjected to rough grinding using successive abrasive grit paper (400, 600, 800, 1000 and 1500). The final stage of metallographic preparation was polishing with alpha alumina powder having grain sizes from 3 to 0.1 μm. For highlighting microstructural characteristics (grain size and phase characteristics, weld interface imperfections and welding line measuring) polished surfaces were etched by specific metallographic agents (Nital 4%).

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Fig. 2. Welded samples prepared for microstructure analyse

3. EXPERIMENTAL PART

The projection welding process was used to obtain the moulds for baking bread. For this purpose, a set of 8 moulds, with a wall thickness of 0.8 mm, were assembled on 2 parallel rows, being reinforced using a strip having 1.2 mm thickness and 32 mm width. Three protrusions were made on the thinner-walled parts, at relatively equal distances of about 10 mm, to ensure three-point contact with the stiffening strip. (Fig. 3).

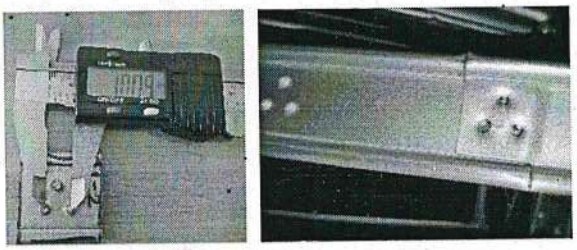

Fig..3. Measurement of spot distance and detail on the projection welded sample

A recommended number was chosen for the welded points simultaneously (three), to obtain a safe contact between the two surfaces of the welded parts. The three main factors of the projection welding regime are studied: the pressing force, the electric power, and the welding time.

The pressing force should be set to only achieve a small deformation at the tip of the protrusion before the current pass through the joint. Then the force can be kept constant throughout the welding period or can be slightly increased in the last part of the process, to provide a forging effect.

For low power values and short welding times, the shear strength of the welds is low. Excessive heating and melting of the material may result in high power values and too long holding time during welding, which may cause the sample wall to be excessively deformed or perforated [1], [20].

The value of the pressing force at the beginning of the process was different for the three types of regimes analysed. If the value of this parameter is too high, the projection flattens rapidly before the welding point is formed. In this way, the contact surface is increased and the current density is reduced, limiting the amount of locally concentrated heat and the formation of a molten core with discontinuous or insufficient section to assure the required shear resistance. To study the effect of the values of the welding parameters, welds were made with different values of them, which are presented in table 1.

Table 1. Projection welding parameters

Sample	Electrode pressure [bar]	Pressure time [ms]	Welding time [ms]	Welding power [kVA]
1.1	2.8	10	7	19.81
1.2	2.6	10	7	19.18
2.2	3.4	10	5	18.10

4. RESULTS AND DISSCUSION

The pieces from this study were fabricated by rolled aluminized steel sheet. Aluminium-coated steel is widely used in the manufacture of baking dies. The thin layer of food grade aluminium improves corrosion resistance and makes it easier to extract products from baking moulds. The optical analyse of the microstructure of the aluminized steel surface indicates alpha aluminium dendritic formations and interdendritic compounds formed between the alloying elements (Fig. 4a).

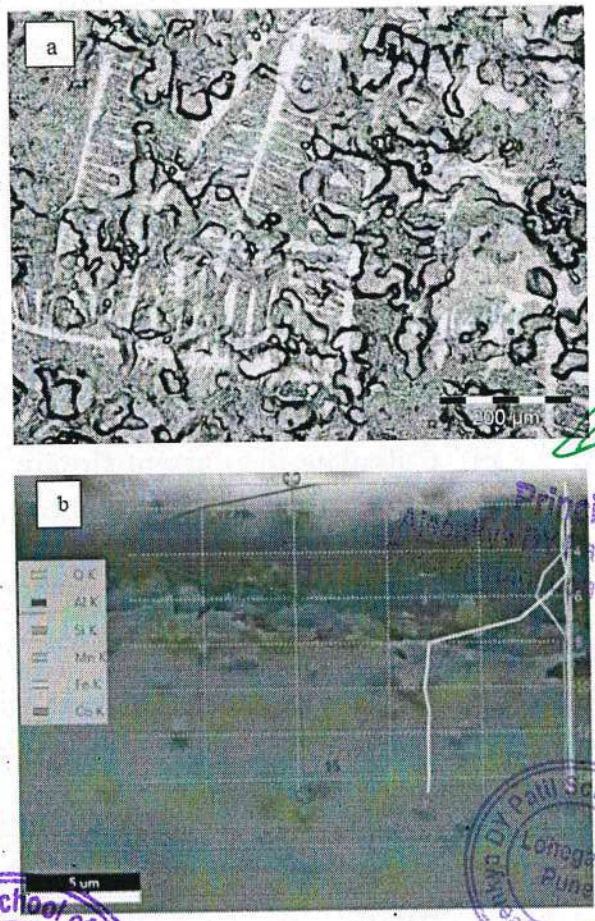

Fig. 4. The microstructure and chemical element analysis of aluminized steel surface

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According to the EDS analyse performed on the aluminized steel sheet surface (Fig. 4b), the chemical composition contains (wt.%): 79.31 Al; 11.96 Si; 2.04 Fe; 0.34 Cr; 0.40 Ca; 5.96 O. Elements such as Ca and O can also come from the working atmosphere in which the samples have been exposed for a period of operation of about 6 months.

The evolution of the concentration of main chemical elements in the vicinity of the aluminized layer (Fig. 4b) shows a lower aluminium concentration at external surface level (due to formation of aluminium oxide and Al-Si compound), then increases in the middle area of the aluminized layer and begins to decrease towards the interface with steel sheet. At the same time, the diffusion of iron in the aluminized layer is observed, with the formation of the hard compound Al-Fe [17], [21] - [22].

In the detailed image of cross section of sample 1.1 (Fig. 5), is visible the aluminized layer that is composed by a thin bonding layer, BL (of about 5 microns thickness) located at the interface between the steel component and the aluminized layer (AL) (of about 20 microns thickness). Along of the bonding layer, chemical composition contains (wt.%): 1.22 Al; 0.94 Si; 96.29 Fe; 1 Co; 0.54Cu.

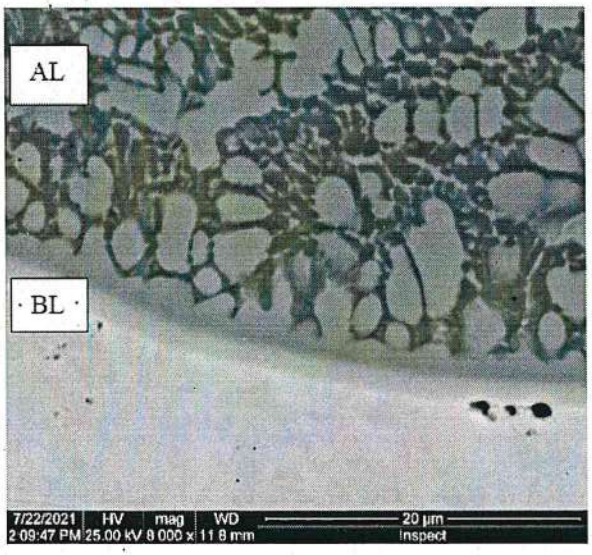
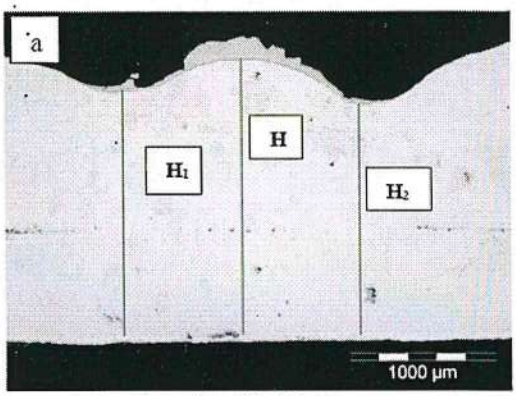


Fig. 5. The microstructure of aluminized layer (sample 1.1)

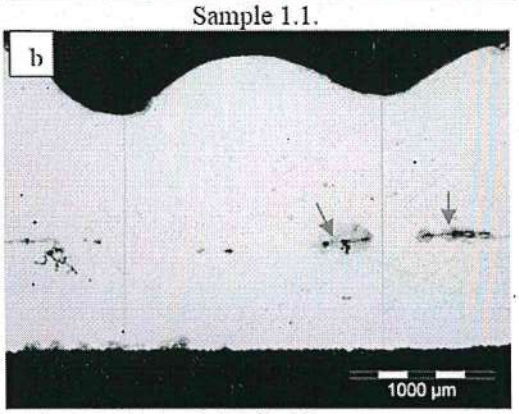
To study the weld geometry, some analyses were performed in cross section through the welded points. The aspects of the cross section for the samples joined using different values of welding regime parameters are shown in Fig 6.

Figure 6a corresponds to sample 1.1. which has the welding interface sprinkled with small discontinuities containing inclusions of Al-Si compounds. The total length of the interface (Table 2) is the largest of all the samples analysed, which also explains the higher value of the shear strength. Above the welded point, a thickening of the aluminium layer of 160 µm is observed.

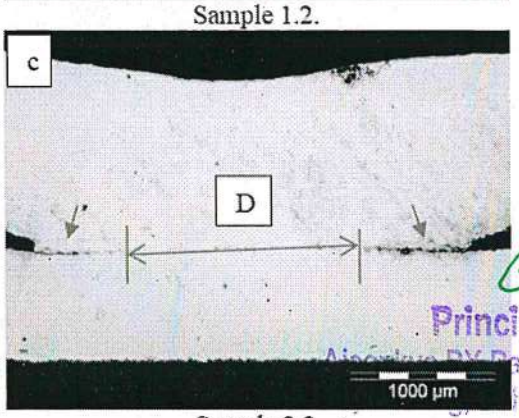
Accumulations of compounds resulted by the detachment of aluminium oxide layer and the accumulation of impurities on the workpiece surfaces during welding have been largely expelled to the side areas of the weld. Small compounds are visible as elongated islands (of 2-10µm length) sprinkled on the molten nugget fusion line. The effective diameter of the welded area consists of annular portions with good adhesion alternating with small, detached areas at both ends of the molten core.



Sample 1.1.



Sample 1.2.



Sample 2.2.

Fig. 6. Cross sections of projection welded samples

Table 2. Weld dimensions in cross-section

Sample	H [mm]	H1 [mm]	H2 [mm]	Weld diameter D [mm]
1.1	1.955	1.783	1.697	3.125
1.2	2.108	1.611	1.757	2.603
2.2	1.923	-	-	1.528

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Best Practice – I

Competency Based Education and Assessment

Name of the faculty: - ..... Prof. Rohit Garad .....

Name of the Subject :- ..... Applied Thermodynamics .....

Department: ..... Mechanical .....

Class: ..SE... Div: ....A.....

Competency Based Learning (Part A and Part B)

It is an active, adaptive, experiential and participatory learning where students' choice and voice are present in order to bring variety and variation in learning.

Note- Part A and B should cover latest developments, advancements, innovations and technologies in the subject domain.

{Select at least Three from each of Part-A & Part-B for every subject and map the outcome of activity}

Part A- Experiential Learning (Learning by Doing) (**Reference**: NAAC Manual Pg. 72)

Is a process of learning through experience and is more specifically defined as "learning through reflection on doing".

The following statements/ questions are related to the subject you teach in this semester

1. Is it possible to develop any prototype or model by the students related to the subject? Yes ✓ No

   If Yes, mention the related UNIT No. ...~~0~~1..... and Prototype Name - .....

2. Do you want to show any product demo to the students related to any topic / UNIT? ✓ Yes No

   If Yes, mention the related UNIT No. 01.. and Name of the Demo - 4 stroke & 2 stroke engine

3. Do you want to assign any mini / major project to the students related to any topic? Yes No

   If Yes, mention the related UNIT No. ..... and the Project Name- .....

4. Are you going to arrange any industrial / Field / Laboratory visit? Yes No

   Name of Industry /Field/Lab visit - .....

5. Do you want to discuss a case studies related to the subject domain? Yes No

   If Yes, mention the UNIT No. ..... and Title of the case study - .....

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6. Do you want to focus on any simulation/gaming based learning in the subject? Yes No

   If Yes, mention the UNIT No. ..... and Name of the Simulation/Game- .....

7. Do you want to assign any mentor from industry /company to the students so that they can understand the subject well? Yes No

   If Yes, Name of the mentor and Industry name – .....

8. Is there any student club at department /college level related to the subject domain? Yes No

   If Yes, Number of students to be enrolled to the club – SAE Club – 10 Students

9. Do you want to conduct any workshop related to the subject domain? Yes No

   If Yes, Name of the workshop- ..... No. of students enrolled –

10. Do you want to invite any expert / guest from an industry related to the subject? Yes No

    If Yes, Name of the expert-..... Name of the Topic – .....

11. Do you want to empower the students to join an ad-on- course related to the subject? Yes No

    If Yes, Name of the Ad-on-courses available - .....No. of students to be enrolled –

12. Do you want to empower the students to join a skill and practical oriented courses related to the subject? Yes No

    If Yes, Name of the course available - .....No. of students to be enrolled –

13. Do you want to show a few videos on advances, latest development and technology in the domain or subject? Yes No

    If Yes, Number of Videos to be shown (maintain the record)-

14. Any course available for the students w.r.t the subject domain at different learning platforms like Udemy, Coursera, Skillshare, MasterClass, Edx, Udacity etc. Yes No

    Name of the courses -

<u>Part –B Participative Learning</u> (Learning by participating) (Reference- NAAC Manual Pg. 75)

Participatory Learning and Action is a family of approaches, methods, attitudes, behaviours and relationships, which enable and empower people to share, analyze and enhance their knowledge of their life and conditions, and to plan, act, monitor, evaluate and reflect.

1. Do you want to ask open ended questions in the domain? Yes No

   UNIT No.- ..... Question 1:- .....

   UNIT No.- ..... Question 2:- .....

   UNIT No.- ..... Question 3:- .....

2. Do you want to conduct group discussion/ Buzz sessions in the subject domain? Yes No

   UNIT No.- ..... Topic - .....

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UNIT No.- ..... Topic - .....

3. Do you want to use a question bowl approach in the discussion? Yes / No
   Topic- ..... Knocking Problem .....
4. Do you want to conduct news analysis with the help of student on any topic? Yes / No
   Unit No. ....04..... Example ..... Electrical .....
5. Do you want to focus on peer learning w.r.t. the subject? Yes / No
   Unit No. ..... Example .....
6. Do you want to use survey methods with the help of student to understand any topic? Yes / No
   Unit No. ..... Example .....
7. Do you want to use Brainstorming session to understand the topic better? Yes / No
   Unit No. ..... Name of the Topic .....
8. Do you want to conduct a small scale research in the subject domain with the help of students? Yes / No
   Unit No. ..... Topic .....
9. Do you take any initiative with the help of the students to collect information related to a topic for better learning? Yes / No
   Unit No. ..... Topic .....
10. Is there any possibility of using a critical incident in the subject domain for better teaching and learning? Yes / No
    Unit No. ..... Incident .....
11. Do you want to use the approach of video viewing and discussion? Yes / No
12. Do you want to use any other participatory approach or method or game in teaching and learning? Yes / No
    Name of the approach /method/game - .....

Sign of Subject Teacher:

Sign of HoD

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Best Practice – II

Bridging the Gap between Education and Employment through Industry Connect

Name of the faculty: - ..... Prof. Rohit Garrad

Name of the Subject: - ..Applied Thermo. ..Class: ..SE.. Div: ..A.....

Sector of the industry Identified: - ..... Automobile

Name of the industry to be connected:- .....

Plan of Action (PoA):- {Select at least five for each subject and map the outcome of activity}

1. Do you want to sign Sign MoU with the industry? Yes / No Tentative date to sign the MoU:- ...../...../2023
2. Are there any hot topics, areas, trends, advances, technologies in the industry sector? Yes / No
   Mention Names- .....
3. Do you want to identify issues, problems and challenges in the industry? Yes / No
   List the issues..... Electrical vehicles .....
4. Do you want to conduct the product survey of the industry with the help of students? Yes / No
5. Do you want to let the students to understand the website of the industry? Yes / No
6. Do you want to arrange a physical visit to the industry? Yes / No
7. Do you want to arrange a virtual visit of the industry? Yes / No
8. Do you want to arrange a guest lecture? Yes / No
   Title of the guest lecture -.....
9. Is it possible to get sponsored project(s) from the industry for the final year students? Yes / No
10. Is it possible to get internship for the SE/TE students from the industry? Yes / No

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11. Do you want to write a conference paper/article on the best practices of the industry by involving students? Yes No

12. Do you want to arrange a hands-on workshop for the subject in collaboration with the industry?
Title of the workshop - ..... Yes No

13. Is there any skill development course available in the market w.r.t the subject? Yes No
Title of the course -

14. Are there any skilling, upskilling, reskilling or multiskilling trainings /workshops available at, NSDC/Skill India/Make in India for the subject? Yes No
Names of the courses –

15. Do you want to motivate the students to participate in National/international employability tests or exams in the subject? Yes No
Name of the tests - .....

Sign of Subject Teacher:

Sign of HoD

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Department of Mechanical Engineering

Sub: Applied Thermodynamics

Best practice-I

Part A - Experiential learning

Sr No 02) Product Demonstration of 4 stroke & 2 stroke engine (Unit no 01)

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Subject Teacher: Rohit Garad

Roll No	Name	Sign
111	Manoj Lokare	Lokare.
155	Varun Deshmukh	
185	Purushottam Kumbhar	Purushottam
201	Kale Mayur shivaji	Kale
226	Kute Priyanka Dinkar	Priyanka
154	Shinde Kunal shivaji	
231	Gopal Ramdas Gurjalkar	
127	Rahul Ram Kandekar	Rahul
172	Sachin S. Zagade	
24	Vaman Dhane	
214	Sandip Patil	Sandip
233	Hemant M. Mandhalkar	
148	pavan v. Badgujar	
212	Avinash B. Pane	
222	Shubham sandip Gurav	
218	Parth J. Gaikwad	
209	Gaikwad Rushikesh sanjay	Gaikwad
3	Siddheshwar Jadhav	
128	Sanket Ashok chavan	
119	Samadhan Vasant Bhalekar	
104	Prathamesh Sanjay Billade	
140	Vishal Amit Singh	
203	Ajit Ashok Pawar	
176	Piyush D. Shedale	
161	Vicky A. Dhede	
158	Pavan d. godase	
124	shivraj P. Mokashi	
181	Shubham Mhaske	

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Roll NO	Name	Sign
224	Vaman Dhane	
208	Iyer Aditya	
111	Manoj Lokare	
155	varun Dandwate	
185	Purushottam Kumbhar	
201	Kale Mayur shivaji	
226	kute Priyanka Dinkar	
154	Shinde kunal shivaji	
31	Gopal R. Gunjalkar	
127	Rahul Ram Kandekar	
172	sachin S. Zagade	
214	Sandip patil	
233	Hemant M. Mandavkar	
148	pavan v. Bedgujar	
212	Avinash B. Rane	
222	shubham sandip Gurav	
218	Pooja J. Gaikwad	
209	Gaikwad Rushikesh Sanjay	
173	Siddeshwar Patange	
128	Sanket Ashok chavan	
119	Samadhan Vasant Bhakare	
104	Prathamesh Sanjay Billade	
140	Vishal Amit Singh	
203	Ajit Ashok Pawar	
176	Piyush D Shedale	
161	Vicky A. Dhade	
158	Pawan L godase	
124	Shivraj P. Mokashi	
131	Shubham mhaske	

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Mechanical Engineering
Lohegaon, Pune

Best practice-I

Part A - Experiential learning

Sr No. 13) Few videos on advances, latest development & technology in subject

Link	Unit/Topic
https://youtu.be/eJTOdJKBc0s?t=2183	Recent development in refrigeration
https://youtu.be/zTeNn2WdT9A?t=58	Smart fridge
https://youtu.be/uGhx1OZM9m0	Recent development - Solution to food waste

Ajeenkya DY Patil School of Engineering Mechanical Engineering Lohegaon, Pune

Subject teacher: Rohit Garad

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Ajeenkya DY Patil School of Engineering Lohegaon, Pune

Roll No.	Name	सही
201	Kale Mayur shivaji	Kale
231	Gopal Ramdas Gunjalkar	GRGunjalkar
226	Kute Priyanka Dilkar	Priyanka
154	Shinde Kunal shivaji	Kshinde
127	Rahul Ram Kandekar	Rahul
172	Sachin S. Zagade	Sachin
185	Purushottam Kumbhar	Purushottam
224	Vaman Dhane	VDhane
214	Sandip Patil	Sandip
233	Hemant Mandavkar	HMandavkar
212	Avinash B. Rane	ABRane
148	pavan v. Badgujar	Pavan
218	Parth J. Gaikwad	PJGaikwad
222	Shubham Sandip Gurav	SSGurav
173	Siddeshwar Patange	SPatange
204	Gaikwad. Rushikesh Sanjay	RSGaikwad
128	Sanket Ashok chavan	SAChavan
119	Samadhan vasant Bhakare	SVBhakare
104	Prathamesh Sanjay Billade	PSBillade
140	Vishal · Amit singh	
176	Piyush D. Shedole	PDShedole
161	Vicky. A. Dhande	VADhande
203	Ajit Ashok Pawar	AAPawar
158	Pawan l. godase	PLGodase
124	Shivraj P. Mokashi	SPMokashi
131	Shubham Mhaske	SMhaske

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Mechanical Engineering
Lohegaon, Pune

Roll No.	Name	Sign
201	Kale Mayur shivaji	Kale
231	Gopal Ramdas Gungekar	
226	kute Priyanka Dinkar	
154	Shinde kunal shivaji	
~~226~~	~~kute Priyanka Dinkar~~	
127	Rahul Ramkandekar	
172	Sachin S. Zagade	
185	Purushottam Kumbhar	
224	Vaman Dhane	
214	Sandip Patil	
233	Hemant Mandavkar	
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148	Pavan v. Badgujar	
218	Parth J. Gaikwad	
222	Shubham Sandip Gurav	
123	Siddeshwar Patange	
204	Gaikwad. Rushikesh. Sanjay	
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119	Samadhan vasant Bhakare	
107	Prathamesh Sanjay Billade	
140	Vishal · Amit singh	
176	Piyush D Shedale	
161	Vicky · A. Dhade.	
203	Ajit Ashok pawar	
158	Pawan d godage	
124	Shivraj P. Mokashi	
131	Shubham mhaske	

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Mechanical Engineering
Lohegaon, Pune

Department of Mechanical Engineering

Sub: Applied Thermodynamics

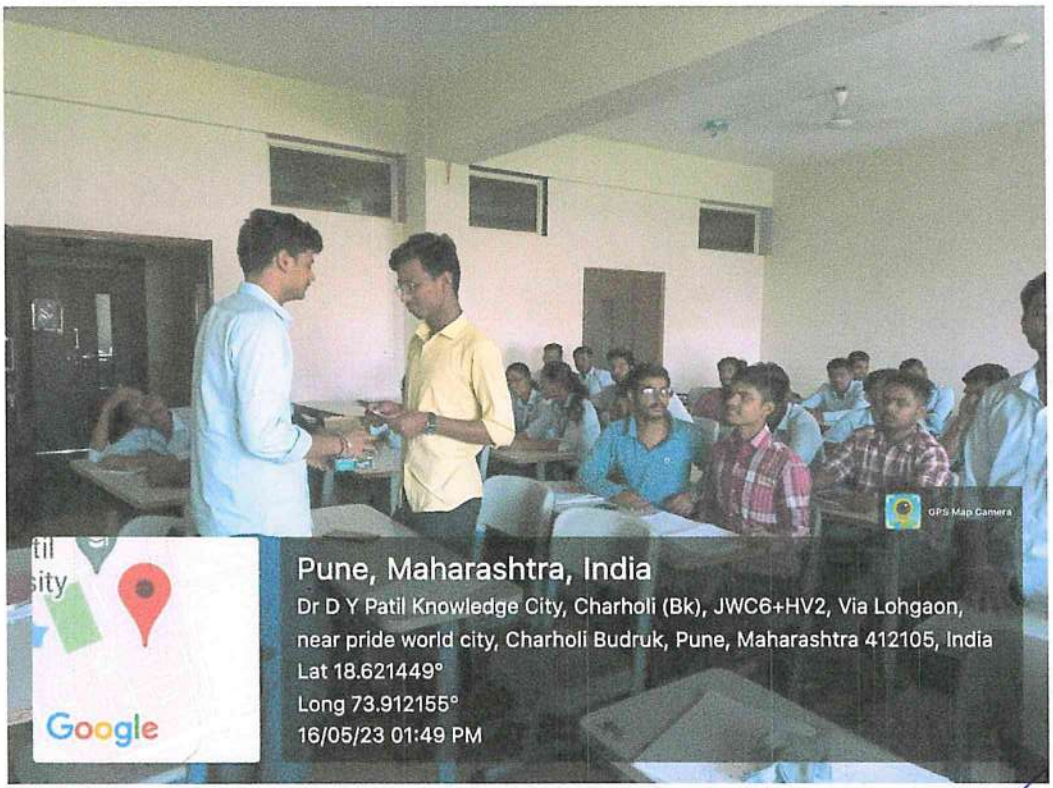
Best practice-I

Part B - Participative learning

Sr No. 03) Question bowl approach in the discussion of topic- Knocking in SI engine & CI Engine

Question :- Knocing increases or decreases for following conditions

1) Inlet temparature
2) Inlet Pressure
3) Compression ratio
4) Self ignition temp.
5) Engine size
6) Power
7) Speed
8) Delay period
9) Flame speed
10) Load on engine



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Ajeenkya DY Patil School of Engineering Lohegaon, Pune

Subject Teacher: Rohit Garad

Roll No.	Name	Sign
153	Onkar Gavhane	
175	Dnyaneshwar Biradar	
106	Sarthak Kulkarni	
170	Sahil Repale	
134	Omkar Bhadale	
193	Rohit Poldar	
132	Dnyaneshwari Suryawanshi	
126	Kangane Shubham B.	
205	Gayake Radhika Uddhav	
155	Varun Dandwate	
174	Powale Harshdip Jaysing	
151	Riddhi C. Khairnar.	
164	Siddhi C. Khairnar.	
125	Abhijeet A. Bhure	
186	Bomble Rohit. T	
140	Sayyed Tanzeem	
192	Yash Bendale	
1.3	Gaikwad Kuldeep N.	
119	Pratik Chawak.	
184	Mayur Kanatkar	
177	Shantanu M. Chaudhari	
182	Jayesh Pardeshi	
216	Manas Panchal	
138	Hogale Yashwant	
135		
230	Gawade Sumeet Rohan Nayak	
104		
166	Prathamesh Billade	
167	Dukare Pandurang s Vikrant Bhosale	

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Ajeenkya DY Patil School of Engineering, Lohegaon, Pune
Mechanical Engineering

Roll.No	Name	Sign
153	onkar Gavhane	
175	Dnyaneshwar Birajdar	
170	Sahil Repale	
106	Sarthak Kulkarni	
134	Omkar Bhodale	
193	Rohit Potdar	
132	Dnyaneshwari Suryawanshi	
205	Gayake Radhika Oddhav	
126	Kayane Shubham B.	
155	Varun Dandwate	
174	Powale Harshdip Jaysing	
151	Riddhi C. Khairnar.	
164	Siddhi C. Khairnar.	
125	Abhijeet A. Bhure	
186	Bomble Rohit. T	
120	Sayyed Tanzeem	
192	Yash Bendale	
103	Gaikwad Kuldeep N.	
119	Pratik Gawade	
184	Mayur Kanaskar	
177	Shantanu H. Chaudhari	
182	Jayesh Pardeshi	
216	Manas Panchal	
138	Hogale yashwant	
135	Gawade Rohan	
164	Abhishek V. Bhagat	
230	Sumeet Wayal	
104	Prathamesh Billade	
166	Dukare pandurang s.	
167	Vikrant Bhosale	

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Department of Mechanical Engineering

Sub: Applied Thermodynamics

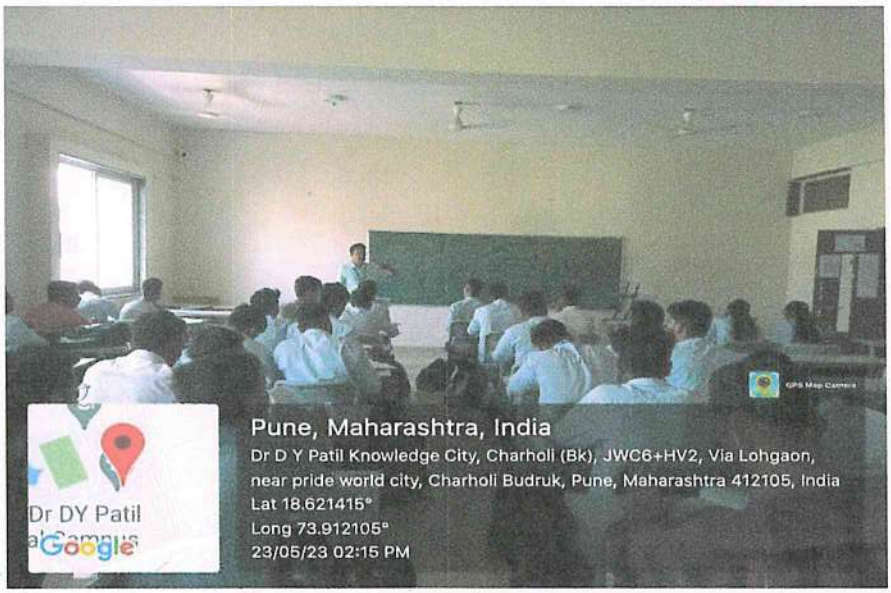
Best practice-II

Bridging gap between Education & Employment through Industry Connect

Sr No. 03) Indentify issues , problems & challenges in the Automobile Industry – Electric Vehicles

Discussion on 10 Biggest Challenges Facing the EV Industry Today

1. Purchase Cost
2. Range Anxiety
3. Limited Selection
4. Difficulty Finding a Technician
5. Charging Infrastructure
6. Charging Speeds
7. Charger Compatibility
8. Grid Capacity
9. Charging Station Financing and Ownership
10. Charging Price Structures



Subject Teacher: Rohit Garad

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Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Roll No.	Name	Sign
153	Onkar R. Gavhane	
106	Sarthak Kulkarni	
175	Dnyaneshwar Biradar	
170	Sahil Repale	
134	Omkar Bhadale	
193	Rohit Potdar	
132	Dnyaneshwari Suryawanshi	
126	Kangune Shubham B.	
2e3	Gavake Radhika Oddhav	
155	Tarun Dandwate	
174	Powale Harshdip	
151	Riddhi Khairnar.	
164	Siddhi C. Khairnar.	
025	Abhijeet A. Bhure	
186	Bomble Rohit	
120	Sayyed Tanzeem	
192	Yash Bendale	
1	Gadade Kunal	
118	Pratik Chavan	
187	Mayur Kanase	
177	Shantanu H. Chaudhari	
182	Jayesh Pardeshi	
216	Manas Panchal	
138	Hogale yashwant	
135	Gavade Rohan	
230	Sumeet Nayak	
104	Prathamesh Billade	
166	Dukare Pandurang s	
167	Vikrant Bhosale	

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Roll No.	Name	Sign
153	omkar Gavhane	
175	Dnyaneshwar Biradar	
170	Sahil Repale	
106	Sarthak Kulkarni	
134	Omkar Bhadale	
193	Rohit Potdar	
132	Dnyaneshwari Suryawanshi	
205	Gayake Radhika Uddhav	
128	Kalyne Shubham B	
15	varun Pandwate	
174	Harshdip Powale.	
151	Riddhi C. khairnar.	
164	Siddhi C. Khairnar.	
125	Abhijeet A. Bhure	
186	Bomble Rohit. T	
120	Sayyed Tanzeem	
192	Yash Bendale	
113	Gadade Kuldeep N.	
118	Pratik Gavade	
184	Mayur Kanaskar	
177	Shantanu H. Chaudhari	
182	Jayesh Pardeshi	
216	Manas Panchal	
138	Mogale yashwant	
135	Gavade Rohan	
230	Sumeet Nayak	
104	Prathamesh Billade	
166	Dukare Pandurang S	
167	Vikram Bhosale	

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Best practice-I

Part B - Participative learning

Sr No. 11) Approach of video viewing & discussion

https://www.youtube.com/watch?v=Bm9fjlYbwhc	Refrigeration
https://youtu.be/h5wQoA15OnQ	Working of ref
https://youtu.be/h5eqbJR4d6Y	psychrometry chart
https://youtu.be/TR27XURyrt0	psychrometry Problems

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Subject teacher: Rohit Garad

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Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Roll No.	Name	Sign
160	patil chinmay . manish	
123	Ajay N Changulpaye	
230	Sumeet Nayak	
133	Suman Kumar Sahu	
105	Ameya Lajewar.	
191	Piyush Adak	
121	Atharva. N. Chaudhari	
217	Priyanka Suryawanshi	
211	Prajakta Rakibe	
215	Aditya R. Kadam	
111	Manoj lokare	
107	Panchal Shrinivas	
150	Shantanu S. Vadekar	
113	Purushottam Lahari	
171	Devraj vankar	
143	Sumeet . B . Malviya	
142	Anil Kumar	
167	Rohit Saykar	
145	Abhijit Shirke	
108	Gaurav Sankpal	
239	Kailash D Patil	
246	Sairaj Karande	
241	Akshay Kadam	
190	Roushan Yadav	
178	Kumar Adityg Singh	
169	Hitesh J. Deshmukh	
189	Aman . J . Singh	
153	Onkar R. Gavhane	

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Mechanical Engineering
Lohegaon, Pune

Roll No:	Name	Sign
160	patil chinmay manish.	
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105	Ameya Lajewar	
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211	Prajakta Rokibe	
217	Priyanka Suryawanshi	
215	Aditya . R. Kadam	
111	Manoj Lokare	
107	Panchal Shrinivas	
120	Shantanu S. Vadekar	
113	Purushottam Lahare	
141	Devraj Vankeri	
143	Sumeet . B. Malviya	
142	Anil Kumar	
157	Rohit Suryke	
145	Abhijit Shirke	
138	Gaurav Sankpal	
239	Kailash D Patil	
246	Sairaj Karande	
241	Akshay Kadam	
190	Ranshem Yadav	
178	Kumar Aditya Singh	
169	Hitesh Deshmukh	
189	Aman - J - Singh	

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Ajeenkya DY Patil School of Engineering
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Lohegaon, Pune

Best practice-I Student club at college level Sr No. 08

SAE India Membership 2022-23/ No of students enrolled to club -50 (SE -10)

S.No.	Membership No	First Name	Last Name	user id	Password
1	7230521267	Prahaush	Sonar	9172733334	9172733334
2	7230521266	Shriya	Watkar	8329001408	8329001408
3	7230521265	Shreya	Sharma	9650093945	9650093945
4	7230521264	Manoj	Lokare	7821044612	7821044612
5	7230521263	Pavan	Godse	8080116358	8080116358
6	7230521262	Kunal	Ukirde	9657475067	9657475067
7	7230521261	Aditi	Mane	9067320083	9067320083
8	7230521260	Pranita	Mahadik	9156381344	9156381344
9	7230521259	Himanshu	Shrivastava	7038713608	7038713608
10	7230521258	Rohit	Mohant	8766042385	8766042385
11	7230521257	Tanuja	Abhang	8805135617	8805135617
12	7230521256	Sakshi	Rajguru	8767273411	8767273411
13	7230521255	Rohit	Potdar	7821093916	7821093916
14	7230521254	Kailas	Gadade	7498078977	7498078977
15	7230521253	Yashvant	Hogale	8605536293	8605536293
16	7230521252	Varun	Dandwale	9011128951	9011128951
17	7230521251	Kaustubh	Gore	8308203763	8308203763
18	7230521250	Krunal	Khandait	7263937006	7263937006
19	7230521249	Vedant	Karpe	7517394241	7517394241
20	7230521248	Lokesh	Badgujar	9370808188	9370808188
21	7230521247	Sarthak	Kulkarni	8605832920	8605832920
22	7230521246	Samadhan	Bhakare	7757810619	7757810619
23	7230521245	Shubham	Patole	8379070812	8379070812
24	7230521244	Shivraj	Mokashi	9146286955	9146286955
25	7230521243	Onkar	Gavhane	9130065449	9130065449
26	7230521242	Sahil	Repale	9022113518	9022113518
27	7230521241	Dnyaneshwar	Biradar	8390293989	8390293989
28	7230521240	Omkar	Bhadale	8080251107	8080251107
29	7230521239	Hrishikesh	Urde	8295310986	8295310986
30	7230521238	Roshan	Sandbhor	9689288061	9689288061
31	7230521237	Ganesh	Bhor	9256561166	9256561166
32	7230521236	Sumit	Shelar	8459495789	8459495789
33	7230521235	Prathamesh	Matgiri	9067200152	9067200152
34	7230521234	Dnyaneshwar	kadam	9421559221	9421559221
35	7230521233	Abhishek	Sawant	9579534414	9579534414
36	7230521232	Arjun	Jadhav	8888990323	8888990323
37	7230521231	Abhishek	Jagtap	7030452479	7030452479
38	7230521230	Tejas	Bhosale	7620647545	7620647545
39	7230521229	Krushna	Solanke	8975181555	8975181555
40	7230521228	Sharon	Mathew	9561449441	9561449441
41	7230521227	Chirag	Shetty	9763663168	9763663168
42	7230521226	Prajwal	Walve	9096561545	9096561545
43	7230521225	Mayur	Khedkar	9766604854	9766604854
44	7230521224	Prithviraj	Mohite	9145299843	9145299843
45	7230521223	Rushiraj	Daware	9561984636	9561984636
46	7230521222	Prasanna	Jagtap	9373058200	9373058200
47	7230521221	Ruturaj	Taware	9028775607	9028775607
48	7230521220	Tushar	Devadiga	7709340953	7709340953
49	7230521219	Joshua	Varghese	9421422075	9421422075
50	7230521218	Shrikrushna	Deshmukh	9158434355	9158434355
Sr No	**Membership No**	**First Name**	**Last Name**	**user id**	**Password**
1	7230510176	DIPAK	SHELKE	8275444464	8275444464
2	7230510174	Vikram Machhindra	Ghule	9096705353	9096705353

Mechanical Engineering

Principal

Best Practice – I

Competency Based Education and Assessment

Name of the faculty: - ....Dr. Shobha Vasant Rapanar

Name of the Subject :- ....Engineering chemistry....

Department: ....Department of Engineering science

Class: ..FE..... Div: ....D....

Competency Based Learning (Part A and Part B)

It is an active, adaptive, experiential and participatory learning where students' choice and voice are present in order to bring variety and variation in learning.

Note- Part A and B should cover latest developments, advancements, innovations and technologies in the subject domain.

{Select at least Three from each of Part-A & Part-B for every subject and map the outcome of activity}

Part A- Experiential Learning (Learning by Doing) (**Reference**: NAAC Manual Pg. 72)

Is a process of learning through experience and is more specifically defined as "learning through reflection on doing".

The following statements/ questions are related to the subject you teach in this semester

1. Is it possible to develop any prototype or model by the students related to the subject? ~~Yes~~ No
   If Yes, mention the related UNIT No. ...1 and 4 and Prototype Name - 1. Water treatment 2. Biodiesel
2. Do you want to show any product demo to the students related to any topic / UNIT? ~~Yes~~ No
   If Yes, mention the related UNIT No. 1.2.3 and Name of the Demo - 1) Synthesis of Bakelite 2) Biodiesel
3. Do you want to assign any mini / major project to the students related to any topic? ~~Yes~~ No
   If Yes, mention the related UNIT No. 1&4 and the Project Name- 1) Water treatment 2) Biodiesel
4. Are you going to arrange any industrial / Field / Laboratory visit? ~~Yes~~ No
   Name of Industry /Field/Lab visit - MCI / SPPU / IISER
5. Do you want to discuss a case studies related to the subject domain? ~~Yes~~ No
   If Yes, mention the UNIT No. ...04..... and Title of the case study - Bhopal gas tragedy

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DY Patil School of Engineering Lohegaon, Pune

6. Do you want to focus on any simulation/gaming based learning in the subject? Yes ~~No~~
   If Yes, mention the UNIT No. ..... and Name of the Simulation/Game- .....
7. Do you want to assign any mentor from industry /company to the students so that they can understand the subject well? Yes ~~No~~
   If Yes, Name of the mentor and Industry name – .....
8. Is there any student club at department /college level related to the subject domain? ~~Yes~~ No
   If Yes, Number of students to be enrolled to the club – science club : 50 students
9. Do you want to conduct any workshop related to the subject domain? ~~Yes~~ No
   If Yes, Name of the workshop- 1. Guideline for End Sem Exam 2. PBL seminar No. of students enrolled – 300
10. Do you want to invite any expert / guest from an industry related to the subject? Yes ~~No~~
    If Yes, Name of the expert-..... Name of the Topic – .....
11. Do you want to empower the students to join an ad-on- course related to the subject? ~~Yes~~ No
    If Yes, Name of the Ad-on-courses available - Environmental Chemistry No. of students to be enrolled – 300
12. Do you want to empower the students to join a skill and practical oriented courses related to the subject? ~~Yes~~ No
    If Yes, Name of the course available - virtual EC Lab No. of students to be enrolled – 300
13. Do you want to show a few videos on advances, latest development and technology in the domain or subject? ~~Yes~~ No
    If Yes, Number of Videos to be shown (maintain the record)- 04
14. Any course available for the students w.r.t the subject domain at different learning platforms like Udemy, Coursera, Skillshare, MasterClass, Edx, Udacity etc. ~~Yes~~ No
    Name of the courses - NPTEL (All EC courses are available)

<u>Part –B Participative Learning</u> (Learning by participating) (Reference- NAAC Manual Pg. 75)

Participatory Learning and Action is a family of approaches, methods, attitudes, behaviours and relationships, which enable and empower people to share, analyze and enhance their knowledge of their life and conditions, and to plan, act, monitor, evaluate and reflect.

1. Do you want to ask open ended questions in the domain? ~~Yes~~ No
   UNIT No.- 4 Question 1:- How to create/Identify alternative fuse for fossile fuel
   UNIT No.- 4 Question 2:- Power Petrol
   UNIT No.- 6 Question 3:- Electroplating, Powder coating.
2. Do you want to conduct group discussion/ Buzz sessions in the subject domain? ~~Yes~~ No
   UNIT No.- 1 Topic - Water water treatments

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UNIT No.- 3.. Topic - Nano materials : synthesis and applications

3. Do you want to use a question bowl approach in the discussion? ~~Yes~~ / No
   Topic- nanomaterials
4. Do you want to conduct news analysis with the help of student on any topic? ~~Yes~~ / No
   Unit No. — Example Nobel prize in chemistry
5. Do you want to focus on peer learning w.r.t. the subject? Yes / ~~No~~
   Unit No. — Example —
6. Do you want to use survey methods with the help of student to understand any topic? ~~Yes~~ / No
   Unit No. 4.01 Example Hardness of water in diff. areas
7. Do you want to use Brainstorming session to understand the topic better? ~~Yes~~ / No
   Unit No. 0.6 Name of the Topic corrosion
8. Do you want to conduct a small scale research in the subject domain with the help of students? ~~Yes~~ / No
   Unit No. 1 Topic Waste water treatement
9. Do you take any initiative with the help of the students to collect information related to a topic for better learning? ~~Yes~~ / No
   Unit No. 2 Topic Instrumental methods of analysis
10. Is there any possibility of using a critical incident in the subject domain for better teaching and learning? Yes / ~~No~~
    Unit No. — Incident —
11. Do you want to use the approach of video viewing and discussion? ~~Yes~~ / No

12. Do you want to use any other participatory approach or method or game in teaching and learning? ~~Yes~~ / No
    Name of the approach /method/game - 'Quiz competitions'

Sign of Subject Teacher:

Sign of HoD

6/4/2023

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Engineering, Lohegaon, Pune

Best Practice – II

Bridging the Gap between Education and Employment through Industry Connect

Name of the faculty: - ....Dr. Shobha Vasant Rupanar

Name of the Subject: - Engineering chemistry ....Class: FE..... Div: ...D....

Sector of the industry Identified: - .....

Name of the industry to be connected:- .....

Plan of Action (PoA):- {Select at least five for each subject and map the outcome of activity}

1. Do you want to sign Sign MoU with the industry? [Yes] [No] Tentative date to sign the MoU:- ../../2023
2. Are there any hot topics, areas, trends, advances, technologies in the industry sector? [Yes] [No] Mention Names- ,.....
3. Do you want to identify issues, problems and challenges in the industry? [Yes] [No] List the issues....Waste water treat disposal/Treatement & chemical waste treatm
4. Do you want to conduct the product survey of the industry with the help of students? [Yes] [No]
5. Do you want to let the students to understand the website of the industry? [Yes] [No]
6. Do you want to arrange a physical visit to the industry? [Yes] [No]
7. Do you want to arrange a virtual visit of the industry? [Yes] [No]
8. Do you want to arrange a guest lecture? [Yes] [No] Title of the guest lecture -.....nanomaterials and nanosciences
9. Is it possible to get sponsored project(s) from the industry for the final year students? [Yes] [No]
10. Is it possible to get internship for the SE/TE students from the industry? [Yes] [No]

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11. Do you want to write a conference paper/article on the best practices of the industry by involving students? Yes / No

12. Do you want to arrange a hands-on workshop for the subject in collaboration with the industry?
Title of the workshop - ..... Hands on workshop on spectrophotometer ..... Yes / No

13. Is there any skill development course available in the market w.r.t the subject? Yes / No
Title of the course - NPTEL

14. Are there any skilling, upskilling, reskilling or multiskilling trainings /workshops available at, NSDC/Skill India/Make in India for the subject? Yes / No
Names of the courses – —

15. Do you want to motivate the students to participate in National/international employability tests or exams in the subject? Yes / No
Name of the tests - ..... GATE, GRE, MPSC, UPSC

Sign of Subject Teacher:

Sign of HoD
6/4/2023

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Event Report

Academic Year: 2022-23 **Semester-II**

Name of the Event: Engineering Chemistry Laboratory : Induction Report

Date and Time	04/04/2023, 10:00 am to 11:00 am
Event Venue	Offline
Organized by	Dr. Shobha Rupanar
Targeted Audience	First Year Engineering Students
Resource Person	Dr. Shobha Rupanar

Event Contents:

1. Introduction of Departmental Vision & Mission.
2. Introduction Engineering Chemistry Laboratory with preparation room
3. Introduction of syllabus as per SPPU.
4. Information about Instruments & Equipment avaliable in The EC lab.
5. Cost and utilization of laboratory.
6. Information about PPE Kit& First Aid Box.
7. Do and Dont Chart, Technical methods
8. Safety and Emergency Procedures

Details of the event:

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The Engineering chemistry Laboratory Induction Programme was conducted for First year newly admitted students via offline mode. The students of different branches are involved a such as Electronics and Telecommunication Engineering (E&TC), Computer Engineering (COMP), Mechanical Engineering (MECH), Civil Engineering (CIVIL), Artificial Intelligence and Data Science (AI&DS). The induction program was designed to take through the fresh students over a familiar introduction & typical life at the laboratory and classes of department.

Laboratory Assistant Ms. Jayashree Patil showed the equipment and instruments avaliable in Chemistry Laboratory. Engineering Chemistry Laboratory Incharge, Dr. Shobha Rupanar briefly explained SPPU syllabus, List of experiment, Utilization of Lab for Practical's and Research, use of PPE Kit and First Aid Box to First year students. She has also explained the safety and emergency procedures followed during the practicals.

During the session the students were explained in detail on the various infrastructures of laboratories, Engineering Chemistry Library, handling of instrument etc .

Outcomes:

Laboratory Induction Programme facilitates interaction between teachers and students before the commencement of the regular classes and practical's. This interaction & planning will be helpful in effective delivery of lectures and tutorial/practical.

Students are guided for the preparation of a laboratory plan for semester II and implementation of the same.

Geotagged Photos:

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Name and Sign of Coordinator: Dr. Shobha Rupanar

Departmental Event Coordinator: Dr. Shobha Rupanar

HoD: Dr. S. M. Khairnar

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Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105.
Department of Engineering Sciences

Form No. IQAC/28
Date: 08/06/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: Best Practices Engineering Chemistry Laboratory Induction

Sr. No.	Name of the Participant	Signature
1	Aditi Shelar	
2	Snehal Bhosale	
3	Janhavi Anil Dhatre	
4	Saee V Survse	
5	Sonali N. Patil.	
6	Samruddhi K. Londhe	
7	Vivek Shelke	
8	Nikhil Malvi	
9	Ayush Hande	
10	Suraj Raykar	
11	Piyush Kopte	
12	Krushna Umesh Pande	
13	Rane Shubham Sharad	
14	Pratik Sangale	
15	Arshul Ansari	

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42	Prafull Madhav Satle	
43	Suyash Arjun Jodhav	
44	Soham Anil Tandale	
45	SYED JAWAD ABBAS ZAIDI	
46	Harshal Dipak Sonawane	
47	Pradip Mhalu Khandekar	
48	Aniruddha Aghav	
49	Vivek Sanjay Dalve	
50	Rohit Bapu Patil	
51	Samruddhi Ashish Dhanwate	
52	Omkar Dattatraya Khandve	
53	Dakshil Sandip Dhande	
54	Shreya Vijay Nalge	
55	Abhinav Patangrao Dupte	
56	Krunal Dorkar	
57	Suraj koshid	
58	Ajit Ghayal	
59	Shubham Ashok Adak	
60	Rushikesh Ashok Bandgar.	
61	Dee Mahatme	

Sign of Coordinator: Dr. Shobha Rupanar

Departmental Event Coordinator: Dr. Shobha Rupanar

Dr. Shobha Rupanar HoD: Dr. S. M. Khairnar

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Ec-PBL (3)

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Date: 04/05/2023

Event Notice

Academic Year: 2022-23 **Semester-II**

Name of the event: One day Seminar on "Bridging of Industry –Academia gap"

Mode of Conduction: Offline

Date of the event :

Sr. No.	Date & Day	Time	Speaker
1	**04/05/2023, Thursday**	3:00 PM to 5:00 PM	Mr. Kulkarni, Mr. Bhure Mr. Anand, Mr. Imran, Ms. Nitu Prayas Engineering Skills

Dr. Shobha Rupanar
Event Coordinator

Dr. S. M. Khairnar
Head of Department

Dr. F. B. Sayyad
Principal

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Ajeenkya DY Patil School of Engineering, Engineering Sciences, Lohegaon, Pune

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Date: 04/05/2023

Event Permission with Budget

Academic Year: 2022-23 **Semester-II**

To

Principal,

DYPSOE, Pune

Subject: Request for permission to organize seminar on "Bridging of Industry-Academia Gap"

Through: FE-HOD

Respected Sir,

Department of Engineering Sciences (FE) is organizing one day seminar on "Bridging of Industry-Academia Gap" on 04/05/2023.

Budget of the event:

Speaker	**Remuneration**	**Total**
Mr. Kulkarni, Mr. Bhure Mr. Anand, Mr. Imran, Ms. Nitu Prayas Engineering Skills	**NA**	**NA**

May I request you to give the permission to organize this event and sanction the said budget.

Thanking You,

Yours Faithfully,

Event Coordinator: Dr. Shobha Rupanar

HOD: Dr. S. M. Khairnar

Principal: Dr. F.B. Sayyad

Principal
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AJEENKYA DY Patil School of Engineering	"Empowerment through quality technical education" **AJEENKYA D Y PATIL SCHOOL OF ENGINEERING** Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105. Department of Engineering Sciences Form No. IQAC/25 Date: 04/05/2023

Event Organizing Committee

Academic Year: 2022-23 **Semester-II**

The one day Seminar on "Bridging of Industry-Academia Gap" is scheduled on 04/05/2023. For smooth functioning of the program, the committee formed is listed below with their responsibilities. All are instructed to cooperate for making the event successful.

Sr. No.	Name of the staff	Responsibility	Name of the Committee	Signature
1	Dr. Pragati Devare	Anchoring	Preparation of Anchoring draft	
2	Dr. Shobha Rupanar	Event Report	Vote of thanks & Preparation of Event report of entire event	
3	Mr. Nikesh Patole	Technical Support	Publicity	

Dr. Shobha Rupanar
Event coordinator

Dr. S. M. Khairnar
Head of The Department

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Date: 04/05/2023

Event Schedule

Academic Year: 2022-23

Semester-II

Name of the event: Seminar on "Bridging of Industry-Academia Gap"

Sr. No.	Day and Date	Time	Details
1	Thursday 04/05/2023	3:00 pm to 3:05 pm	Welcome address & Introduction
		3:05 pm to 3:45pm	Speech by Invited Guest, Mr. Kulkarni
		3:45 pm to 4:30 pm	Speech by Invited Guest, Mr. Bhure
		4:30 pm to 5:30 pm	Speech by Invited Guest, Mr. Anand

Dr. Shobha Rupanar
Event Coordinator

Dr. S. M. Khairnar
Head of Department

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Event Report

Academic Year: 2022-23 **Semester-II**

Name of the Event: One day seminar on "Bridging of Industry-Academia Gap".

Date and Time	04/05/2023, 3:00 pm to 5:00 pm
Event Venue	Offline
Organized by	Dr. Shobha Rupanar
Targeted Audience	FE students
Resource Person	Mr. Kulkarni, Mr. Bhure, Mr. Anand, Mr. Imran,Ms. Nitu Prayas Engineering Skills

Event Contents:

Objectives:

1. To provide exposure to the students about latest technological advancements in each course.
2. To expose students to the requirements of industry in different domains.

Session I: Six essential skills for successful career in Manufacturing.

1. Ability to work under pressure
2. Problem solving skill
3. Communication skill
4. Good leadership skill
5. Attention to detail
6. Critical thinking
7. Approach towards higher studies and competitive exams

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Session II: Power electronics and embedded system

1. Digital signal Controller & Their applications in power electronics
2. Motor controllers
3. Embedded systems

Details of the event:

Department of Engineering Sciences (FE) has organized One day Seminar on "Industry-Academia Gap". Guest Speaker invited for conduction of event are Mr. Kulkarni, Mr. Bhure, Mr. Anand, Mr. Imran & Ms. Nitu, Prayas Engineering Skills. The session was started at 3:00 pm with the welcome address by Dr. Pragati Deore.

Invited guest Mr. Kulkarni discussed in detail about the topics of essential parameters for excellent Carrer in manufacturing, work environment & ability to bear the work pressure, Discipline, Communication skill, Critical thinking, Thought process & Technical skill. He explained How to be relevant in the field? He delivered an interactive session for the students present. He spoke about competitive exams for further studies in India after engineering like CAT, GATE, UPSC Exams. He also enlightened us about the important life skills one should have as well as the necessary things required to be a successful and a happy person in life. He gave an informative session highlighting the importance of using technology in an eco-friendly manner and promoting sustainable development.

Session II was started at 4:05 pm. Invited guest for this session was Mr. Bhure. He elaborates the embedded system and software programming with applications. The Seminar was concluded at 5.30 pm by a vote of thanks.

The Seminar was highly informative to FE students Thus seminar provided valuable awareness and insights on the various aspects of different ways of filling gap between Industry and academia.

Social media link:

https://www.facebook.com/adypsoelohegaon?__cft__[0]=AZXgRBm81MeUQvEE-2ErsmOvl2sY0T8No0wPJYcThyu9iHVn4ih1TlAokwcnccn8dAAEvHWfKtQueqDF-PhlZLVGs9-uWrmcGWEaXk15FRJejbxcNLn3gGiMs_O87Ehe3jbBLs5W0VGbwJxwzdJe-bD8toTOIHN5mblqIiG7mrje1DH8c200CnxTaqAzXEwK6Dk&__tn__=-UC%2CP-

Engineering Sciences

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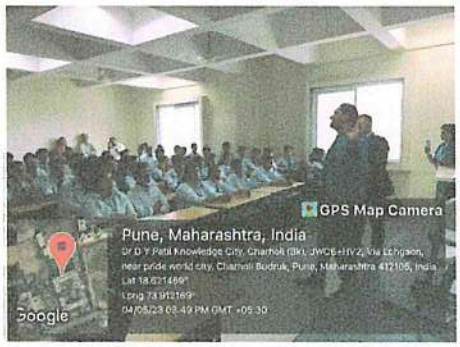
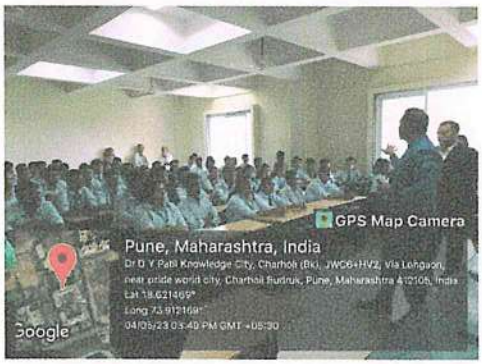
Geotagged Photos:





Name and Sign of Coordinator: Dr. Shobha Rupanar

Departmental Event Coordinator: Dr. Shobha Rupanar

HoD: Dr. S. M. Khairnar

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Date: 04/05/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event:

Sr. No.	Name of the Participant	Department	Signature
1	Saee V Surve	AIDS	Saee.
2	Janhavi. Anil. Dhatre.	Comp	
3	Komal Manoj. Gupta	AIDS	komal
4	SYED JAWAD ABBAS ZAIDI	Comp	
5	SOHAM JADHAV	AIDS	
6	Harshal D- Sonawane	Comp	
7	Soham A. Tandale	AIDS	
8	Pratik Sangale	AI & DS	Sangale.
9	Krushna Pande	comp	Pande.
10	Suraj koshid	Automobile	
11	Ajit Chavan	AI & DS	
12	Rushikesh Bhangale	CoS	
13	Suyash A. Jadhav	Computer	Suyash.
14	Pradip. M. Khandekar	Competer	
15	Umesh K. Kardile	computer	
16	Gopal P. Payghan	Computer	

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Sr. No.	Name of the Participant	Department	Signature
17	Dashrath Suresh Bogati	Computer Engineering	
18	Pratik Prakash Pawar	Computer Engin...	
19	Mayur Subhash Rajgude	Computer Engg.	M.S.Rajgude
20	Ranjay R. Gupta	E & TC	
21	Sarvesh R Jadhao	Mechanical Engg	
22	Jadhav Diksha	E & TC	
23	Srushti S. Kodag	AI & DS	
24	Harshita R. Halidoddi	E & TC	
25	Siddhi S. Bhosale	Mechanical	
26	Chinmay D. Kulkarni	AI & DS.	
27	Sahil R. Amrale	AI & DS	
28	Pranav Vats	Computer Engg.	
29	Pranav Ramesh Yadav	computer.engg.	
30	ATHARVA V. MOHITE	AI & DS	
31	Akshint Varma	AI & DS	
32	Diya Manoj	AI & DS	
33	Vismay Lohakare.	Mech.	
34	Shaikh Aanam	Computer	
35	Shruti Dalvi	Computer	
36	Sakshi Pawar	AI and DS	
37	Shreya Borate	AI and DS	
38	Jay Mahakale.	E & TC	J.S.M.
39	Lutfaan Boat.	Mechanical.	

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Sr. No.	Name of the Participant	Department	Signature
40	Shivam . V. Shinde	ENTC	Shinde
41	Ashutosh Rode	A.I.D.S	
42	Sonali Narayan Patil.	Computer	Patil.
43	Suraj Bapu Raykar	Computer engg	Suraj
44	Ayush Sanjay Harde	Computer engg.	Harde
45	Shubharsh Gupta	AI&DS	
46	Tushar Zalte	Comp. Eng.	
47	Diksha Borhade	ENTC	
48	Siddhi Ghogare	ENTC	@ghogare
49	Dhruv Kumar	AI&DS	
50	Anushka N. Kalwade	E&TC	Kalwade.
51	Pruthviraj. S. Chavan	E&TC	Chavan.
52	Farhan Shikalgar	CE	Farhan.
53	Shivam Pandit	CE	Shivam Pandit
54	Rohan Pise	AIDS	Pise
55	Aditya Kale	AIDS	
56	Nikhil Gaikwad	E&TC	
57			
58			
59			
60			

Name and Sign of Coordinator:

Departmental Event Coordinator:

HoD:

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Date: 04/05/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event:

Sr. No.	Name of the Participant	Department	Signature
1	Azad Argade	AIDS FE	Azad.
2	Shreyas Shinde	AIDS FE	
3	Siddharth Kharche	C.S	
4	Himanshu S. Kapure	C.S	
5	Bhandarkote Amol B.	ENTC	
6	Aanchal Naik	Mech FE	
7	Revati Kute	ENTC FE	
8	Loukik Kawde	Computer F.E	
9	Khureshi Nadimoddin	computer F.E	
10	Piyush P. Kopte	Computer F.E	
11	Rushikesh Ashok Bandgar.	Mechanical F.E.	
12	Rushikesh Santosh Raut	E&TC	
13	Tanmay Dhumal	E&TC	
14	Sumit A. Pokharkar	Computer Engineer	
15	Sahil Wadaskar	Computer Science	
16	Pankaj patange	computer Science	

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Sr. No.	Name of the Participant	Department	Signature
17	Vedant Gawali	comp. science	Vedly
18	Durgesh. R. Ghodke	AIDS FE	
19	Shubham Ashok Adak	Comp. Engg.	S.A.Adak
20	Naik Kunal	E&TC	
21	Karan Lande	AIDS	landekm.
22	Shivam Gavali	AIDS	
23	Yashwant Ghorband	AIDS	
24	Pawan Agarwal	COMP	P.Agarwal
25	Subodh Bawaskar	E&TC	
26	Rath Mahalle	E&TC	
27	Rohit Ghule	E&TC	
28	Tejas Patil	E&TC	
29	Omkar Biradar	AI-DS	
30	Omkar shinde	Mechi - FF	
31	Vivek Sanjay Dalve	AI & DS	
32	Aryan Chavan	Computer	Aryan
33	Aniruddha Aghav	Computer	
34	Dev Rahul Mahatme	ENTC	Mahatme
35	Rajat Suresh Pethe	ENTC	
36	Aryan Chavan	CE (CS)	Aryan
37	Vineet B.	ENTC	
38	Prathamesh Date	AI and DS	
39	Rohit Patil	AI and DS	

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Sr. No.	Name of the Participant	Department	Signature
40	Anushka N. Kawade.	E & TC.	A.Kawade.
41	Prathviraj. S. Chavan	E & Tc	
42	DHRUV KUMAR	AI & DS	
43	Rohit .D. Awatade	AI - DS	
44	Yash Patil	AI-DS	
45	Ameen. Salik	E & TC	
46	Bhavesh. R. Pund	E & TC	
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Name and Sign of Coordinator:

Departmental Event Coordinator:

HoD:

Ajeenkya DY Patil School of Engineering Pune Lohegaon

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g, Lohegaon, Pune

EC-PBL (5)

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Event Report

Academic Year: 2022-23 **Semester-II**

Name of the Event: Brain Storming Session

Date and Time	08/06/2023, 3:00 pm to 5:00 pm
Event Venue	Offline
Organized by	Dr. Shobha Rupanar
Targeted Audience	FE students
Resource Person	Dr. Shobha Rupanar

Event Contents:

1. **Brain storming session**
2. **Group activity**
3. **Outcomes**

Activity Contents:

Department of Chemistry of Engineering Sciences (FE) has organized brain storming session on fuels and combustion for the first year students in the subject of chemistry.

The objective of the session was to foster creativity and generate innovative ideas to address pressing fuel technology challenges and explore potential solutions through the lens of technology. The session aimed to empower students to become future problem-solvers and contribute to sustainable water management practices.

Group Discussions was organized for the session.

Participants were divided into smaller groups to further develop their ideas. Each group focused on a specific aspect of fuel technology, such as toxic emissions after combustion, properties of good fuel, analysis and experiments methods of analysis. Group members collaborated, shared insights, and refined their ideas, taking into consideration the feasibility, scalability, and potential impact of their proposed solutions.

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Idea Presentations:

Each group had the opportunity to present their developed ideas to the wider audience. Visual aids, prototypes, or concept illustrations were encouraged to enhance the clarity and understanding of the proposals. The presentations sparked fruitful discussions and cross-pollination of ideas among participants, fostering a spirit of collaboration and learning.

Outcomes:

The brainstorming session resulted in numerous innovative and impactful ideas related to Fuel technology

Geotagged Photos:

Sign of Coordinator: Dr. Shobha Rupanar

Departmental Event Coordinator: Dr. Shobha Rupanar

Dr. Shobha Rupanar HoD: Dr. S. M. Khairnar

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Date: 08/06/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: Brain Storming session

Sr. No.	Name of the Participant	Signature
1	Ayush Hande	
2	Suraj Raykar	
3	Pradip Khandekar	
4	Prafull Madhav Satle	
5	NIKHIL MALVI	
6	Anirudha Aghav	
7	Harshal D. Sonawane	
8	Vivek Sanjay Dalve	
9	Hrutvik Tanpure	
10	Piyush P. Kopte	
11	Rohit B. Patil	
12	Hrishikesh R. Sharma	
13	Aayush Pawar	
14	Tanmay Karhade	
15	Kranal Dorkar	

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17	Krushna Umesh Pande	Pande.
18	Pratik Sangale	Sangale
19	Suraj Rashid	SR
20	Ajit Ghayal	Ghayal.
21	Shubham Ashok Adak	S.A.Adak
22	Rushikesh Ashok Bandgar.	Bandgar.
23	Soham Anil Tandale	Soham
24	Suyash Arjun Jadhav	Suyash.
25	Vineet Ashok Bhandari	Bhandari
26	SYED JAWAD ABBAS ZAIDI	awad
27	Devi Mahatme	Mahatme
28	Rajat Suresh Pethe	Pethe...
29	Siddhi Sampat Kadam	S.S.Kadam
30	Akshada Shivram Solase	Solase
31	Aditi Shelar	Aditi
32	Patil Sakshi	Patil
33	Komal. Manoj. Gupta	Komal
34	Saee. V. Surve	Saee.
35	Janhavi. Anil. Dhatce	Janhavi
36	Sanskruti Nitin Salunkhe	Sanskruti
37	Vaibhav Suresh Puri	Puri.
38	Anshul Sachin Tiwari	Tiwari
39	Vivek. Shelke	Shelke..
40	Samruddhi Londhe	Samruddhi
41	Shreya Nalge	Shreya
42	Samruddhi Dhanwate	Samruddhi.

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

42	DAKShil Sandip Dhande	
43	Omkar Dattatray Khandve	
44	Rane Shubham Shaead	
45	Sanika Sunil Sutar	
46	Sarode Rutuja sudhakar	
47	Shrsale Snehal Ashok.	
48	Gavhane Snehal Raghunath.	
49	Jadhav Diksha Vijay.	
50	Patil Sonali Narayan	
51	Jamadar Smital M.	
52	Thombe Aditi Rajendra	
53	Prathamesh Sanjay Date	
54	Parth Ganesh rao Mahalle	
55	Subodh Bawaskar	
56	Abhinav Patangrao Dupte	
57		
58		
59		
60		
61		

Sign of Coordinator: Dr. Shobha Rupanar

Departmental Event Coordinator: Dr. Shobha Rupanar

Dr. Shobha Rupanar HoD: Dr. S. M. Khairnar

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering Sciences, Lohegaon, Pune

EC_PBL (6)

AJEENKYA DY Patil School of Engineering	"Empowerment through quality technical education" **AJEENKYA D Y PATIL SCHOOL OF ENGINEERING** Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105. Department of Engineering Sciences Form No. IQAC/25

Date: 12/06/2023

Event Notice

Academic Year: 2022-23 **Semester-II**

Name of the event: An online quiz on "Fundamentals of Engineering Chemistry"

Mode of Conduction: Online

Date of the event : Department of Engineering Sciences is organizing an online quiz on "Fundamentals of Engineering Chemistry" on 12th June, 2023 via online mode at Ajeenkya D.Y. Patil school of Engineering, Pune.

Sr. No.	Date & Day	Time	Mode
1	**12/06/2023, Monday**	10:00pm to 2:00 pm	Online mode on MS team Platform

Dr. Shobha Rupanar — **Event Coordinator**

Dr. S. M. Khairnar — **Head of Department**

Dr. F. B. Sayyad — **Principal**

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering Sciences, Lohegaon, Pune

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

AJEENKYA DY Patil School of Engineering	"Empowerment through quality technical education" **AJEENKYA D Y PATIL SCHOOL OF ENGINEERING** Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105. Department of Engineering Sciences Form No. IQAC/25

Date: 12/06/2023

Event Organizing Committee

Academic Year: 2022-23 **Semester-II**

Department of Engineering Sciences, is organizing an online quiz on "Fundamentals of Engineering Chemistry" on 12th June, 2023 via online mode at Ajeenkya D.Y. Patil school of Engineering, Pune. For smooth functioning of the program, the committee formed is listed below with their responsibilities. All are instructed to cooperate for making the event successful.

Sr. No.	Name of the staff	Responsibility	Signature
1	Dr. Shobha Rupanar	1. Circulation of Event notice, creation of G-Form Link to students 2. Preparation of Event report of entire event 3. Photography	

Dr. Shobha Rupanar
Event coordinator

Dr. S. M. Khairnar
Head of The Department

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering, Engineering Sciences, Lohegaon, Pune

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

AJEENKYA DY Patil School of Engineering	"Empowerment through quality technical education" **AJEENKYA D Y PATIL SCHOO OF ENGINEERING** Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105. Department of Engineering Sciences Form No. IQAC/25 Date: 12/06/2023

Event Schedule

Academic Year: 2022-23

Semester-II

Name of the event: An online quiz on "Fundamentals of Engineering Chemistry"

Sr. No.	Day and Date	Time	Mode
1	Monday, 12/06/2023	10:00 am to 2:00pm	MS Team , Online

Dr. Shobha Rupanar
Event Coordinator

Dr. S. M. Khairnar
Head of Department

Ajeenkya DY Patil School of Engineering Engineering Sciences Lohegaon, Pune

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering Lohegaon, Pune

AJEENKYA DY Patil School of Engineering	"Empowerment through quality technical education" **AJEENKYA D Y PATIL SCHOOL OF ENGINEERING** Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105. Department of Engineering Sciences Form No. IQAC/25

Date: 12/06/2023

Event Permission with Budget

Academic Year: 2022-23 **Semester-II**

To

Principal,

DYPSOE, Pune

Subject: Request for permission to organize online quiz on "Fundamentals of Engineering Chemistry"

Through: FE-HOD

Respected Sir,

Department of Engineering Sciences, is organizing an online quiz on "Fundamentals of Engineering Chemistry" via online mode at Ajeenkya D.Y. Patil school of Engineering, Pune.

Budget of the event:

Sr. No.	Date & Day	Time	Remuneration
1	**12/06/2023, Monday**	10:00pm to 2:00 pm	NA

May I request you to give the permission to organize this event and sanction the said budget.

Thanking You,

Yours Faithfully,

Event Coordinator: Dr. Shobha Rupanar

HOD: Dr. S. M. Khairnar

Principal: Dr. F.B. Sayyad

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering Engineering Sciences Lohegaon, Pune

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Event Report

Academic Year: 2022-23 **Semester-I**

Name of the Event: An online Quiz on "Fundamentals of Engineering Chemistry" on 12th June, 2023 via online mode at Ajeenkya D.Y. Patil school of Engineering, Pune.

Date and Time	12/06/2023, 10:00 pm to 1:00 pm
Event Venue	Online
Organized by	Dr. Shobha Rupanar
Targeted Audience	FE students
Platform	MS Team -Online

Objectives:

It tests general knowledge on common terms and concepts of Chemistry which is related to Engineering chemistry SPPU syllabus content. Keeping in view of this, we have added some most frequently asked questions on fundamentals in MCQ format. All questions are selected in a manner so that it becomes easy to understand the topics of Engineering Chemistry.

Details of the event:

Department of Engineering Sciences (FE) has organized an online quiz on the topic 'Fundamentals of Engineering Chemistry" The quiz is conducted via online mode on MS-Team Platform. The event notice, Schedule and G-Form link of quiz is circulated to students prior two days of the event. The quiz G-Form link is activated at 10:00 am on 12/06/2023 and deactivated at 1:00 pm. Total 65 students were participated in the quiz. The feedback and event attendance is recorded through online mode. E-certificates are distributed to students whose score is higher than 80.00 %.

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Outcomes:

Question 1 & 2: Hardness of water and Techniques involved in softening of water as commodity

Question 3 & 4: Appropriate electro-technique and methods of PH analysis.

Question 5 & 6: Basics of Polymers

Question 7 & 8: Types of Fuels

Question 9 & 10: Awareness of spectroscopy method

Question 11 & 12: Factors of Corrosion

Geotagged Photos:

Name and Sign of Coordinator: Dr. Shobha Rupanar

Departmental Event Coordinator: Dr. Shobha Rupanar

HoD: Dr. S. M. Khairnar

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

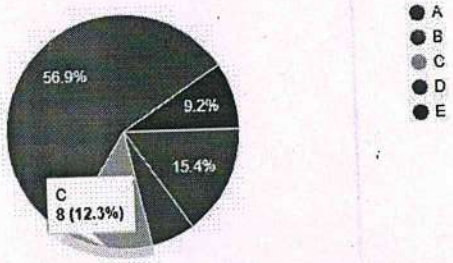
Ajeenkya DY Patil School of Engineering Lohegaon, Pune

Ajeenkya DY Patil School of Engineering Engineering Sciences Lohegaon, Pune

Feedback:

Division

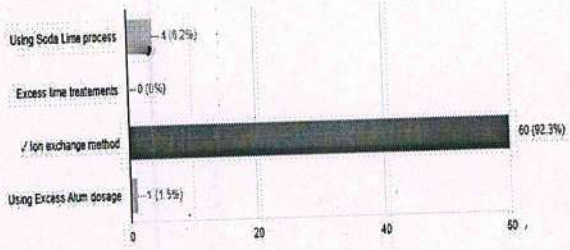
65 responses



Zero hardness of water is achieved by....

Copy

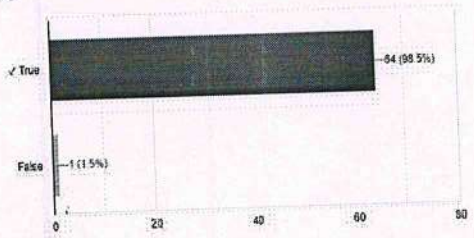
60 / 65 correct responses



Alkaline hardness is due to the presence of bicarbonate, carbonate and hydroxides of the hardness-producing metal ions.

Copy

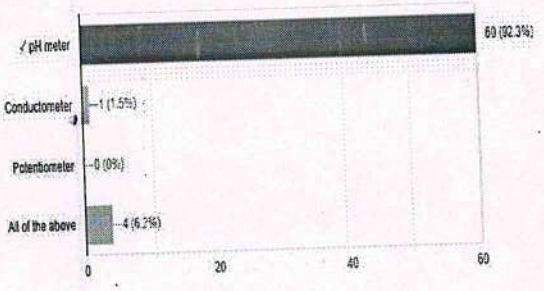
64 / 65 correct responses



...meter is used to measure the PH of Solution

Copy

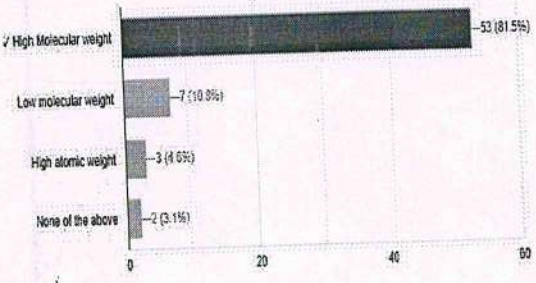
60 / 65 correct responses



Polymers have.....

Copy

53 / 65 correct responses



Ajeenkya DY Patil School of Engineering Lohegaon, Pune

Ajeenkya DY Patil School of Engineering Engineering Sciences Lohegaon, Pune

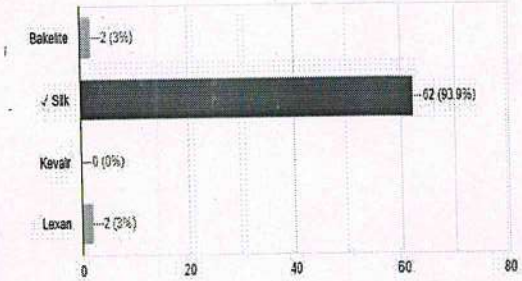
Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

...meter is used to measure the PH of Solution

60 / 65 correct responses

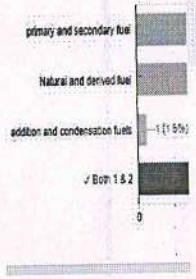
Which of the following is natural polymer?

62 / 66 correct responses



Fuels are classified as

37 / 66 correct responses

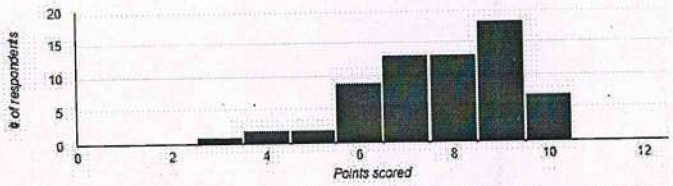


Average
7.72 / 12 points

Median
8 / 12 points

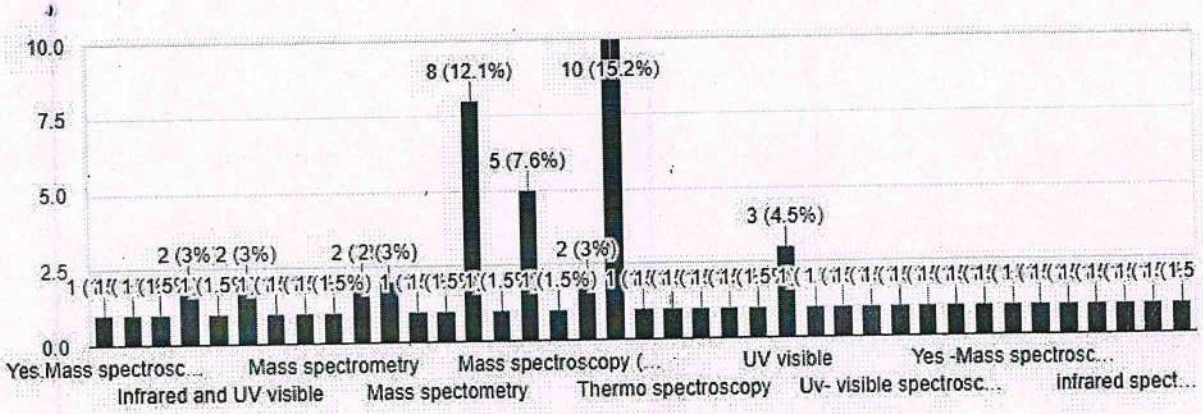
Range
3 - 10 points

Total points distribution



Do you Know any one of the spectroscopy method used for analysis of organic compound? If yes write any one.

66 responses



Attendance:

Full Name of Student (For e-Certificate)	Division	Roll number	Email ID

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

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Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering Sciences, Lohegaon, Pune

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MULLA UJMA INAYATULLA	A	7	ujuz8346@gmail.com
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Yash Dnyaneshwar Rakhunde	A	5	rakhundeyash338@gmail.com
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Date Prathamesh Sanjay	D	31	prathamash101@gmail.com
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Krunal Dorkar	D	58	krunaldorkar@gmail.com
Ladekar krishna jivan	D	64	krishnaladekar8@gmail.com
Lohar Samarth Kailas	D	59	samarthlohar42@gmail.com
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Piyush Prashant Kopte	D	5	piyushkopte23@gmail.com
Prafull Madhav Satle	D	11	prafullsatle@gmail.com
Pratik sangale	D	10	pratiksangale2004@gmail.com
Raj mohan sonavane	D	21	Sonavane raj2151@ gmail.com
Rajat pethe	D	40	rajatpethe26@gmail.com
Rohit Bapu Patil	D	27	rohitpatilrp308810@gmail.com
Rushikesh Ashok Bandgar	D	55	rushikeshabandgar08@gmail.com

5

DY Patil School of Engineering, Lohegaon, Pune

Principal
Ajeenkya DY Patil School of

Ajeenkya DY Patil School of Engineering Sciences, Lohegaon, Pune

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Samruddhi Kishor Londhe	D	2	Samulondhe2003@gmail.com
Sanika Sunil Sutar	D	53	sanikasutar2312@gmail.com
Shubham Ashok Adak	D	65	shubhamadak78@gmail.com
Shubham Sharad Rane	D	13	shubhamrane830@gmail.com
Siddhi sampat kadam	D	43	siddhik059@gmail.com
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Snehal Ashok Bhosale	D	12	snehalbhosale8087@gmail.com
Snehal Gavhane	D	38	snehalgavhane09@gmail.com
Soham Anil Tandale	D	16	sohamtandale2003@gmail.com
Syed Jawad Abbas Zaidi	D	6	jawadzaidi026@gmail.com
Tanmay Karhade	D	61	tanmaykarhade@gmail.com
Vineet Ashok Bhandari	D	29	vineetbhandari333@gmail.com
Vivek Parasram Shelke	D	14	vishelke39@gmail.com
Aishwarya Rajendra jadhav	E	60	aishwaryajadhav044@gmail.com
Atkare Prathamesh Suresh	E	3	atkaresuresh881@gmail.com
Rohan Yogiraj Panchal	E	65	rp285518@gmail.com
Shubhansh Gupta	E	31	guptashubhansh03@gmail.com
Siddhi pralhad Ghogare	E	36	siddhighogare980@gmail.com
Sneha Gupta	E	20	snehagupta17a@gmail.com

Ajeenkya DY Patil School of Engineering Sciences Lohegaon, Pune

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering Lohegaon, Pune

Ec PBL= (7)

AJEENKYA DY Patil School of Engineering	"Empowerment through quality technical education" **AJEENKYA D Y PATIL SCHOOL OF ENGINEERING** Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105. Department of Engineering Sciences Form No. IQAC/25

Date: 12/06/2023

Event Notice

Academic Year: 2022-23 **Semester-II**

Name of the event: Guest lecture on "Fuel & Energy Technology"

Mode of Conduction: Offline

Date of the event : Department of Engineering Sciences, is Guest lecture on Fuel & Energy Technology" on 12th June, 2023 via online mode at Ajeenkya D.Y. Patil school of Engineering, Pune.

Sr. No.	Date & Day	Time	Mode
1	**12/06/2023, Monday**	1:00pm to 2:00 pm	Online mode on MS team Platform

Dr. Shobha Rupanar
Event Coordinator

Dr. S. M. Khairnar
Head of Department

Dr. F. B. Sayyad
Principal

Ajeenkya DY Patil School of Engineering Sciences Lohegaon, Pune

Principal
Ajeenkya DY Patil School of

DY Patil School of Engineering Lohegaon, Pune

AJEENKYA DY Patil School of Engineering	"Empowerment through quality technical education" **AJEENKYA D Y PATIL SCHOOL OF ENGINEERING** Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105. Department of Engineering Sciences Form No. IQAC/25

Date: 12/06/2023

Event Permission with Budget

Academic Year: 2022-23 **Semester-II**

To

Principal,

DYPSOE, Pune

Subject: Request for permission to organize Guest Lecture on "Fuel & Energy technology"

Through: FE-HOD

Respected Sir,

Department of Engineering Sciences, is organizing Guest lecture on "Fuel & energy technology" 12th June, 2023 via online mode at Ajeenkya D.Y. Patil school of Engineering, Pune.

Budget of the event:

Sr. No.	Date & Day	Time	Remuneration
1	**12/06/2023, Tuesday**	1:00pm to 2:00 pm	NA

May I request you to give the permission to organize this event and sanction the said budget.

Thanking You,

Yours Faithfully,

Event Coordinator: Dr. Shobha Rupanar

HOD: Dr. S. M. Khairnar

Principal: Dr. F.B. Sayyad

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Principal
Ajeenkya DY Patil School of Engineering

AJEENKYA DY Patil School of Engineering	"Empowerment through quality technical education" **AJEENKYA D Y PATIL SCHOO OF ENGINEERING** Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105. Department of Engineering Sciences

Form No. IQAC/25
Date: 12/06/2023

Event Schedule

Academic Year: 2022-23

Semester-II

Name of the event: Guest Lecture on "Fuel & Energy Technology"

Sr. No.	Day and Date	Time	Speaker
1	Monday, 12/06/2023	1:00 pm to 2:00pm	Prof. Dipak Shelake

Dr. Shobha Rupanar
Event Coordinator

Ajeenkya DY Patil School of Engineering Sciences Lohegaon, Pune

Dr. S. M. Khairnar
Head of Department

Ajeenkya DY Patil School of Engineering Lohegaon, Pune

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

AJEENKYA DY Patil School of Engineering	"Empowerment through quality technical education" **AJEENKYA D Y PATIL SCHOOL OF ENGINEERING** Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105. Department of Engineering Sciences Form No. IQAC/25 Date: 12/06/2023

Event Organizing Committee

Academic Year: 2022-23 **Semester-II**

Department of Engineering Sciences, is organizing Guest Lecture on Fuel & Energy technology" on 12th June, 2023 via online mode at Ajeenkya D.Y. Patil school of Engineering, Pune. For smooth functioning of the program, the committee formed is listed below with their responsibilities. All are instructed to cooperate for making the event successful.

Sr. No.	Name of the staff	Responsibility	Signature
1	Dr. Shobha Rupanar	1. Introduction of Guest speaker 2. Preparation of Event report of entire event 3. Photography	

Dr. Shobha Rupanar
Event coordinator

Dr. S. M. Khairnar
Head of The Department

Ajeenkya DY Patil School of Engineering Engineering Sciences Lohegaon, Pune

Ajeenkya DY Patil School of Engineering Lohegaon, Pune

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Event Report

Academic Year: 2022-23 **Semester-I**

Name of the Event: Guest Lecture on "Fuel & energy technology" on 12th June, 2023 via online mode at Ajeenkya D.Y. Patil school of Engineering, Pune.

Date and Time	12/06/2023, 1:00 pm to 2:00 pm
Event Venue	Online on MS team Platform
Organized by	Dr. Shobha Rupanar
Targeted Audience	FE students
Platform	MS Team -Online

Objectives:

Many research works highlight on the energy crisis existing in most of the countries and also, effect of CO2 emission leading to global warming. For creating awareness and gaining certain exposure on this issue, a guest lecture entitled Fuel and energy technology was arranged on 12.06.2023 at 1.00 pm.

Details of the event:

The invited guest for the session was Prof. Dipak Shelake, Assistant professor, Department of Mechanical Engineering, ADYPSOE. The session was started at 1:00 pm through online mode on MS-team. Sir, Initially spoke about the various forms of energy, and further discussed about renewable sources of energy available in India. He discussed about the following points in detail,

1. Importance of energy in basic human needs
2. Annual energy consumption in Global as well as India
3. Utilisation of renewable and non-renewable resources
4. Energy savings with less emission.
5. Usage of future fuel as hydrogen
6. Fuel technology

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune * Engineering Sciences

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

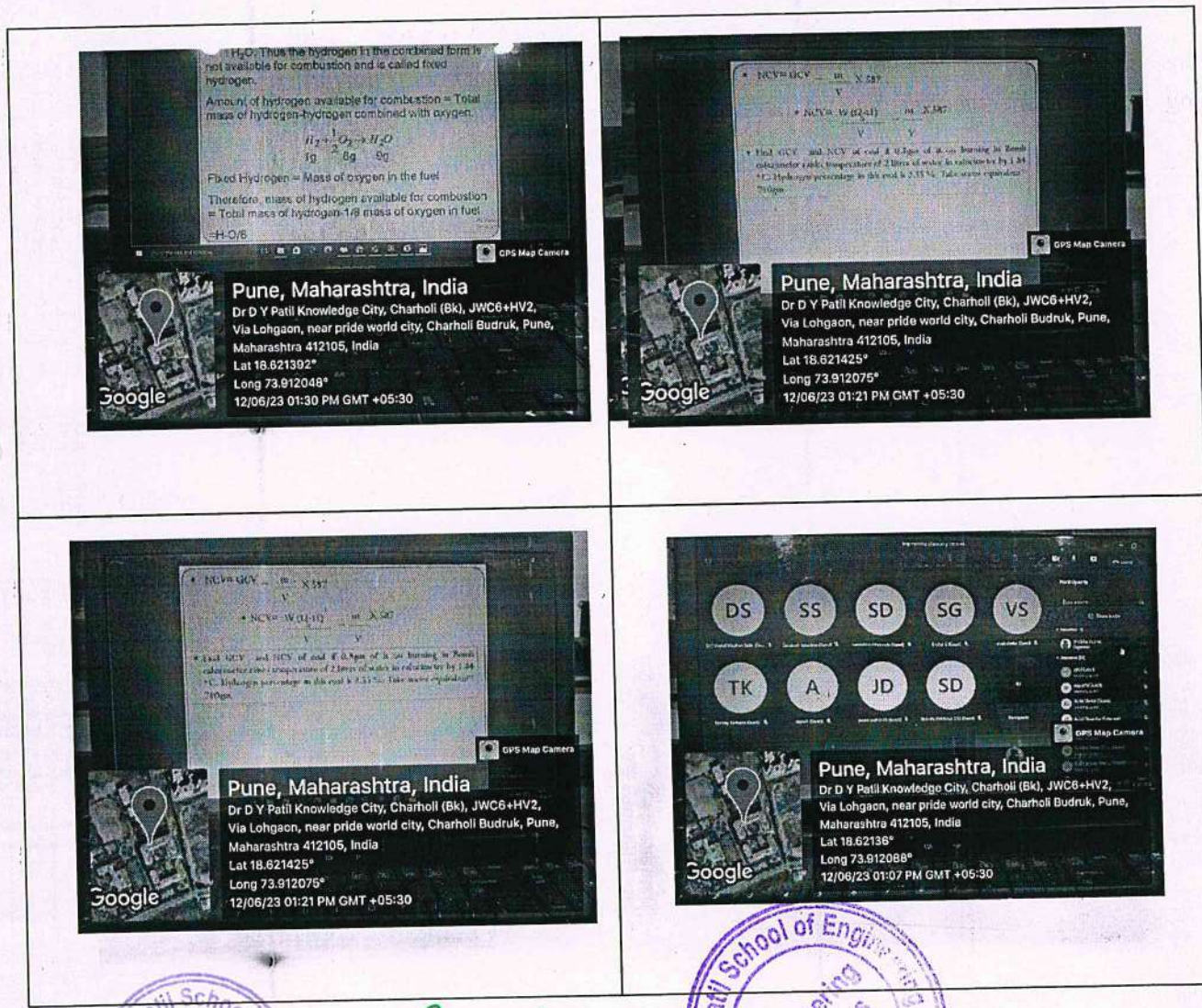
7. Energy technology

The feedback and event attendance is recorded through online mode. At the end of the session, all the queries raised by the participants were addressed by the eminent speaker with great clarity.

Outcomes:

1. Available renewable energy sources available in India.
2. Understand the different types of fuel.
3. Awareness about Fuel: Hydrogen as a Future fuel.
4. Effeotive saving of Energy sources.

Geotagged Photos:



Principal
Jeevnkya DY Patil School of Engineering, Lohegaon, Pune

Name and Sign of Coordinator: Dr. Shobha Rupanar

Departmental Event Coordinator: Dr. Shobha Rupanar

HoD: Dr. S. M. Khairnar

Attendance:

Sr. No.	Email ID	Name of students
1	vineetbhandari333@gmail.com	Vineet Ashok Bhandari
2	tanmaykarhade@gmail.com	Tanmay Karhade
3	surajraykar2004@gmail.com	Raykar Suraj Bapu
4	dakshildhande@gmail.com	Dakshil Sandip Dhande
5	aayushpawar4755@gmail.com	Aayush pawar
6	pradipkhandekar384@gmail.com	Pradip mhalu khandekar
7	awariraj77@gmail.com	Anshul Awari
8	jamadarsmital1956@gmail.com	Smital jamadar
9	samulondhe2003@gmail.com	Samruddhi Kishor Londhe
10	mahatme.dev1@gmail.com	Dev Mahatme
11	saeesurve7@gmail.com	Saee Vijaykumar Surve
12	prathamash101@gmail.com	Date Prathamesh Sanjay
13	malvinikhil177@gmail.com	NIKHIl malvi
14	snehalbhosale8087@gmail.com	Snehal Ashok Bhosale
15	vishelke39@gmail.com	Vivek Shelke
16	samarthlohar42@gmail.com	Samarth kailas lohar
17	snehalgavhane09@gmail.com	snehalgavhane09@gmail.com
18	kshitijdeshmukh13@gmail.com	Kshitij
19	hande.ayush29@gmail.com	Ayush Sanjay Hande
20	thombeaditi442@gmail.com	Thombe Aditi Rajendra
21	abhinav.dupte2603@gmail.com	Abhinav Dupte
22	parthmahalle027@gmail.com	Parth Mahalle
23	saijadhav177@gmail.com	Sai jadhav
24	aditishelar2004@gmail.com	Aditi Shelar
25	vaibhavpuri223@gmail.com	Vaibhav suresh puri
26	jadhavsuyash34@gmail.com	Suyash Arjun Jadhav
27	kashidsuraj007@gmail.com	Suraj Kashid
28	shreyavn22@gmail.com	Shreya Vijay Nalge
29	nishantupadhye78888@gmail.com	Nishant Upadhye
30	krushnapande007@gmail.com	Krushna pande
31	ajit2004official@gmail.com	Ajit Ghayal

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32	solaseakshada@gmail.com	Akshada solase
33	piyushkopte23@gmail.com	Piyush Prashant Kopte
34	shubhamadak78@gmail.com	Shubham Ashok Adak
35	samruddhidhanwate144@gmail.com	Samruddhi Dhanwate
36	prafullsatle@gmail.com	Prafull Madhav Satle
37	namu072005@gmail.com	Sonali Narayan Patil
38	aryanchavan1811@gmail.com	Aryan Chavan
39	krunaldorkar@gmail.com	Krunal dorkar
40	harshalsonawane297@gmail.com	Harshal dipak sonawane
41	jawadzaidi026@gmail.com	Syed jawad abbas zaidi
42	hrishikeshsharma0384@gmail.com	Hrishikesh sharma
43	saakshii.p26@gmail.com	Patil Sakshi
44	rutujasarode530@gmail.com	Rutuja Sudhakar Sarode
45	sanskrutisalunkhenitin@gmail.com	Sanskruti Nitin Salunkhe
46	janhavidhotre851@gmail.com	Janhavi Anil Dhotre
47	shubhamrane830@gmail.com	Rane Shubham Sharad
48	sanikasutar2312@gmail.com	Sanika Sutar
49	anirudhaaghav2222@gmail.com	Anirudha Aghav
50	tanpurehrutvik@gmail.com	Hrutvik Tanpure
51	rajatpethe26@gmail.com	Rajat Pethe
52	dalvevivek7@gmail.com	Vivek Sanjay Dalve
53	siddhik059@gmail.com	Siddhi kadam

Aleenkya DY Patil School of Engineering Engineering Sciences Lohegaon Pune

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Aleenkya DY Patil School of Engineering, Lohegaon, Pune

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AJEENKYA DY Patil School of Engineering	"Empowerment through quality technical education" **AJEENKYA DY PATIL SCHOOL OF ENGINEERING** Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105. Department of Engineering Sciences Form No. IQAC/30 Date: 14/06/2023

Event Report

Academic Year: 2022-23 **Semester-II**

Name of the Event: A Chemistry Concept Reasoning Test.

Date and Time	14/06/2023, 1:45 pm to 2:45 pm
Event Venue	Offline
Organized by	Dr. Shobha Rupanar
Targeted Audience	FE students
Resource Person	Dr. Shobha Rupanar

Event Contents:

1. **Chemistry Concept reasoning Test**
2. **Objectives of Test & result declaration**
3. **Outcomes**

Activity Contents:

Department of Chemistry of Engineering Sciences (FE) has organized "A Chemistry Concept Reasoning Test" on division D students in the subject of chemistry.
The objective of the session is to provide an easy-to-use tool for measuring conceptual understanding and critical scientific thinking of general chemistry models and theories. The session aimed to empower students to become future problem-solvers and contribute to sustainable water management practices.

Conduction of Test

The notice regarding conduction of reasoning test were circulated prior 5 days to FE students. The question paper is shared with all student through projector and test time was allowed for 50 mins. Short answers question based on curriculum were asked to students. The test is designed to

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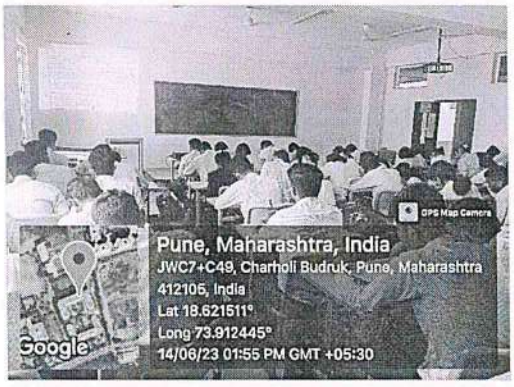
measure concept understanding comparable to that found in free-response questions requiring explanations over calculations. The development of the test focused on the design of new multiple-choice questions to challenge and determine students' understanding by providing various types of questions that require visualization, logical reasoning, and particulate explanations.

After Test, results were declared on next day and also informed to all students.

Outcomes:

This test is organized to analyze the students' logical reasoning ability and to help them to solve problems of Engineering and industrial chemistry.

Geotagged Photos:



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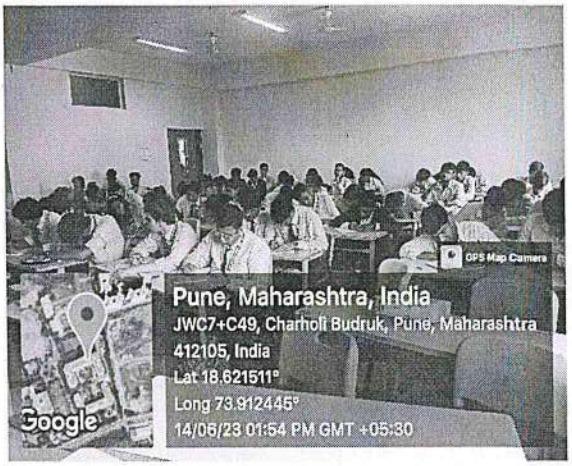

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AJEENKYA DY Patil School of Engineering	"Empowerment through quality technical education" **AJEENKYA DY PATIL SCHOOL OF ENGINEERING** Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105. Department Engineering Sciences Form No. IQAC/28 Date:14/06/2023

Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: A chemistry concept reasoning test

Sr. No.	Name of the Participant	Signature
1	Ayush. S. Hande	Hande
2	Samruddhi. K. Londhe.	
3	Suyash A. Jadhav	
4	Sonali N. Patil.	Patil.
5	Piyush Prashant Kopte	
6	SYED JAWAD ABBAS Zaidi	
7	Raykar Suraj Bapu	
8	Harshal Dipak Sonawane	
910	Krushna Umesh Pande Pratiksa Sangale	Pande Sangale
11	Prafull Madhav Satle	
12	Snehal. A. Bhosale.	
13	Pratiksha G. Ghatge	Ghatge
14	Vivek. P. Shelke	
15	Ishita. Yogesh. Khandagale	
16	Soham Anil Tandale	

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17	Samruddhi Dhanwate	
18	Aditi Shelar	
19	SAEE · SURVE	
20	Anshul Awari	
21	Raj mohan sonavane	
22	NIKHIL MALVI	
23	Aniruddha Balasaheb Aghav	
24	Pradip Mhalu Khandekar	
25	Azad Argade	
26	KOMAL GUPTA	
27	Rohit Bapu Patil	
28	Subodh Sanjeevrao Bamankar	
29	Vineet Bhandari	
30	Vaibhav Suresh Puri	
31	Prathamesh Sanjay Date	
32	Parth Ganeshrao Mohalle	
33	VIVEK SANJAY DALVE	
34	sarode Rutuja sudhakar	
35	Sanskruti N. Salunkhe	
36	Vishal Kakade	
37	Akshada Shivram solase	
38	Gavhane Snehal Raghunath	
39	Aryan Deepak Chavan	
40	Rajat Suresh Pethe	

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41	Dev R. Mahakur	
42	Patil Sakshi	
43	Darshan Bankar	
44	Jamadar Smital	
45	Suraj koshid	
46	Thombe Aditi	
47	Tejas Patil	
48	Dakshil Sandip Dhande	
49	Shreyas Shinde	
50	Bhandarkate Amit	
51	Ojas Tewore	
52	Abhinav P. Dupte	
53	Kunal Naik	
54	Shreya Vijay Nalge	
55	Rushikesh Ashok Bongar	
56	Shreyash Hubale	
57	Hrutvik Suryakant Tanpure	
58	~~Krunal~~ Krunal Dorkar	
59	Samarth Kailas Lohar	
60	Kshitij Deshmukh	
61	Tanmay Karhade	
62	Sai Jadhav	
63	Nishant Upadhye	
64	Krishna Jivanrao Ladekar	

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65	Shubham Ashok Adak	S.A.Adak
66	Ajit Bhaskar Ghayal	Ghayal
67		

Name and Sign of Coordinator: Dr. Shobha Rupanar

Departmental Event Coordinator: Dr. Shobha Rupanar

HoD: Dr. S.M. Khairnar

Principal
Ajeenkya DY Patil School of
Engineering, Lohegaon, Pune

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EC_PBL (2)

AJEENKYA DY Patil School of Engineering	"Empowerment through quality technical education" **AJEENKYA DY PATIL SCHOOL OF ENGINEERING** Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105. Department of Engineering Science (FE) Form No. IQAC/30

Date : 02/ 05 /2023

Event Report

Academic Year: 2022 – 23 **Semester - II**

Name of the event: Industrial visit in association with III Cell

Date and Time	29/04/2023 and 11:00 AM
Event Venue	Katraj Dairy, Pune
Organized by	Department of Engineering Science (FE)
Targeted Audience	FE Students
Link of social media	https://m.facebook.com/story.php?story_fbid=pfbid08EwupMMu7rbogk3JN7vQdNCo3C8vC2aTYvoqRnDE2PbLb5qaZ6kDNNEHsxKDw4WYl&id=100067123457193&mibextid=Nif5oz

Event Contents:

1. Industrial Visit
2. Boiler Working
3. Food processing
4. Logistics

Details of the event:

The department of Engineering Science organized one day Industrial visit to Katraj Dairy, Pune on 29th April 2023 for first year students of engineering. The visit was organized with the prior permission and guidance of head of the department Dr. S. M. Khairnar and honorable principal Dr. F. B. Sayyad.

A total 150 students of first year engineering along with faculty members were present for the visit. Mr. Sachin Rahinj, Dr. Shobha Rupanar, Dr. Pragati Deore, Prof. Ashlesha Adsul and Prof. Aphrin Pathan were present to this industrial visit which started at 11:00 a.m.

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Ajeenkya DY Patil School of Engineering Sciences Pune

Ajeenkya DY Patil School of Engineering Lohegaon, Pune

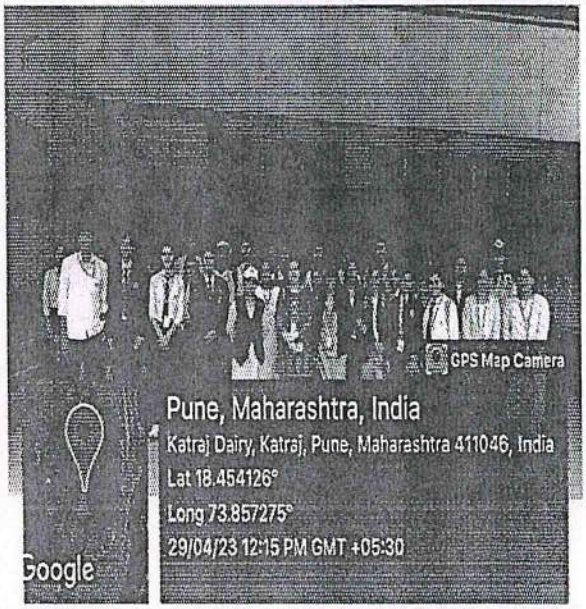
Technical discussions during the industrial visit

The entire students and faculty members were divided into two groups and separate resource person were allotted to each group. All students are sent to training hall where Resource person shown the detailed video of flow of milk from starting i.e. from farmer to dairy and the processes performed on milk as well as how these milk products are made in the dairy.

After this video presentation all students are moved towards boiler section where that engineer explained about boiler working, boiler type, capacity and fuel used in the boiler. There was two unit of boiler one was on stand by and one in working.

Then all students with resource person moved to milk product section where they shown all milk product making process along with its packaging and distribution system. After this section resource person asked doubts to the students. The visit is concluded by distribution of some dairy products to students.

Geotagged Photos:



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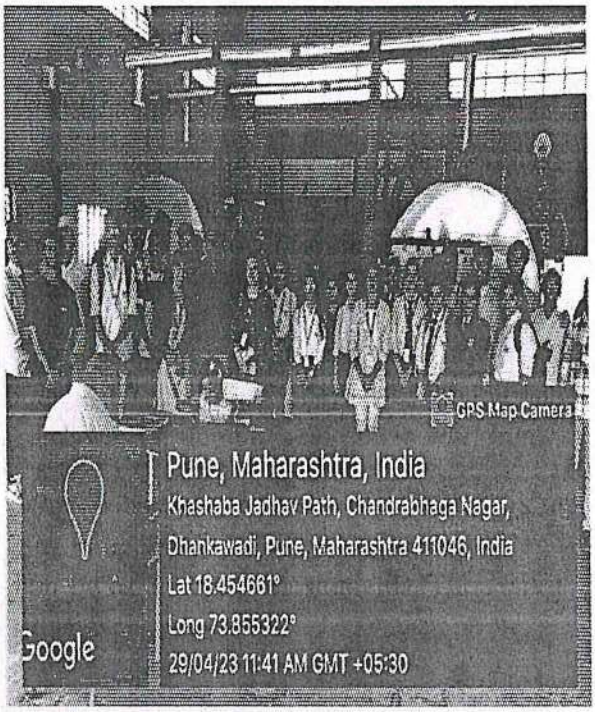
Ajeenkya DY Patil School of Engineering Lohegaon, Pune



Mr. Sachin Rahinj

Departmental Event Coordinator

Ajeenkya D Y Patil School of Engineering Lohegaon Pune ★ First Year Engineering

Dr. S. M. Khairnar

Head Engg. Science Department

Ajeenkya DY Patil School of Engineering ★ Engineering Sciences ★ Lohegaon, Pune

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Engineering, Lohegaon, Pune

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DY Patil School of Engineering

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Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105.
Department of Engineering Science
Form No. IQAC/25
Date: 25/04/2023

Event Notice

Academic Year: 2022-23 **Semester-**II

All the registered students (those have filled Google form) for Industrial visit are hereby informed that the industrial visit is organized as per following details. Kindly report to the venue on time.

Name of the event: Industrial Visit

Date of the event : 29/04/2023 Time: 10:00 AM

Venue : Katraj Dairy Pune

Important Note:

1. Uniform and ID card is compulsory.

2. Wear a shoes at time of visit.

Mr. Sachin Rahinj
Departmental Event Coordinator

Dr. S. M. Khairnar 25/4/2023
Head Engg. Science Department

Ajeenkya DY Patil School of Engineering Lohegaon, Pune

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ajeenkya DY Patil School of Engineering Lohegaon Pune
First Year Engineering

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Engineering Sciences
Lohegaon, Pune

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Date: 26/04/2023

Event Notice

Academic Year: 2022-23 **Semester-**II

All FE faculties are hereby informed that Department of Engineering Science is organizing industrial visit to FE students as per following details.

Name of the event: Industrial Visit

Date of the event : 29/04/2023, Saturday, Time: 10:00 AM

Venue : Katraj Dairy Pune

For smooth conduction of this industrial visit, following staff members will be going to visit. Kindly report to the venue as per schedule.

1. Dr. Pragati Deore
2. Dr. Shobha Rupnar
3. Mr. Abhijit Aiwale
4. Prof. Aphrin Pathan

Mr. Sachin Rahinj
Departmental Event Coordinator

Dr. S. M. Khairnar
Head Engg. Science Department

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Ref: ADYPKC/ADYPSOE/2022-23/497 **Date: 27/04/2023**

To,
The Managing Director,
Katraj Dairy, Pune

Sub: - Regarding permission for industrial visit.

Dear Sir,

The D Y Patil Group is one of the largest educational groups in the country. Padmashree Dr. D Y Patil founded it in the year 1983. It has over 180 Institutes of learning along with its three universities, based out of Navi Mumbai, Pune and Kolhapur. D. Y. Patil Knowledge city, Lohgaon, Pune is carrying out its activities under the visionary leadership of Dr. Ajeenkya DY Patil.

To cope with latest industrial trends & as per need of curriculum of University of Pune it is required to arrange industrial visit of students. We are interested in organizing industrial visit for our First Year Engineering students to your esteemed organization. The details of no. of students is as follows –

Sr. No.	Class	No. of students
1	F.E.	200
Total		**200**

Following faculty members will be present along with students.

Sr. No.	Name of Faculty
1	Dr. Pragati Deore
2	Dr. Shobha Rupanar
3	Mr. Sachin Rahinj
04	Mr. Abhijit Aiwale
05	Mr. Prof. Apharin Pathan

We request you to allow us to visit on **29th April 2023**. We are waiting for your positive reply.

Regards,

Ajeenkya DY Patil School of Engineering * Engineering Sciences * Lohegaon, Pune

Ajeenkya DY Patil School of Engineering * Lohegaon, Pune

Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

Dr. F.B. Sayyad
Principal

Ref: ADYPKC/ADYPSOE/2022-23/497 **Date: 27/04/2023**

To.
The Managing Director.
Katraj Dairy. Pune

Sub: - Regarding permission for industrial visit.

Dear Sir,

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To cope with latest industrial trends & as per need of curriculum of University of Pune it is required to arrange industrial visit of students. We are interested in organizing industrial visit for our First Year Engineering students to your esteemed organization. The details of no. of students is as follows –

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1	Dr. Pragati Deore
2	Dr. Shobha Rupanar
3	Mr. Sachin Rahinj
04	Mr. Abhijit Aiwale
05	Mr. Prof. Apharin Pathan

We request you to allow us to visit on **29th April 2023**. We are waiting for your positive reply.

Regards,

29/4/23
Pune Zillha Saha. Dudh
Utpadak Sangh Mar.
Pune-Satara Road,
Katraj Dairy, Pune-411046.

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

DY Patil School of Engineering, Lohegaon, Pune
Ajeenkya DY Patil School of Engineering Sciences, Lohegaon, Pune

Dr. E.B. Sayyad
Principal

Date:-25/04/2023

Industrial Visit Permission with Budget

Academic Year: 2022-23 **Semester-II**

To,
The Principal
Ajeenkya D. Y. Patil School of Engineering,
Lohgaon

Subject: - Request for permission for conduct Industrial visit and consequently the budget.

Through: HoD Engineering Science (FE)

Respected Sir,

To understand the practical knowledge of engineering in Industry, we are conducting industrial visit to Katraj Dairy, Pune on 29/04/2023 from 11.00 A.M. to 2.00 P.M. for FE all branch students.

The industrial visit will enhance the knowledge of students in the field of Engineering. This visit will make aware of practical challenges in industry and motivate students about their careers.

The following expenses will be incurred to conduct this program.

Sr. No.	Heads	Details	Amount (Rs)
1	Entry fees for students	Rs. 70/- per student	70 x 250 = 17500/-
		Total	**17500/-**

Kindly permit and sanction Rs. **17500/-** (Seventeen Thousand Five Hundred only) to conduct Industrial visit as mentioned above.
Thanking you

Recommended Rs 17500/-
25/4/23

Mr. Sachin Rahinj **Dr. S. M. Khairnar** **Dr. F.B. Sayyad**

Departmental Event Coordinator Head Engg. Science Department Principal

Ajeenkya DY Patil School of Engineering * Lohegaon, Pune * Engineering Sciences

Principal
Ajeenkya DY Patil School of Engineering, Lohegaon, Pune

A/c

25-04-23

Ajeenkya DY Patil School of Engineering * Lohegaon, Pune *

Industrial Visit

Sr. No.	Name	Roll No.	Div.	Mobile No.	Sign
1	Adwaita Ghansham Sukale	40	B40	9960547067	
2	Omprakash Subhash Gadge	3	A	9834547227	
3	Ujma Mulla	7	A	7774011708	
4	Vishwanath Shirish pichake	8	A	8767647124	
5	Atharv Dhanokar	19	A	98224039620	
6	Sanskruti chougale	21	A	7841037667	
7	Pratik pawar	24	A	8308386349	
8	Siddhesh Raoandure	27	A	7249042994	
9	Rohan Nistane	28	A	9923721652	
10	Mane ashish	30	A	9356875478	
11	Nandini Devhade	31	A	9561300844	
12	Mansi Shejwal	47	A	7249293422	
13	Omkar balasaheb gawali	52	A	9764790497	
14	Nihal Paste	54	A	8856017343	
15	Shraddha Santosh Lande	56	A	9175536242	
16	Mahesh	66	A	7877833244	
17	Yashraj Adsul	45	A	9028386294	
18	KRISHNA SUNIL PAWAR	1	B	8275689160	
19	ATHARVA BALAJI BALLA	2	B	9175697667	
20	Sourbha Nayak	7	B	8329644927	
21	Himangi Ratnakar	10	B	7304839250	
22	OVHALKAR DIGVIJAY RAJKUN	11	B	9356934020	
23	Sankalp Kale	14	B	8080633741	
24	Ashish chandan	24	B	8766990473	
25	Sonal Shinde	27	B	8380834378	
26	Aayush Satpute	28	B	8483811027	
27	Akarsh Roy	36	B	9067024505	
28	Avishkar Vasantrao Thube	37	B	7666675243	
29	Rudraksh satpute	48	B	7773966086	
30	Aryan Nitin Ghodeswar	51	B	9730879575	
31	Ritesh Vijay Shelot	53	B	8087845961	
32	Snehal Iratkar	61	B	8767133201	
33	Viraj singh	62	B	7307675661	
34	Mohit Bhagat	64	B	7820991676	

Principal
Alankar DY Patil School of Engineering, Lohegaon, Pune

Industrial Visit

Sr. No.	Name	Roll No.	Div.	Mobile No.	Sign
35	Prasanna	65	B	8767821152	
36	David Verma	66	B	9758179208	D.Verma
37	Siddhi auti	22	B	7038789928	Sauti
38	Vedant Vijay Chavan	44	B	9483509857	
39	Shrivardhan Bangale	33	B	9503736481	
40	Pranav jadhav	3	C	7219203655	
41	Sahil wadaskar	5	C	9322595720	
42	Karan Mahadev Lande	12	C	8766682073	
43	Trupti Ramesh Deshmukh	14	C	9307781531	
44	Yashwant Ghorband	16	C	9356604521	
45	Umesh kardile	18	C	8010261522	
46	Rudrani Sonawane	20	C	9307519751	
47	Darshan bankar	23	C	9322952560	
48	Rohit Shrap Kankaraj	26	C	9.19923E+11	
49	Ojas Jeware	33	C	8625032918	
50	Utkarsh Bhosale	37	C	8097230080	
51	Vishal Kakade	39	C	8010845808	
52	Kunal naik	40	C	9922481459	K.Naik
53	Pushkar Londhe	41	C	9561269905	
54	Tanmay Babaji Dhumal	42	C	8308068490	
55	Rushikesh Santosh Raut	43	C	9322152589	Raut
56	Nyacia Pandita	46	C	6005516191	Nyacia
57	Ruturaj navale	48	c	9112491488	Ruturaj
58	Durgesh Patil	53	C	9370183746	Durgesh
59	SATISH BOLASE	55	C	8767476449	D.Patil
60	Nikita Warule	60	C	80802 95682	
61	Mahesh N Sawant	63	C	9373086099	
62	Mansi Rawal	67	C	7249052345	M.Rawal
63	Srushti Kumbhar	68	C	9730155924	
64	Devesh Surana	65	C	9.19424E+11	DeveshSurana
65	Dashrath Suresh Bogati	4	C	8177831145	
66	Ayush Sanjay Hande	1	D	8087355233	Hande
67	Samruddhi Kishor Londhe	2	D	9503640945	S.K.Londhe
68	Sonali Narayan Patil	4	D	9325657592	Sonali.

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Industrial Visit

Sr. No.	Name	Roll No.	Div.	Mobile No.	Sign
69	Suraj Raykar	7	D	9529311077	
70	Pratik Sangale	10	D	9623696316	
71	Snehal Bhosale	12	D	9970036811	S.Bhosale
72	Vivek	14	D	7757008554	
73	Janhavi Anil Dhotre	15	D	8767656779	Jah
74	Samruddhi Dhanwate	17	D	7219365134	Samruddhi Dhanwate
75	Aditi Shelar	18	D	8483039721	Shelkar
76	Saee Vijaykumar Surve	19	D	8237884148	Saee
77	Anshul Awari	20	D	9371656377	
78	Nikhil malvi	22	D	9729085589	Nikhil
79	Komal Gupta	26	D	7083510019	Komal
80	Rohit Bapu Patil	27	D	9699432565	
81	Vivek Sanjay Dalve	33	D	9021483584	Dalve
82	ARYAN CHAVAN	39	D	8379023356	Chavan
83	Patil Sakshi	42	D	9359553022	Sakshi
84	Jamadar Smital	44	D	8999075360	Smita
85	Hrishikesh Sharma	47	D	9021271755	H Sharma
86	Shreya Vijay Nalge	54	D	8788112360	
87	Babruwahan shinde	56	D	9.1735E+11	
88	Hrutvik Suryakant Tanpure	57	D	9284731866	Hrutvik
89	Lohar Samarth Kailas	59	D	8484845734	
90	Dakshil Sandip Dhande	48	D	9604242346	Dhande
91	Abhinav Dupte	52	D	8788642774	
92	Pranav nitesh jadhav	2	E	9096642890	Jadhav
93	Pranav jadhav	2	E		Jadhav
94	Atik Pathan	5	E		
95	Vaishnavi dattatray dherange	7	E	9960133257	Vaishnavi
96	Neel Singh	11	E		Neel Singh
97	Shreya Jain	13	E		Jain
98	Komal Kumari	17	E		Komal
99	Jadhav Ganesh Govind	18	E	7774989248	
100	Sneha Gupta	20	E		Gupta
101	Upasna Singh	21	E	7756918429	
102	Tushar Zalte	23	E	9309830112	Zalte

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Industrial Visit

Sr. No.	Name	Roll No.	Div.	Mobile No.	Sign
103	Rohan Pise	26	E		
104	Anushka Kawade	28	E	9699747479	Kawade
105	Shubhansh Gupta	31	E	9893830886	
106	Bhavesh Pund	34	E		Pund
107	Siddhi pralhad Ghogare	36	E	7499300877	
108	Diksha Navnath Borhade	41	E	8010812522	Borhade
109	Shivam pandit	43	E	9103003762	Shivam Pandit
110	Rutik Burde	48	E		
111	RAJVEER VIVEKANAND HONK	50	E	7020209686	
112	Prajwal Sanjay Patond	52	E	7350099604	
113	Aishwarya jadhav	60	E	8080254622	
114	Siddharth Rajesh Udekar	67	E	8010670324	Siddharath U
115	Prachi solanki	49	E	96734 5355	
116	Arpan Pandit Gujar	20	F	9370211965	
117	Aditya Sharma	25	F	9551444545	
118	Vishwajeet Salunke	27	F	8208326204	
119	Saloni Patle	36	F	9049148862	
120	Revati Sunil Kute	37	F	7972172542	Kute
121	Rautrao Shivam	38	F	8459625956	R shivam
122	Mayuresh Chaudhari	40	F	9890461806	M chaudhari
123	Pranabh Pardeshi	43	F	9730805633	Pardeshi
124	Dnyaneshwar	47	F	8767919771	Dnyaneshwar
125	Ayush	56	F	8856806382	
126	Vedant Kisan Pawar	57	F	8459155973	
127	Atharva Mohite	58	F	7058245602	
128	Pratyush kumar	63	F	8529239755	
129	Yatharth Kukadia	65	F	8669599314	
130	Aanchal Naik	67	F	7768830117	
131	Chaitanya Thorat	7	F	7385839061	C. Thorat
132	Vipul Chavan	31	F	9552219444	
133	OMKAR BHISADE	12	F	8830065716	
134	Sangram Ghumre	19	F	9529755887	
135	Abhinav Rai	21	F	8483931801	
136	Amey Balasaheb Patil	23	F	9511827776	

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Lohegaon, Pune

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Sr. No.	Name	Roll No.	Div.	Mobile No.	Sign
137	Siddhant dhiware	45	F	7620196911	
138	Aman	62	F	8899449446	
139	Mayureshwar Nagarsoge	2	G	8767617741	
140	Ankush Vishwakarma	21	G	7387430516	
141	Gayatri Vilas Patil	23	G	7350043820	
142	Kumari Manchal Gupta	28	G	8421721187	
143	Suhani Girhe	36	G	9356010323	
144	Raskar Pooja Ramdas	43	G	8446182960	
145	Rugwed shedge	45	G	7020414651	
146	SAIF AKHTAR	52	G	7887792829	
147	Anuj Jadhav	62	G	9.19553E+11	
148	Atharva Narawade	64	G	9970146614	
149	Siddhesh Kishor Londhe	66	G	9890989445	
150	Thorat Omkar Ramesh	47	G	9172433521	
151	Pansambal gauri santosh	29	G	7888068287	
152	Shaikh Mohammad Muntazim Ijaju	40	G	7058504571	
153	Saurav Pujari	1	H	7410011354	
154	Nadimoddin Khureshi	2	H	8999517562	
155	Pratik Prakash Pawar	5	H	7083867517	
156	Raj Janardan Mahadik	8	H	8421768361	
157	Chinmay Kulkarni	13	H	9561947792	
158	Prajwal	22	H	7798523325	
159	Bag Hrushikesh vijay	25	H	9284968187	
160	Jay Mahakale	27	H	7057270112	
161	Sujal Navnath Nighot	28	H	8888961755	
162	Sarthak thombare	36	H	9822193417	
163	Durgesh Ramesh Ghodke	39	H	7558581578	
164	Sarvesh jadhao	49	H	9156795479	
165	Dishita bhagtani	50	H	9890747543	
166	Saikat sarkar	65	H	9156955031	
167	Shreya Borate	66	H	8788712272	
168	Atharva Raut	67	H	8830066544	
169	Avishkar chavan	52	H	8208490132	
170	Girish Bhole	1	I	9518365875	

Principal
Bhivarabai Sawant Institute of Technology & Research (W.I.T.)
Wagholi, Pune-412207

Bhivarabai Sawant Institute of Technology & Research (W.I.T.) Wagholi, Pune

Late

Industrial Visit

Sr. No.	Name	Roll No.	Div.	Mobile No.	Sign
171	Nitish Shah	3	I	9607722500	
172	Sahil Tathe	5	I	9970825805	
173	NIDHISH PATIL	7	I	8411948089	
174	Kamalkishor roj	9	I	9309861527	
175	Sushant Dhakane	10	I	7058819828	
176	Akanksha patil	11	I	9421673525	
177	Aditya Khune	12	I	9356537593	
178	Mehul Raul	18	I	8421387125	
179	DESHMUKH SIDDHANT MUKU	20	I	9156097931	
180	Sayli Babasaheb Khade	22	I	8888643531	
181	Sudarshan Shivaji Shelke	23	I	7499874382	
182	Aditya Savale	28	I	9421912526	
183	Omkar Shridhar Bholankar	29	I	8208920317	
184	Anuj Yadav	31	I	7972619534	
185	Suvidya Rahul Sonawane	32	i	7219524120	
186	PRAJWAL PANDURANG RATHC	36	I	9175442235	
187	Akshay Jadhav	37	I	8767077329	
188	Vaishnavi Omprakash Ade	41	I	9822686624	
189	Gayatri Anil Handal	44	I	9028619544	
190	Sainath Maruti Kedar	45	I	9322328098	
191	Prathamesh Moharkar	50	I	8208626839	
192	Ashutosh Naipalsingh Turkar	51	I	8605867165	
193	Subodh sanjay kadam	52	I	7030714813	
194	Piyush Patil	54	I	8149280952	
195	Rohan Shailesh Satpute	57	I	7741915787	
196	Manjiri Mahendra Chaudhari	58	I	9359249149	
197	Rutikansh garasangi	59	I	9511863726	
198	Atharva	60	I	9322943167	
199	Ayush Mishra	62	I	9527141276	
200	Harsh Avinash Kadam	66	I	8767113452	
201	Pranav Arvind Chandrakar	6	I	9370300095	
202	Satchal Patil	33	I	7304085779	
203	Anshul Patel	67	I	6261246418	

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Best Practice – I

Competency Based Education and Assessment

Name of the faculty: - Sachin Rahire

Name of the Subject :- EG

Department: Engg. Science

Class: F.E. Div: A & B

Competency Based Learning (Part A and Part B)

It is an active, adaptive, experiential and participatory learning where students' choice and voice are present in order to bring variety and variation in learning.

Note- Part A and B should cover latest developments, advancements, innovations and technologies in the subject domain.

{Select at least Three from each of Part-A & Part-B for every subject and map the outcome of activity}

Part A- Experiential Learning (Learning by Doing) (**Reference**: NAAC Manual Pg. 72)

Is a process of learning through experience and is more specifically defined as "learning through reflection on doing".

The following statements/ questions are related to the subject you teach in this semester

1. Is it possible to develop any prototype or model by the students related to the subject? ☑ Yes ☐ No
   If Yes, mention the related UNIT No. 06 and Prototype Name - Development of Solid
2. Do you want to show any product demo to the students related to any topic / UNIT? ☑ Yes ☐ No
   If Yes, mention the related UNIT No. 04 and Name of the Demo - Solid models
3. Do you want to assign any mini / major project to the students related to any topic? ☐ Yes ☑ No
   If Yes, mention the related UNIT No. ..... and the Project Name- .....
4. Are you going to arrange any industrial / Field / Laboratory visit? ☐ Yes ☑ No
   Name of Industry /Field/Lab visit - .....
5. Do you want to discuss a case studies related to the subject domain? ☑ Yes ☑ No
   If Yes, mention the UNIT No. 02 and Title of the case study - A case study on Engg. Graphics laboratory

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6. Do you want to focus on any simulation/gaming based learning in the subject? Yes / No
   If Yes, mention the UNIT No. ..... and Name of the Simulation/Game- .....
7. Do you want to assign any mentor from industry /company to the students so that they can understand the subject well? Yes / No
   If Yes, Name of the mentor and Industry name – .....
8. Is there any student club at department /college level related to the subject domain? Yes / No
   If Yes, Number of students to be enrolled to the club –
9. Do you want to conduct any workshop related to the subject domain? Yes / No
   If Yes, Name of the workshop- ..... No. of students enrolled –
10. Do you want to invite any expert / guest from an industry related to the subject? Yes / No
    If Yes, Name of the expert-..... Name of the Topic – .....
11. Do you want to empower the students to join an ad-on- course related to the subject? Yes / No
    If Yes, Name of the Ad-on-courses available - .....No. of students to be enrolled –
12. Do you want to empower the students to join a skill and practical oriented courses related to the subject? Yes / No
    If Yes, Name of the course available - .....No. of students to be enrolled –
13. Do you want to show a few videos on advances, latest development and technology in the domain or subject? Yes / No
    If Yes, Number of Videos to be shown (maintain the record)-
14. Any course available for the students w.r.t the subject domain at different learning platforms like Udemy, Coursera, Skillshare, MasterClass, Edx, Udacity etc. Yes / No
    Name of the courses -

Part –B Participative Learning (Learning by participating) (Reference- NAAC Manual Pg. 75)

Participatory Learning and Action is a family of approaches, methods, attitudes, behaviours and relationships, which enable and empower people to share, analyze and enhance their knowledge of their life and conditions, and to plan, act, monitor, evaluate and reflect.

1. Do you want to ask open ended questions in the domain? Yes / No
   UNIT No.- 3... Question 1:- Procedure to draw conic curve.....
   UNIT No.- 6.... Question 2:- Procedure to draw DLS.....
   UNIT No.- ..... Question 3:- .....
2. Do you want to conduct group discussion/ Buzz sessions in the subject domain? Yes / No
   UNIT No.- 05. Topic - study of isometric view

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UNIT No.- ..... Topic - .....

3. Do you want to use a question bowl approach in the discussion? Yes / No
   Topic- Engg. Curves
4. Do you want to conduct news analysis with the help of student on any topic? Yes / No
   Unit No. ..... Example .....
5. Do you want to focus on peer learning w.r.t. the subject? Yes / No
   Unit No. ..... Example .....
6. Do you want to use survey methods with the help of student to understand any topic? Yes / No
   Unit No. ..... Example .....
7. Do you want to use Brainstorming session to understand the topic better? Yes / No
   Unit No. ...4..... Name of the Topic ...first angle method of projection
8. Do you want to conduct a small scale research in the subject domain with the help of students? Yes / No
   Unit No. ..... Topic .....
9. Do you take any initiative with the help of the students to collect information related to a topic for better learning? Yes / No
   Unit No. ..... Topic .....
10. Is there any possibility of using a critical incident in the subject domain for better teaching and learning? Yes / No
    Unit No. ..... Incident .....
11. Do you want to use the approach of video viewing and discussion? Yes / No
12. Do you want to use any other participatory approach or method or game in teaching and learning? Yes / No
    Name of the approach /method/game - By the student for the student

Sign of Subject Teacher: Raj

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Sign of HoD
5/4/2023

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Best Practice – II

Bridging the Gap between Education and Employment through Industry Connect

Name of the faculty: - Sachin Rahiz

Name of the Subject: - E G Class: FE Div: A B

Sector of the industry Identified: - .....

Name of the industry to be connected:- .....

Plan of Action (PoA):- {Select at least five for each subject and map the outcome of activity}

1. Do you want to sign Sign MoU with the industry? Yes [ ] No [✓] Tentative date to sign the MoU:- ...../...../2023
2. Are there any hot topics, areas, trends, advances, technologies in the industry sector? Yes [✓] No [ ]
   Mention Names- .....
3. Do you want to identify issues, problems and challenges in the industry? Yes [✓] No [ ]
   List the issues.....
4. Do you want to conduct the product survey of the industry with the help of students? Yes [ ] No [✓]
5. Do you want to let the students to understand the website of the industry? Yes [✓] No [ ]
6. Do you want to arrange a physical visit to the industry? Yes [ ] No [✓]
7. Do you want to arrange a virtual visit of the industry? Yes [ ] No [✓]
8. Do you want to arrange a guest lecture? Yes [ ] No [✓]
   Title of the guest lecture -.....
9. Is it possible to get sponsored project(s) from the industry for the final year students? Yes [ ] No [✓]
10. Is it possible to get internship for the SE/TE students from the industry? Yes [ ] No [✓]

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11. Do you want to write a conference paper/article on the best practices of the industry by involving students? [✓ Yes] [No]

12. Do you want to arrange a hands-on workshop for the subject in collaboration with the industry? [Yes] [✓ No]
    Title of the workshop - .....

13. Is there any skill development course available in the market w.r.t the subject? [✓ Yes] [No]
    Title of the course - CAD Courses

14. Are there any skilling, upskilling, reskilling or multiskilling trainings /workshops available at, NSDC/Skill India/Make in India for the subject? [Yes] [✓ No]
    Names of the courses –

15. Do you want to motivate the students to participate in National/international employability tests or exams in the subject? [Yes] [✓ No]
    Name of the tests - .....

Sign of Subject Teacher: Rahij

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Sign of HoD
5/4/2023

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Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I [Part I] Activity: **Product Demo using wooden models**

Date and Time	**30/05/2023, 11:00 am to 12:00 pm**
Event Venue	Classroom No.431
Organized by	Department of Engineering Sciences
Targeted Audience	FE students
Resource Person	Mr. Sachin Rahinj

Activity Contents:

On 30th May 2023, a Product Demo using wooden models session on projection of solids of solid model - Cylinder was organized for the first year students for the subject Engineering Graphics. The objective of the session was to explain orthographic projection of given object by showing three dimensional models of basic solid such as cylinder, cone and prism. This report summarizes the key highlights and outcomes of the demonstration of solid model session.

There was question answer session after completion of demonstration.

Participants collaborated, understand the different views of 3D models by using 1st angle method of projection and 3rd angle method of projection. This session helped to students to understand different views of 3D objects when it is observed from different directions.

Idea Presentations:

The presentations sparked fruitful discussions and cross-pollination of ideas among participants, fostering a spirit of collaboration and learning.

Outcomes:

The Product Demo using wooden models improved students visualization skill related to 3D objects of basic solids.

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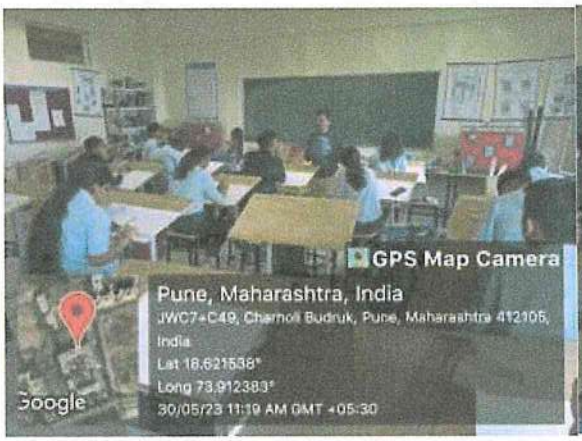
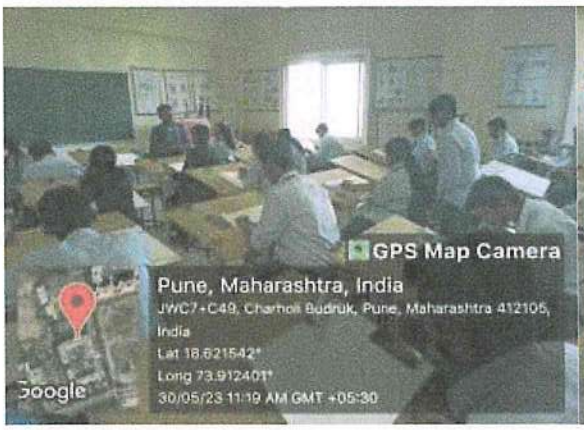
Geotagged Photos:





Activity Coordinator: Mr. Sachin Rahinj

Departmental coordinator- Dr.Pragati Deore

HoD: Dr. S. M. Khairnar

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Event Attendance

Academic Year: 2022-23 **Semester-II**

Name of Event: Product Demo Using wooden models

Sr. No.	Name of the Participant	Signature
1.	Prasanna Utekar	
2.	Mohit Bhagat	Mohit
3.	Ritesh kirade	Ritesh
4.	Aman Shaikh	
5.	Suhail Parvez	Suhail
6.	David Verma	David
7.	Yash Shinde	
8.	Vedant Chavan	Vedant
9.	Ritesh V. Shelar	Ritesh
10.	Akarsh Roy	Yash
11.	Advaita Sukale	Advaita
12.	Aniket Gisi	Aniket
13.	Avishkar Thube.	Avishkar
14.	Atharva. Kulkarni	
15.	Sharvari Utekar	Sukar

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16.	Nagesh Dnyaneshwar Shete	Shete
17.	Onkar Rajendra Somvanshi	
18.	Aayush Satpute	Aayush..
19.	Sankalp Kale	
20.	Saurav Omble	
21.	Shrivardhan Bangale	
22.	Ruturaj Gaikwad.	Ruturaj
23.	Himangi Ratnakar	
24.	Harshad Kiran Mhaske	HKMhaske
25.	Siddharth Chiwande	
26.	Rushikesh Girase	RGirase
27.	Soral Shinde	Shinde.
28.	Krishna Pawar	Kpawar
29.	Muskan Shaikh	Mshaikh
30.	Aman Shaikh	Aman
31.	Digvijay Ovhalkar	DOkar
32.		
33.		

Name and Sign of Coordinator: Rutuj

Departmental Event Coordinator:

HoD:

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Ajeenkya DY Patil School of Engineering Engineering Sciences Lohegaon, Pune

Activity Report

Academic Year: 2022-23 **Semester-II**

Best Practice I [Part B] Activity: **Brain Storming Session**

Date and Time	**06/06/2023, 12:45 pm to 1:45 pm**
Event Venue	Classroom No.435
Organized by	Department of Engineering Sciences
Targeted Audience	FE students
Resource Person	Mr. Sachin Rahinj

Activity Contents:

On 6th June 2023, a dynamic and engaging brainstorming session on DLS of Cylinder was organized for the first year students for the subject Engineering Graphics. The objective of the session was to foster creativity and generate innovative ideas to address development of solid surfaces. The session aimed to empower students to become future problem-solvers. This report summarizes the key highlights and outcomes of the brainstorming session.

Question answer session was organized for the session.

Participants collaborated, shared insights, and refined their ideas, taking into consideration the feasibility, scalability, and potential impact of their proposed solutions.

Idea Presentations:

Each student had the opportunity to present their DLS developed ideas to the wider audience. Prototypes, or concept illustrations were encouraged to enhance the clarity and understanding of the proposals. The presentations sparked fruitful discussions and cross-pollination of ideas among participants, fostering a spirit of collaboration and learning.

Outcomes:

The brainstorming session resulted in numerous innovative and impactful ideas related to DLS.

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Geotagged Photos:

Activity Coordinator: Mr. Sachin Rahinj

Departmental coordinator- Dr.Pragati Deore

HoD: Dr. S. M. Khairnar

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06/06/2023

Activity :- ~~Meeting of Students~~

Brain storming session.

Roll No.	Name	Sign
B1.	Krishna S. Pawar	Kspawar.
B2.	Atharva B. Balla	Balla
B3.	Vedant V Dudhate	Vedant.
4.	Aman N Shaikh.	Shaikh.
5.	Anuj Patil	Patil.
6.		
7.	Sourbha Nayak	Sourbh
8.	Sayog Kulkarni	Sayog
9.	Sarthak Kute	Sarthak
10	Himangi Ratnakar	Jan
11.	Ovhalkar Digvijay	Dhalkar
12.	Ruturaj Gaikwad.	Ruturaj
13.	Athang Sinhale	Sinhale
14.	Sankalp Kale	Sankalp.
15.	Sujal Vishal Erande	
16.	Abhijeet Ulagadde	Abhijeet.
17.	Harshad Kiran Mhaske	HMhaske.
18.	Siddhant . S. Gawade	Gawade
19.		
20.	Rohan Vanjari	
21.	Onkar Somvanshi	
22.	Siddhi Auti	Siddhi
23.	Nagesh D. shete	Shete
24.	Ishish chandan	Ishish
25.	Saurav Omble	
26.	Rushikesh Girase	Girase
27.	Sonal Shinde	Shinde
28.	Aayush Satpute	Satpute..
29.	Swarup Tamgadge	Tamgadge
30.	Siddharth Chiwande	

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Roll No.	Name	Sign.
31.	Rohit Indurkar	
32.		
33.	Shrivardhan. Bangale	
34.		
35.	Pranjal Dhore	
36.	Akarsh Roy	
37.		
38.	Aniket Giri	
39.		
40.	Adwaita Sukale.	
41.	Abhishek Shelar	
42.		
43.	Abhishek Dhage	
44.	Vedant Chavan	
45.	Aniket Polve.	
46.		
47.	Aman Shaikh	
48.	Rudra Sadpute	
49.		
50.		
51.	Shyam Ghodeswar	
52.	VAIBHAV. S. LUNGARE	
53.	Ritesh V. Shelat	
54.	Atharva. Kulkarni	
55.		
56.		
57.	Sohail Parvez	
58.	Prathmesh Kapkar	
59.	Sharvari A. Utekar	
60.		

Principal

Roll No.	Name	Sign.
61.		
62.		
63.		
64.	Mohit Bhagat	Mohit
65.		
66.	David Verma	David
67.		

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Themed Section: Engineering and Technology

Gas Stove Automation

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ABSTRACT

The main problem objects user of cooking gas in all cooking purposes in the world is the safety and controlling of using this gas. As known that this gas is flammable and very
dangerous when is used in incorrectly ways. So all manufacturer companies in the world resort to find secured methods which have low cost and more reliability to solve this problem. Most of these methods are using technologies techniques which make user (cooker person) uses his cooker system safely. This paper studies and shows one of simple way for make an automatic gas cooking control system by using available technology techniques. This way was done with microcontroller (atmega32) and other electronic components like servo motor, etc. The atmega32 microcontroller controls all communication signals between these electronic instruments in this system. In this system the word automatic means that the system has some (not all) automatic jobs like stop working in the case of finish cooking time. So the users(cookers) start the working (ignition) by inserting some inputs data to the system like time of cooking and amount of gas. When the time of cooking finished the system will stop ignition automatically. This way show the system is more reliable. Also by this way we can offer the gas in cooking purposes.

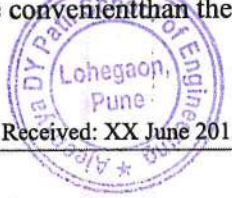
Keywords: Timer, Smart Cooking, Intelligent Algorithms, Safety Measure, Energy Optimization.

I. INTRODUCTION

Nowadays, people are looking for the safety features than Cost of the products and features. So the products should be given more importance to safety while using flammable Products because small defectmay lead to huge damages. The products which deals with the flammable processes should be included safety measures. A Gas stove is a stove that is fuelled by combustible gas such as natural gas, propane, butane, liquefied petroleum gas or other flammable gas. Before the advent of gas, cooking stoves relied on solid fuels such as coal or wood. This new cooking technology had the advantage of being easily adjustable and could be turned off when not in use. The proposed system provides safety and more comfortable to the users. The Features in the proposed system make the cooking process more convenientthan the conventional process.

One of the Features is Timing Mode, in which the stove will automatically shut off after the given time by using motor. A motor is used to switch on and off the gas, another switch used in this is a timer switchto control the time.

In this section, we analyze a review of related existing systems reduction of usage of unwanted fuel in gas stove and also the safer usage of cylinder, which are implemented using various solutions. Each of these systems using different solution has its own features and limitations.



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Themed Section: Engineering and Technology

Review On Kitchen Automation

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Assistant Professor :*[1]Department of Engineering Science, Ajeenkya DY Patil School of Engg., Pune, Maharashtra, India
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ABSTRACT

Cooking is one of the main sources of indoor air pollutants, and may even exceed the contribution from outdoor sources. This pilot study examines the use of different flow-rate fans during cooking and tests whether continuing to run the fan after cooking significantly improves pollutant removal rates and integrated exposures. Tests were carried out in the Canadian Centre for Housing Technology's twin research houses, in Ottawa, Ontario. They completed the same cooking protocol 60 times on a gas stove, testing 6 different flow rates on three different over-the-range exhaust fans, while continuously measuring UFP, PM2.5, NO2, and NO. The fan was operated during cooking for all tests and then either turned off or left on after cooking for the duration of the three hour test. They estimated decay rates, source emission rates, and integrated exposures to measured pollutants following the cooking test. The results showed that while leaving the fan on after cooking generally increased decay rates, it had a relatively small effect on integrated exposures compared to the effects of fan flow rate and the specific fan used during cooking. For PM2.5, the effect of running an exhaust fan for 15 min after cooking was similar in magnitude to the impact of a 100 cfm increase in the flow rate used while cooking: both were associated with a decrease in 15-min integrated exposure of roughly 3 μg m−3 .
This suggests that one can partially compensate for a low flow rate exhaust fan by continuing to run the fan after cooking.

Originally, fans are invented to provide for flow of cool air. They are device that can be found in our bedroom, living area and various areas of our house. Apart from this use and application, there are various areas where a fan is used to serve a different purpose. Nowadays, exhaust fan is one of the important tools used in the house.

The size and scale of the exhaust fan depends upon the location and purpose of exhaust fan. In kitchen area, the smell of food is trapped in the home entering and sticking our fabrics and furniture such as living room curtains and dining room cushion, every time we cook. This requires changing of curtains and pillow cover quite often. It might be a hard time removing the stink that entered the cushion if the smell gets sank on it. To keep the air clean, the use of kitchen exhaust fan is required. Grease and smoke collecting to your walls and ceilings will be prevented and it can be assured that fresh air is circulating around you by use of kitchen exhaust fan.

Keywords: Research Paper, Technical Writing, Science, Engineering and Technology

I. INTRODUCTION

Originally, fans are invented to provide for flow of cool air. They are device that can be found in our bedroom, living area and various areas of our house. Apart from this use and application, there are various areas where a fan is used to serve a different purpose. Nowadays,

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Date : 02/ 05 /2023

Event Report

Academic Year: 2022 – 23 **Semester - II**

Name of the event: Industrial visit in association with III Cell

Date and Time	29/04/2023 and 11:00 AM
Event Venue	Katraj Dairy, Pune
Organized by	Department of Engineering Science (FE)
Targeted Audience	FE Students
Link of social media	https://m.facebook.com/story.php?story_fbid=pfbid08EwupMMu7rbogk3JN7vQdNCo3C8vC2aTYvoqRnDE2PbLb5qaZ6kDNNEHsxKDw4WYl&id=100067123457193&mibextid=Nif5oz

Event Contents:

1. Industrial Visit
2. Boiler Working
3. Food processing
4. Logistics

Details of the event:

The department of Engineering Science organized one day Industrial visit to Katraj Dairy, Pune on 29th April 2023 for first year students of engineering. The visit was organized with the prior permission and guidance of head of the department Dr. S. M. Khairnar and honorable principal Dr. F. B. Sayyad.

A total 150 students of first year engineering along with faculty members were present for the visit. Mr. Sachin Rahinj, Dr. Shobha Rupanar, Dr. Pragati Deore, Prof. Ashlesha Adsul and Prof. Aphrin Pathan were present to this industrial visit which started at 11:00 a.m.

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Technical discussions during the industrial visit

The entire students and faculty members were divided into two groups and separate resource person were allotted to each group. All students are sent to training hall where Resource person shown the detailed video of flow of milk from starting i.e. from farmer to dairy and the processes performed on milk as well as how these milk products are made in the dairy.

After this video presentation all students are moved towards boiler section where that engineer explained about boiler working, boiler type, capacity and fuel used in the boiler. There was two unit of boiler one was on stand by and one in working.

Then all students with resource person moved to milk product section where they shown all milk product making process along with its packaging and distribution system. After this section resource person asked doubts to the students. The visit is concluded by distribution of some dairy products to students.

Geotagged Photos:

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Mr. Sachin Rahinj

Departmental Event Coordinator

Ajeenkya D Y Patil School of Engineering Lohegaon Pune
First Year Engineering

Dr. S. M. Khairnar

Head Engg. Science Department

Ajeenkya D Y Patil School of Engineering Lohegaon, Pune

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Industrial Visit

Sr. No.	Name	Roll No.	Div.	Mobile No.	Sign
1	Adwaita Ghansham Sukale	40	B40	9960547067	
2	Omprakash Subhash Gadge	3	A	9834547227	
3	Ujma Mulla	7	A	7774011708	
4	Vishwanath Shirish pichake	8	A	8767647124	
5	Atharv Dhanokar	19	A	98224039620	AB
6	Sanskruti chougale	21	A	7841037667	
7	Pratik pawar	24	A	8308386349	
8	Siddhesh Raoandure	27	A	7249042994	
9	Rohan Nistane	28	A	9923721652	
10	Mane ashish	30	A	9356875478	
11	Nandini Devhade	31	A	9561300844	
12	Mansi Shejwal	47	A	7249293422	
13	Omkar balasaheb gawali	52	A	9764790497	AB
14	Nihal Paste	54	A	8856017343	
15	Shraddha Santosh Lande	56	A	9175536242	
16	Mahesh	66	A	7877833244	
17	Yashraj Adsul	45	A	9028386294	
18	KRISHNA SUNIL PAWAR	1	B	8275689160	AB
19	ATHARVA BALAJI BALLA	2	B	9175697667	AB
20	Sourbha Nayak	7	B	8329644927	
21	Himangi Ratnakar	10	B	7304839250	
22	OVHALKAR DIGVIJAY RAJKUN	11	B	9356934020	
23	Sankalp Kale	14	B	8080633741	
24	Ashish chandan	24	B	8766990473	
25	Sonal Shinde	27	B	8380834378	
26	Aayush Satpute	28	B	8483811027	AB
27	Akarsh Roy	36	B	9067024505	
28	Avishkar Vasantrao Thube	37	B	7666675243	AB
29	Rudraksh satpute	48	B	7773966086	AB
30	Aryan Nitin Ghodeswar	51	B	9730879575	
31	Ritesh Vijay Shelot	53	B	8087845961	
32	Snehal Iratkar	61	B	8767133201	
33	Viraj singh	62	B	7307675661	
34	Mohit Bhagat	64	B	7820991676	

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A.Y. 2022-23: Semester-II: Assessment of Best Practices I & II

Best Practice I:- Competency Based Education and Assessment

Best Practice II:-

Bridging the Gap between Education and Employment through Industry Connect

* Indicates required question

1. Email ID *

2. Branch *

Mark only one oval.

- Mechanical Engineering
- Civil Engineering
- Computer Engineering
- AI&DS
- E&TC
- Engineering Science (FE)
- Automobile (First year only)

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3. Class *

Mark only one oval.

- ◯ FE
- ◯ SE
- ◯ TE
- ◯ BE
- ◯ ME

4. Division *

Mark only one oval.

- ◯ A
- ◯ B
- ◯ C
- ◯ D
- ◯ E
- ◯ F
- ◯ G
- ◯ H
- ◯ I
- ◯ J

5. Name of the Student *

_____

6. Roll No. *

_____

7. Subject: *

_____

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8. Name of Subject Teacher: *

_____

Best Practice -I Competency Based Education and Assessment

It is an active,
adaptive, experiential and participatory learning where students' choice and voice are present in order to bring variety and variation in learning. It has two parts Part-A (Experience Learning - Learning through Reflection or Doing) and Part-B (Participatory Learning - Learning by Participating) which cover latest developments, advancements, innovations and technologies in the subject domain.

9. **What are the Experiential practices (Learning by reflection or Doing) taken by the faculty with respect to the subject?** *

Check all that apply.

- [ ] Developed any prototype or model
- [ ] Shown product demo(s)
- [ ] Assigned mini / major project(s)
- [ ] Arranged industrial / Field / Laboratory visit
- [ ] Discussed case study(s)
- [ ] Focused on any simulation/gaming based learning
- [ ] Assign a mentor from industry /company
- [ ] Empowered to join student club at department /college level related to the subject domain
- [ ] Conducted any workshop related to the subject domain
- [ ] Invited any expert / guest from an industry
- [ ] Explained about ad-on- course related to the subject
- [ ] Empowered to join a skill and practical oriented courses
- [ ] Shown a few videos on advances, latest development and technology in the subject

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10. **What are the Participatory practices (Learning by Participating) taken by the faculty with respect to the subject?** *

Check all that apply.

- [ ] Discussed open ended questions in the classroom
- [ ] Conduct group discussion/ Buzz sessions
- [ ] Used a question bowl approach
- [ ] Conducted news analysis
- [ ] Focused on peer learning
- [ ] Conducted Brainstorming Session
- [ ] Conducted a small scale research in the subject domain
- [ ] Helped students to collect information related to a topic for better learning
- [ ] Used a critical incident in the subject domain for better teaching and learning
- [ ] Used the approach of video viewing and discussion
- [ ] Used other participatory approach or method or game in teaching

Tick mark level of outcome you gained through the above practices

11. The level of practical experience gained in the subject ? *

Mark only one oval.

- ◯ 1- No Gain
- ◯ 2- Somewhat Gained
- ◯ 3- Moderately Gained
- ◯ 4- Significantly Gained
- ◯ 5 - Extremely Gained

12. The level of knowledge enhanced in the subject ? *

Mark only one oval.

- ◯ 1- No Enhancement
- ◯ 2- Somewhat Enhanced
- ◯ 3- Moderately Enhanced
- ◯ 4- Significantly Enhanced
- ◯ 5 - Extremely Enhanced

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13. The level of collaboration, teamwork and communication skills improved ? *

Mark only one oval.

- 1- No Imrovement
- 2- Somewhat Improved
- 3- Moderately Improved
- 4- Significantly Improved
- 5 - Extremely Improved

14. The level of understanding and memory retention improved? *

Mark only one oval.

- 1- No Improvement
- 2- Somewhat Improved
- 3- Moderately Improved
- 4- Improved Significatly
- 5 - Extremely Improved

15. The level of confidence improved? *

Mark only one oval.

- 1- No Improvement
- 2- Somewhat Improved
- 3- Moderately Improved
- 4- Improved Significatly
- 5 - Extremely Improved

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16. The level of creative problem solving skill improved? *

Mark only one oval.

- 1- No Improvement
- 2- Somewhat Improved
- 3- Moderately Improved
- 4- Improved Significatly
- 5 - Extremely Improved

Best Practice – II
Bridging the Gap between Education and Employment through Industry Connect

17. **What are the practices taken in order to Bridge the Gap between Education and Employment through Industry Connect?** *

Check all that apply.

- [ ] Signed Sign MoU with an industry
- [ ] Discussed hot topics, areas, trends, advances, technogies in the industry sector
- [ ] Identified issues, problems and challenges in the industry
- [ ] Conducted the product survey of the industry with which MoU is signed
- [ ] Discussed about the website of the industry
- [ ] Arranged a physical visit / virtual visit to the industry
- [ ] Arranged a guest lecture of the industry person
- [ ] Wrote a conference paper/article on the best practices of the industry
- [ ] Arranged a hands-on workshop for the subject in collaboration with the industry
- [ ] Highlighted the skill development course available in the market w.r.t the subject
- [ ] Motivated to participate in National/international employability tests or exams in the subject

18. Do you think that the above practices will secure your employment after completing the education? *

Check all that apply.

- [ ] Yes
- [ ] No

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19. Do you think that you gained practical experience and skills though above practices? *

Check all that apply.

- [ ] Yes
- [ ] No

20. Do you think that you have been exposed to the industry practices? *

Check all that apply.

- [ ] Yes
- [ ] No

21. Will the level of employability be increased through the above practices, ? *

Mark only one oval.

- ◯ 1- No
- ◯ 2- Somewhat Increased
- ◯ 3- Moderately Increased
- ◯ 4- Significatly Increased
- ◯ 5 - Extremely Increased

22. Are the above practices relevant to the job market? *

Mark only one oval.

- ◯ 1- No
- ◯ 2- Somewhat Relevant
- ◯ 3- Moderately Relevant
- ◯ 4- Significatly Relevant
- ◯ 5 - Extremely Relevant

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A.Y. 2022-23: Semester-II: Assessment of Best Practices I & II

2,294 responses

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Jagruti

Jagruti Mam

Prof. Rohit garad

Rohit garad sir

Gayatri Sherkar

Gayatri Mam

Gayatri mam

Prajakta Khairnar

Prof. Riyaz Kazi

Dr. Saniya Ansari

Prof. Pallavi Shimpi

Pallavi Shimpi

Sheetal more

Suvidha Shaha

988 more responses are hidden

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Best Practice -I Competency Based Education and Assessment

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What are the Experiential practices (Learning by reflection or Doing) taken by the faculty with respect to the subject?

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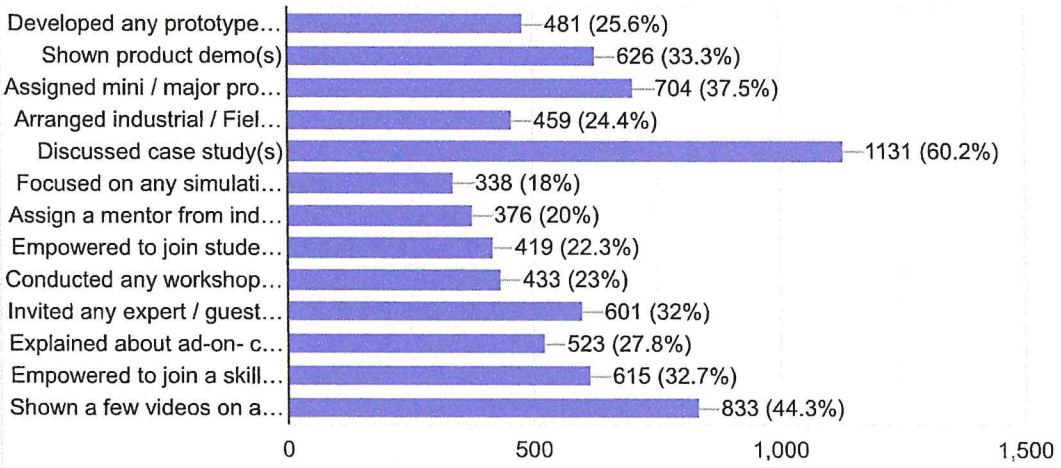

What are the Participatory practices (Learning by Participating) taken by the faculty with respect to the subject?

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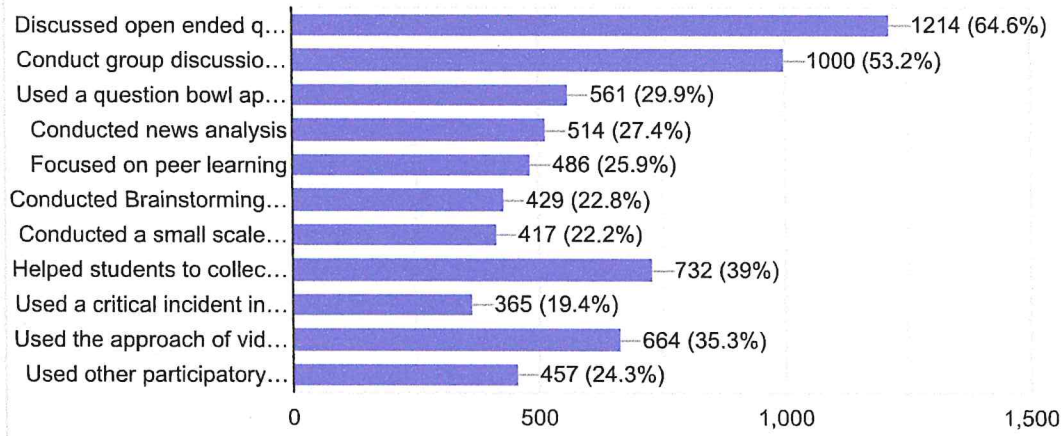

Tick mark level of outcome you gained through the above practices

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The level of practical experience gained in the subject ?

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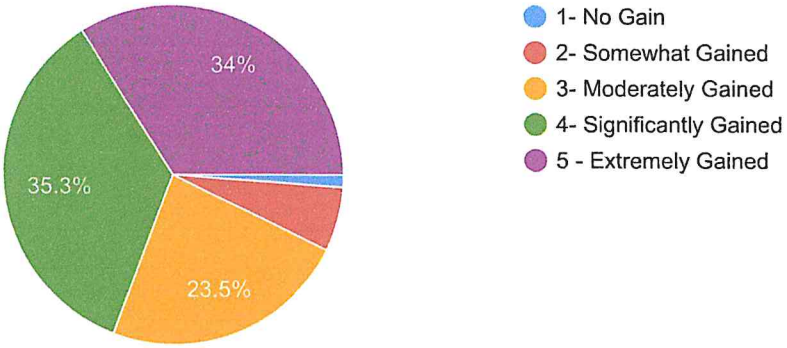

The level of knowledge enhanced in the subject ?

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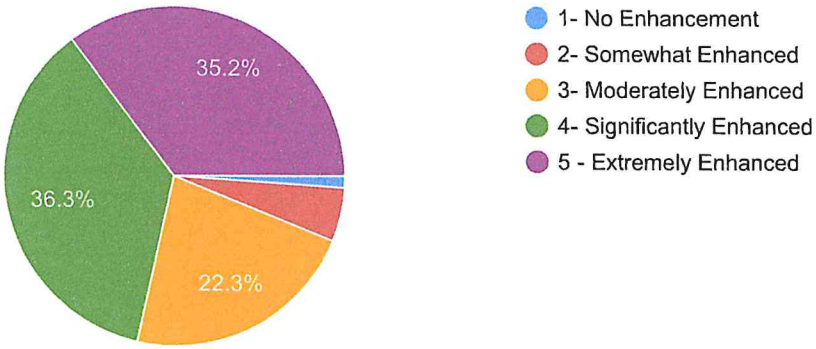

The level of collaboration, teamwork and communication skills improved ?

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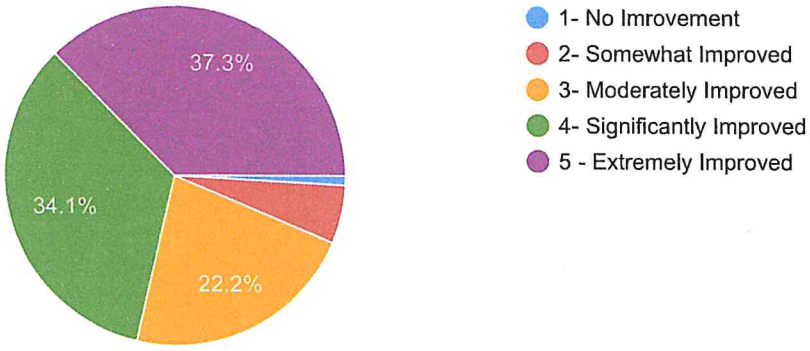

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The level of understanding and memory retention improved?

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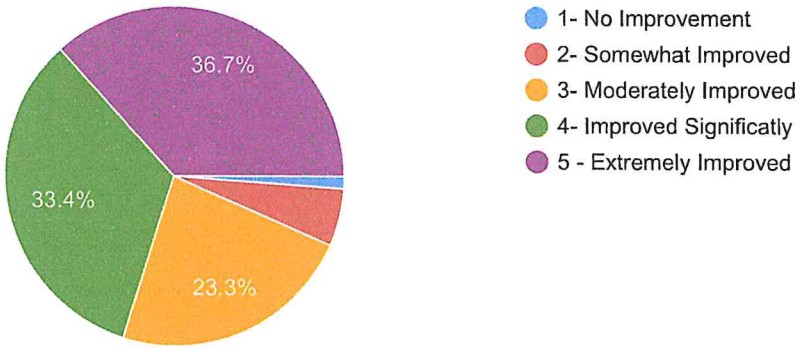

The level of confidence improved?

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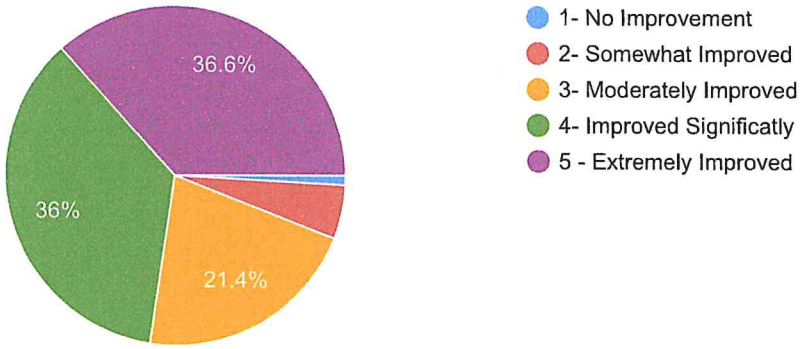

The level of creative problem solving skill improved?

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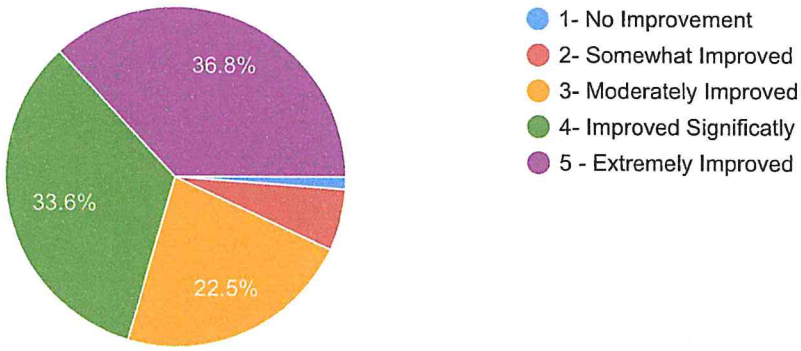

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Best Practice – II

Bridging the Gap between Education and Employment through Industry Connect

What are the practices taken in order to Bridge the Gap between Education and Employment through Industry Connect?

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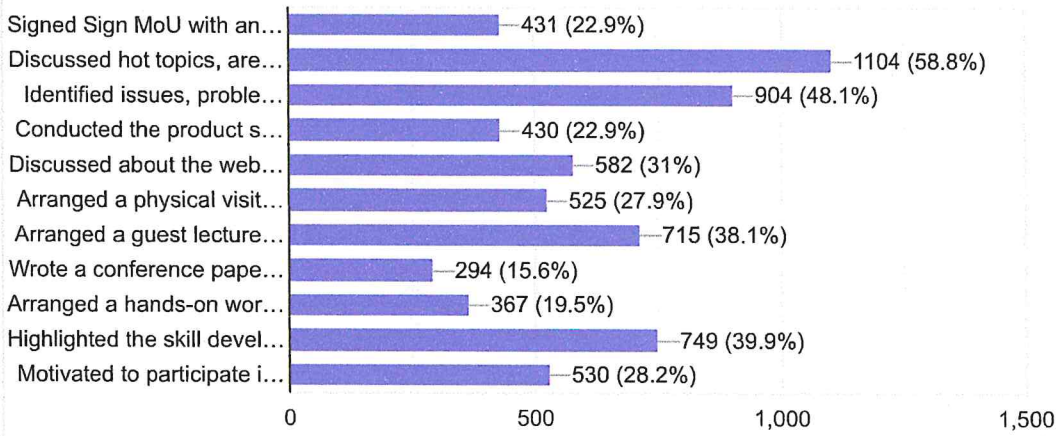

Do you think that the above practices will secure your employment after completing the education?

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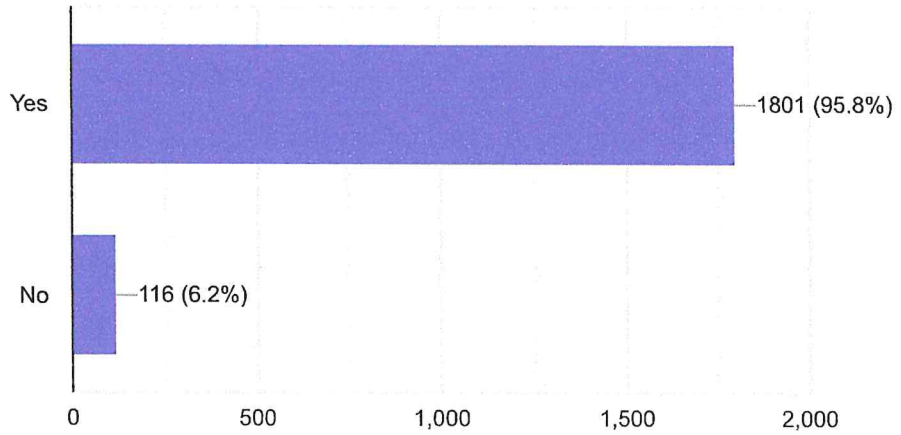

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Do you think that you gained practical experience and skills though above practices?

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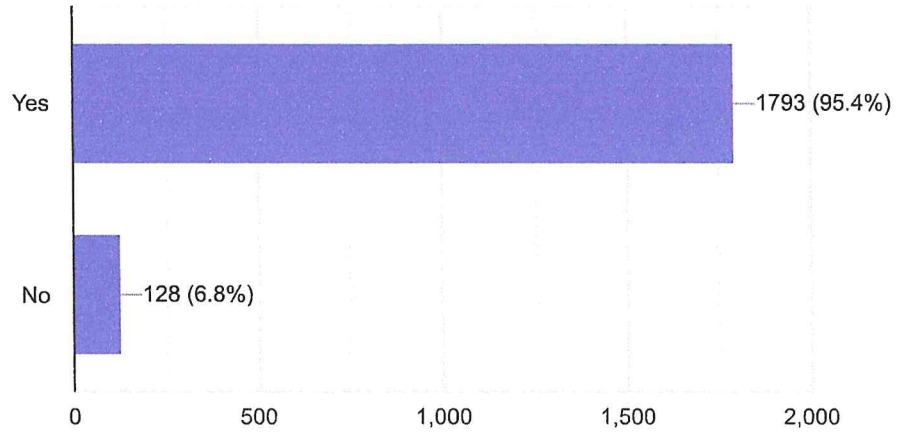

Do you think that you have been exposed to the industry practices?

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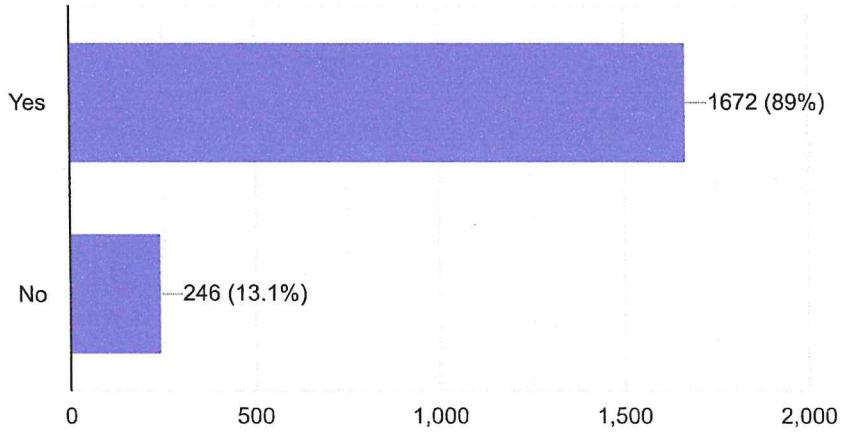

Will the level of employability be increased through the above practices, ?

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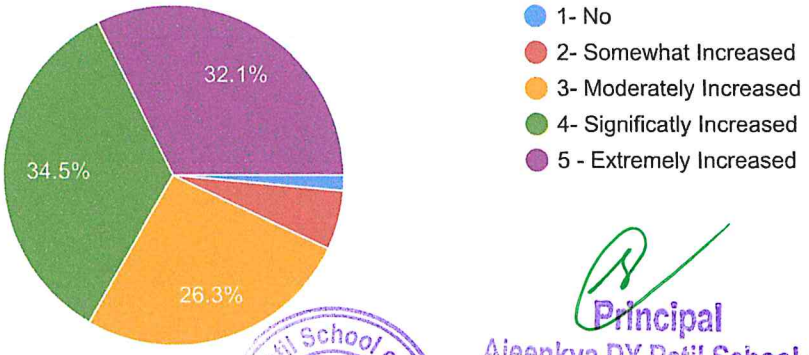

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Are the above practices relevant to the job market?

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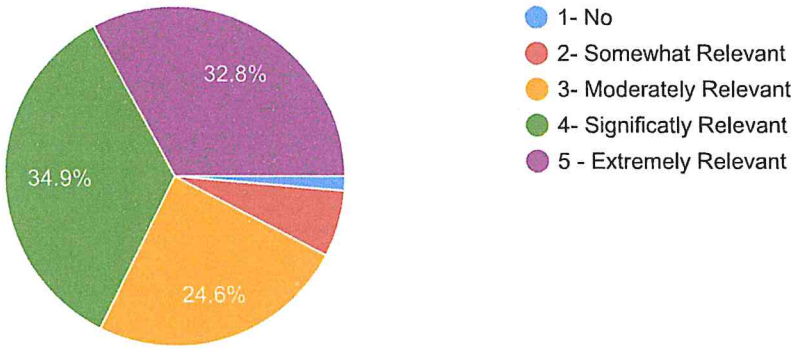

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Dr D Y Patil Group of Institutions' Technical Campus
AJEENKYA DY PATIL SCHOOL OF ENGINEERING
Dr. D. Y. Patil Knowledge City, Charholi Bk., Via. Lohegaon, Pune – 412 105.
INTERNAL QUALITY ASSURANCE CELL(IQAC)
Form No. IQAC/47

Minutes of Meeting

Ref. No.: ADYPSOE/AY 2023-24/**Meeting No. 1**

Date of Meeting: 07/07/2023, Time: 10:30 AM

Venue: IQAC Room No. 228

Agenda of Meeting

1. To discuss the analysis of Feedback report on Best Practices –I & II AY 2022-23.
2. To finalize the actions required against the Feedback/suggestions given by the students in the survey.

Following concerned members were present for the meeting.

Sr. No.	Name	Sign
1	Dr. Kamaljeet Kaur- Director, Technical Campus	
2	Dr. Farook Sayyad, Principal	
3	Dr. Niranjan Shegokar, Dean Academics	
4	Dr. Dileep More, Mentor-CR VII	
5	Prof. Riyaj Kazi, Coordinator (IQAC)	
6	Dr. Pallavi Kharat – Chairperson CR VII	

Points Discussed:

1. The analysis of Feedback report on Best Practices –I & II AY 2022-23 was discussed
2. Suggestive actions were proposed.

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Resolutions:

1) Experiential practices (Learning by reflection or Doing) undertaken by the faculties are interesting and should be practices frequently.
2) Participatory practices (Learning by Participating) should be well planned and implemented to create interest in the students.
3) Industry connect to be strengthened.

Dr. Pallavi Kharat
ChairPerson Criteria VII

Prof. Riyaj Kazi
(IQAC Coordinator)

Dr. Farook B. Sayyad
Principal

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ACTION TAKEN REPORT ON BEST PRACTICES

[Academic Year 2022-23]

Points Discussed

a) Experiential practices (Learning by reflection or Doing)
b) Participatory practices (Learning by Participating)
c) Industry connect

Action Taken:

Sr. No.	Suggestions	Action Taken
1	Experiential practices (Learning by reflection or Doing) undertaken by the faculties are interesting and should be practices frequently.	Extra lecture or time is permitted for these activities.
2	Participatory practices (Learning by Participating) should be well planned and implemented to create interest in the students	Planning of activities before the semester begins is initiates.
3	Industry connect to be strengthened	Industry interaction along with MOU is increased (one person one industry policy is enforced)

The above action taken report is read and signed by the following:

Sr. No.	Name	Sign
1	Dr. Kamaljeet Kaur- Director, Technical Campus	
2	Dr. Farook Sayyad, Principal	
3	Dr. Niranjan Shegokar, Dean Academics	

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4	Dr. Dileep More, Mentor-CR VII	
5	Prof. Riyaj Kazi, Coordinator (IQAC)	
6	Dr. Pallavi Kharat – Chairperson CR VII	

Dr. Pallavi Kharat
Chair Person Criteria VII

Prof. Riyaj Kazi
(IQAC Coordinator)

Dr. Farook B. Sayyad
Principal

Principal
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