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JAYAWANT SHIKSHAN PRASARAK MANDAL'S

JAYAWANTRAO SAWANT COMMERCE AND SCIENCE COLLEGE

Survey No. 58, Handewadi Road, Satavnagar, Hadapsar, Pune-411028 Phone: 7722045403 / 9175954032

Email Id: principal@jspmjscocs.edu.in Website: www.jspmjscocs.edu.in Approved by Govt. of Maharashtra & Affiliated to SPPU, Pune-07 College Code: PU/PN/CS/485/2018



7.2 Best Practices

7.2.1 Describe the two best practices successfully implemented by the Institution.

Best Practice I - Innovative Teaching Methods

Best Practice II - Green Campus



B.E. (Elec.), PGDM, PhD

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BEST PRACTICE I: Innovative Teaching Methods

Title of the Practice:

PROF. DR. T. J. SAWANT

B.E. (Elec.), PGDM, PhD

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Innovative Teaching Methods

Objectives of the Practice:

- To promote the interest in learning as well as enhance the critical thinking.
- To improve a team work and cooperative sense among the students.
- To helps students to understand and memorise the things easily with diverse approach.
- To improve relevancy in the academics and makes the lessons interactive and student friendly.
- To make the student innovative idea centric and to improve creative approach.
- To promote the motto of think outside the box.
- To develop the understanding of students to learn with the experimental approach.
- To promotes the new methods in the teaching as well as in the learning beyond the traditional methods and raises the adaptability in the skills of students to learn independently.
- To promote the asset of leadership in the students and also to enhance their confidence in the front work.

The Context:

In the current era of education, the use of traditional methods of teaching is not making impact on today's generation. The educational needs of today's time are not matching with relevancy in the careers and academic growth. In the 21st century modern methods of teaching enhance the student development and their growth. Educational institutes are increasing day by day and due to this innovative teaching methods are much more needed to push institute far Ahed in these competitive era. The repute of every institute depends on methods of teaching and its innovation. Traditional teaching methodologies that promote the rote memorization but it is not applicable everywhere in the current need. Due to this innovative teaching methods are needed to enhance the students learning. As it promotes lifelong learning and also it is the student centric approach. Effective implementation of innovative teaching methods raises the professional development of educators. Educational policies play important role in the promotion of innovative teaching approach. As it includes funding, technology enhancement, curricular development that encourage the innovative teaching practices.

The Practice:

The innovative teaching methods includes various student friendly and modern teaching methods such as interactive teaching learning method, flipped classroom learning, experimental learning, collaborative learning and its type, peer learning and projects-based learning etc. Also, other innovative methods that include demonstration method, industry projects and online courses etc.

1. Interactive Learning Method:

• Students are motivated to take part in the interactive learning to help them to understand their strengths and weaknesses.

- Interactive method successfully performed periodically to understand the student's mindset and career aspects.
- Interactive method helped to identify the strong learner and weak learner also interested and non-interested students.
- The present student and absent students also carried out by the interactive teaching method.
- The interactive teaching method successfully executed the fruitful communication between teacher and student. Also, students participated in every activity with the interest.

2. Collaborative Learning Method:

- Students taken a part in collaborative learning such as team work for better interaction towards academics.
- Students learned the importance of leadership in the collaborative learning.
- Small teams of students made the interaction fruitful for their own growth in the learning and developing better academic.
- Task to be completed by the students in the team such as projects, models and tutorial session.
- Collaborative learning in the various activities such as NSS activities, tree plantation drives lead the students for better growth and development towards social responsibility.

TPS (Think Pair Share) Learning:

- In the collaborative learning think pair share (TPS) learning approach helped the students in the interactive discussions and sharing ideas.
- Think: Students think independently about the question given.
- Pair: Students are grouped in pair to discuss their thoughts.
- Share: A pair of Students share their ideas with other students.

Four Board Method:

- Four boards on 4 walls. Topic given divided into 4 subtopics. Students group write on respective board. Analyze each other points written on board and comment.
- As the method execute the four different parts of single topic in simple manner.

3. Flipped Classroom Method:

- Teachers clearing doubts of students in the online mode from the home.
- Students work in the class and get support from the teacher while learning as needed.
- Teacher interacts individually with the students as per their need.
- Allowed student to learn something new as per their abilities.

4. Peer Learning (Student as a Teacher):

- Student learn from each other from the formal conceptual discussion.
- Students interacted with each other and discussed on a particular topic with their deep understanding.
- Students discussing the concepts with each other comfortably because there is no superiority with each other.
- Before the practical exam or oral exam peer learning helped student a lot to gain the conceptual clarity about the topic and boosted their confidence towards academics.

5. Problem Based Learning (PBL):

- This method of learning helped the students to develop assets of team work, critical thinking, problem solving and communication skills.
- Teacher and students both working out on the problem for better solution.
- Being able to be a self-directed learner is important to work in a group, which teaches students, the importance of being independently motivated to succeed academically
- The problem has to be identified based on the learning outcome of the topic / subtopic and the problem should be rooted in a real-world situation.

6. Experiential Learning (Field Trip Activities):

- Field trip activities involve the students in actual setup of industry or visit place. As it has the proper demo setups for learning of students.
- Use field trips to deploy the pedagogy of experiential learning by mapping the information taught in class to real-life examples in the outside world.

7. ICT Tools in Learning:

- ICT tools in learning help students to understand the topics via power point presentation on the smart board.
- Implementation of smart board also useful for other learning such as learning through videos.

8. Demonstration in Learning:

- Demonstration method always helpful for student to understand the concept via experimental tool or setup.
- It helpful for student to visualize the concept as teacher perform the experiment in the class.

9. Social Media in Learning:

- Social media like You Tube help the students so understand the concept virtually.
- As it accessible to student to learn anything from anywhere.

Evidence of Success:

- Interactive teaching method helped the student to take part in the positive discussion towards their academics and their overall growth in the learning and career opportunities.
- Students interacting with the teacher periodically without a fear for their growth of learning and conceptual understanding.
- In the collaborative learning, the conceptual growth of students much more raised. Also, the skill of leadership in the student had been enhanced successfully.
- Learning from the group discussion made the positive impact on the other students.
- Developed the confidence of student when they are explaining something on the black board in front of everyone.
- Practical knowledge of students enhanced with experimental and demonstration method.
- Team work concept mostly used by students in the academics for their growth.
- The relation between teacher and student became more friendly while discussing the things related to the concept and overall enhancement.

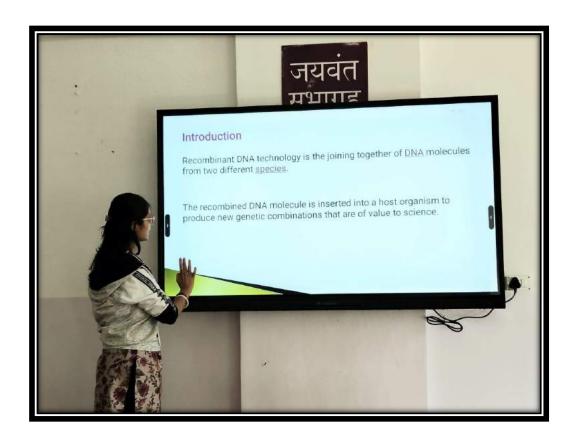
Problem Encountered and Resources Required:

- Four board method is very time taking. As completion of one topic takes 30 minutes min.
- In the team work many students discusses the things which is not a part of their learning and academics.
- Implementing the innovative teaching method required resources, advance technology, teacher training and time for curricular development.
- Some innovative teaching methods are costly.
- The innovative teaching method increases the workload because lack of adequate support and resources.
- In the distance field visit many parents does not allow students to take part on it.





Four Board Method

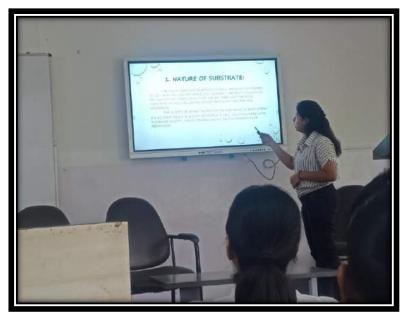




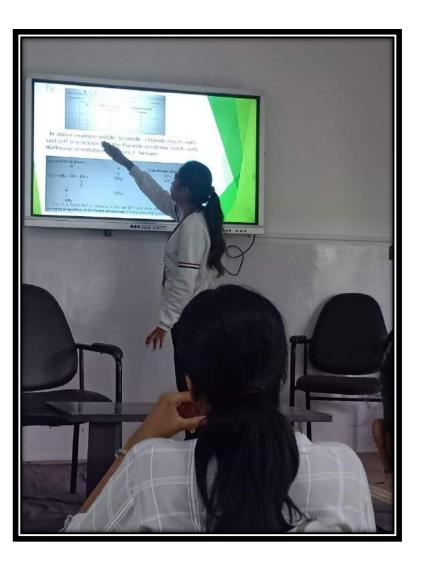
ICT Tools in Learning



Demonstration Method







ICT Tools in Learning





Peer Learning





Problem Based Learning

Field Trip Activities





Science Park Visit Pimpri Chinchwad Pune



Field Visit to Agricultural Development Trust Baramati.

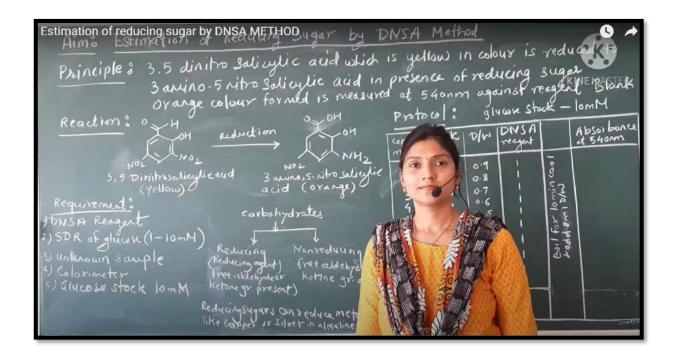
Use of Digital and Social Media

Faculties with their YouTube Channels:

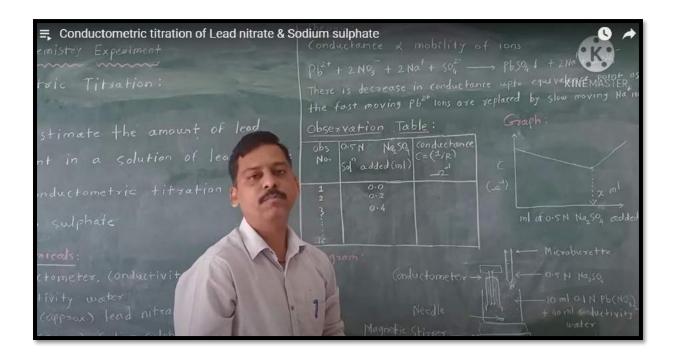
Sr.	Teacher Name	YouTube Channel Link
No		
1	Prof. Archana	https://youtube.com/@microbiologywitharchana1831?si=P
	Ghadge	vJSrpOgBah7nKyd
2	Prof. Kiran Lalge	https://youtube.com/@kiranlalge1692?si=kczNTrl-
	_	<u>mPvDwYZk</u>
3	Prof. Sandeep	https://youtube.com/@englishguruforall?si=MLA5HYCGL
	Gawate	<u>Ft0zdQP</u>
4	Prof. Namita Mane	https://youtube.com/@learncommercewithnamita?si=5s T
		1rPkOKnK-1Ry

Perspective:

During covid-19 period the YouTube lectures of the faculties very helpful for students to understand the key concept of experiments and concepts.



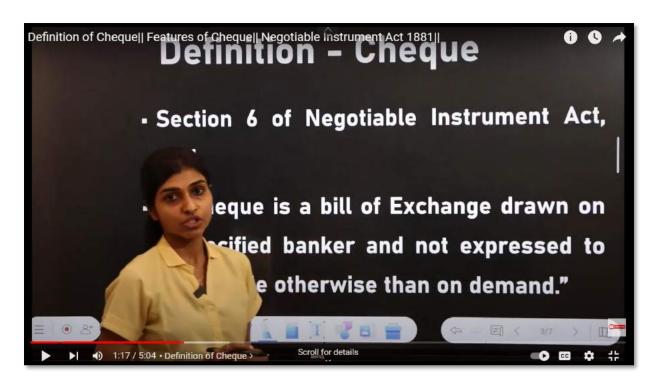
<u>Prof. Archana Ghadge Madam Explaining the experiment of estimation of reducing sugar by DSNA Method.</u>



Prof. Kiran Lalge Sir Explaining Chemistry Experiment.



<u>Prof. Sandeep Gawate Explaining the concepts which come under various competitive exams.</u>



Prof. Namita Mane explaining the concept of commerce and trade

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BEST PRACTICE II: GREEN CAMPUS

1. Title of the Practice: Green Campus

2. Objectives of the Practice:

OF. DR. T. J. SAWANT

B.E. (Elec.), PGDM, PhD

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- ➤ **Promotion of Environmental Sustainability**: To promote a sustainable lifestyle among every individual of the campus.
- Conservation of Ecological Systems and Resources: To conserve and optimize the use of resources such as water and energy through resource saving practices. Also protect and conserve ecological systems.
- **Reduction of Carbon Footprint:** To reduce the institution's carbon footprint in the campus using various sustainable practices.
- Community Engagement: To promote every individual of campus and out of campus to take active participation in sustainability efforts, awareness of environment and environmental initiatives.

3. The Context:

Clean environment is an essential need of human health. The practice's primary goals are to raise consciousness, spread knowledge, foster concern for the environment and cultivate the abilities needed to address them. The preservation of plants diversity in today's time is taking the high importance. The urban region and natural landscaping of Jayawantrao Sawant Commerce and Science College which is a part of JSPM campus featuring environmental sustainability.

4. The Practice:

- The college has installed roof top solar PV plant of capacity 3 kWh for renewable energy.
- Restriction on the single use plastic is implemented in the campus.
- ➤ The college creates awareness about resources conservation.
- ➤ College has well maintained landscaped gardens in the campus.

- ➤ The Rain Water is used to increase the underground water level through rain water management.
- ➤ The Waste is segregated at source. Waste beans are located at various places.
- > The NSS activities inside as well as outside campus conducted for environmental initiatives.
- ➤ College has adopted energy efficiency measures like energy efficient LED fittings, usage of BEE STAR rated equipment, etc.
- ➤ College promotes usage of battery powered vehicles.
- > The institution hosts professional lectures, online webinars, workshops, and other events on a range of difficult topics.
- ➤ Every year external committee perform green audit, environment audit and energy audit at the college.
- ➤ Finding opportunities for energy saving and consumption reduction is the audit's main goal.

1. Evidence of the Success:

- Significant reduction in energy consumption due to the installation of solar panels, BEE STAR rated equipment and LED lightings.
- Rainwater harvesting systems have conserved millions of liters of water each year.
- > Recycling efforts have significantly reduced the volume of waste directed to landfills.
- ➤ Regular tree planting and the establishment of green spaces have enhanced campus biodiversity, resulting in a noticeable increase in the populations of local flora and fauna species.
- > Students and staff participation in sustainability programs and initiatives has increased.
- The ban on single use plastic inside the campus achieved the mark of cleanliness.
- ➤ The green, environment and energy audits successfully conducted in the college for energy saving and environmental awareness.
- ➤ Institute has been awarded a 4 Star Rating for their Efficient use of Energy in Educational Campus.

2. Problems Encountered and Resources Required:

- > Students as well as teaching and non-teaching staff are not having much more awareness about environmental issues.
- As the less awareness about these environmental issues, there are very less experts' people in this field to advice the importance of the nature and its environmental aspects.
- ➤ Maintenance cost of green campus initiative is expensive. As it needs extra manpower and resources on daily basis.

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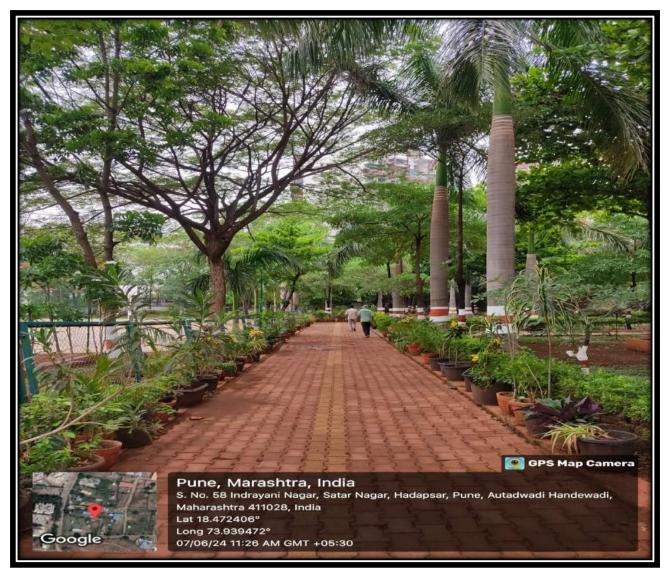
Photographs







Landscaping with Trees and Plants



Pedestrian Friendly Pathway

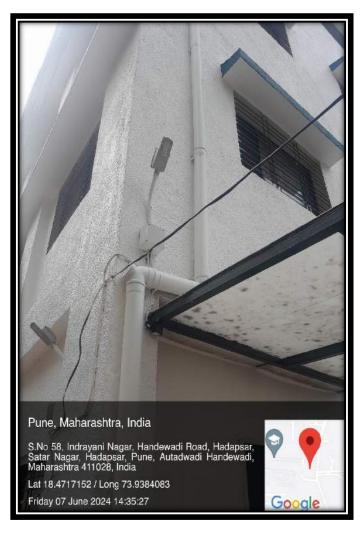








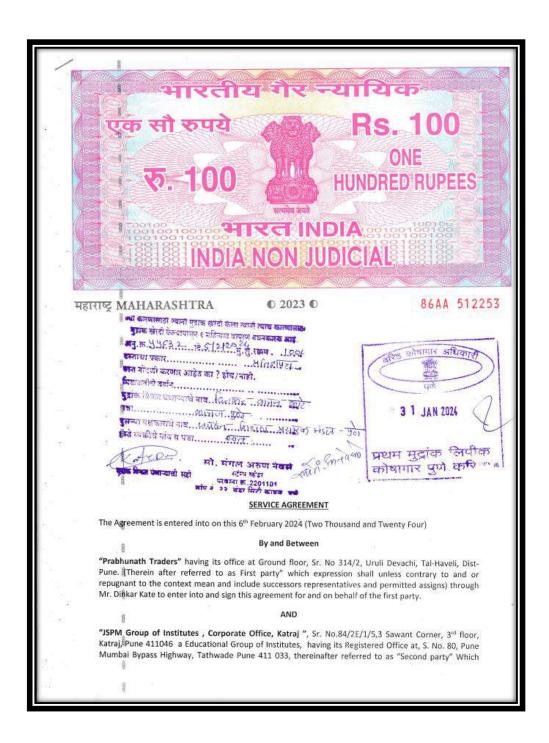
Plastic Ban Awareness





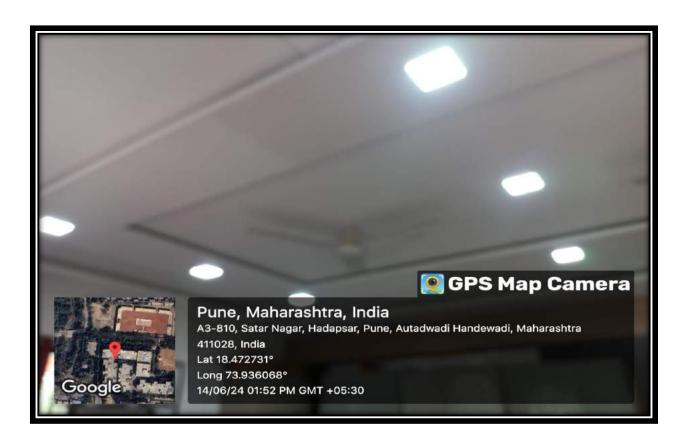


Rain Water Collecting Pipes



E-Waste MOU





Usage of LED lights





Usage of Bicycles & E-Vehicles







Usage of STAR Rated Equipment







Usage of Roof Top Solar PV Plant









Tree Plantation

ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: engress123@gmail.com MEDA Registration No: ECN/2022-23/CR-43/1709 ISO: 9001-2015 Certified (Cert No: 23EQKC1) ISO: 14001-2015 Certified (Cert No: 23EEKW20)

GREEN AUDIT CERTIFICATE

Certificate No: ES/JSCSC/22-23/02

Date: 10/7/2023

This is to certify that we have conducted Green Audit at Jayawant Shikshan Prasarak Mandal's Jayawantrao Sawant Commerce & Science College, Handewadi Road, Hadapsar, Pune, in the Academic year 2022-23.

The College has adopted following Green Practices:

- Usage of Energy Efficient LED Light Fitting
- Usage of BEE STAR Rated Energy Efficient Equipment
- > Maximum Usage of Day Lighting
- > Installation of Roof Top Solar PV Plant of Capacity 3 kWp
- > Segregation of Waste at source
- > Provision of Sanitary Waste Incinerator, for Disposal of Sanitary Waste
- Good Internal Road
- > Tree Plantation in the campus
- > Provision of Ramp for Divyangajan
- > Creation of awareness on Ban Single Use Plastic by Display of Posters

We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green.

For Engress Services,

Muhade A Y Mehendale,

B E- Mech, M Tech-Energy, Certified Energy Auditor, EA-8192 ASSOCHAM GEM Certified Professional: GEM: 22/788



ENGRESS SERVICES

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ENVIRONMENTAL AUDIT CERTIFICATE

Certificate No: ES/JSCSC/22-23/03

This is to certify that we have conducted Environmental Audit at Jayawant Shikshan Prasarak Mandal's Jayawantrao Sawant Commerce & Science College, Handewadi Road, Hadapsar, Pune, in the Academic year 2022-23.

The College has adopted following Environment Friendly Practices:

- Usage of Energy Efficient LED Light Fitting
- Usage of BEE STAR Rated Energy Efficient Equipment
- Maximum Usage of Day Lighting
- ➤ Installation of Roof Top Solar PV Plant of Capacity 3 kWp
- Segregation of Waste at source
- Provision of Sanitary Waste Incinerator, for Disposal of Sanitary Waste
- Tree Plantation in the campus
- Creation of awareness on Ban Single Use Plastic by Display of Posters

We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Eco Friendly

For Engress Services,

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B E- Mech, M Tech-Energy, Certified Energy Auditor, EA-8192 ASSOCHAM GEM Certified Professional: GEM: 22/788



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ENERGY AUDIT CERTIFICATE

Certificate No: ES/JSCSC/22-23/01

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The College has adopted Energy Efficient Practices

- Usage of Energy Efficient LED Fittings
- Usage of Energy Efficient BEE STAR Rated equipment
- Maximum usage of Day Lighting
- Installation of 3 kWp Roof Top Solar PV Plant

We appreciate the support of Management, involvement of faculty members and students in the process of making the Campus Energy Efficient.

For Engress Services,

A Y Mehendale.

B E-Mechanical, M Tech- Energy BEE Certified Energy Auditor, EA-8192

Mehandl





4 Star Rating Certificate

