



JAYAWANT SHIKSHAN PRASARAK MANDAL'S  
**JAYAWANTRAO SAWANT COMMERCE AND SCIENCE COLLEGE**

Sr. No. 58, Handewadi Road, Satavnagar, Hadapsar, Pune-411028

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Approved by Govt. of Maharashtra & Affiliated to SPPU, Pune-07

College Code: PU/PN/CS/485/2018



**PROF. DR. T. J. SAWANT**  
B.E. (Elec.), PGDM, PhD  
**Founder Secretary**

**Dr. Vinod R.Kulkarni**  
M.Com.M.A.MBA,M.Phil, PhD  
**Principal**

2.3.1 Student centric method such as experiential learning, participative learning and Problem solving methodologies are used for enhancing learning experiences and teachers use ICT-enabled tools including online resources for effective teaching and learning process.

### HEI Input:

Academic Year	2022-23	2021-22	2020-21	2019-20	2018-19
No. of Activity	13	11	-	2	2

Provided List of Activity conducted:-



  
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### INDEX

Sr. No	Learning Method	Name Of The Event	Subject	Year	Digital Page No.
1.	Problem solving	Debate competition	Microbiology	2022-23	4
	Problem solving	Scientific Survey	Microbiology	2022-23	5
	Participative learning	Research paper writing	Microbiology	2022-23	6
	Participative learning	Fermented food competition	Microbiology	2022-23	7
	Experimental learning	PDRC VISIT LONI	Microbiology	2022-23	8
	Experimental learning	Blood bank visit	Microbiology	2022-23	9
	Experimental learning	Science park visit	Physics	2022-23	10
	Experimental learning	Vasantdada sugar institute	Chemistry	2022-23	11
	Experimental learning	CMET	Chemistry	2022-23	12
	Participative learning	Science model making competition	Physics	2022-23	13
	Participative learning	Seminar on Scientist in Ancient India	Chemistry	2022-23	14
	Participative learning	Fundamentals of mathematics in computer programming	Mathematics	2022-23	15
	ICT Tools used				2022-23
2.	Experimental learning	Blood bank visit	Microbiology	2021-22	17
	Experimental learning	Industrial visit to wine Industry & KVK Baramati	Microbiology	2021-22	18
	Participative learning	Poster Competition	Chemistry	2021-22	19
	Experimental learning	Water Filtration plant visit	Microbiology	2021-22	20
	Experimental learning	Katraj Dairy visit	Microbiology	2021-22	20
	Experimental learning	Science park visit	Physics	2021-22	21
	Experimental learning	MASMA Solar expo visit	Physics	2021-22	21
	Participative learning	Poster competition	Chemistry	2021-22	22
	Participative learning	Quiz competition	Chemistry	2021-22	23
	Experimental learning	Vasantdada sugar institute	Chemistry	2021-22	24



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3.	Experimental learning	Cermet Resistronics Visit	Electronics	2021-22	25
	Participative learning	Fermented food competition	Microbiology	2019-20	26
	Experimental learning	Katraj Dairy visit	Microbiology	2019-20	27
4.	Participative learning	Quiz competition	Commerce	2018-19	28
	Participative learning	Microbiology Olympiad Competition	Microbiology	2018-19	29



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## STUDENT CENTRIC METHODS

Student centric methods are used in the institute to promote better teaching learning experience for the experience. There are various student centric approaches used for learning activities like participative learning, experiential learning, ICT tools and problem-solving methodologies.

### Participative Learning:

Under participative teaching learning methods, teachers use, Group Discussions, Presentations, debates etc to have a better learning experience among the students.

### Experimental Learning:

Under experiential learning, students are taken on industrial visits to various industries to have a practical knowledge of the theories learnt in the class rooms.



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**ACADEMIC YEAR 2022-2023**

**Problem Solving:-**

Problem solving is the act of defining a problem; determining the cause of the problem; identifying, prioritizing, and selecting alternatives for a solution; and implementing a solution.

Under Problem solving learning following programs were conducted

- Debate competition
- Scientific Survey

a. Debate competition: Students involves formal discourse, discussion, and oral addresses on a particular topic or collection of topics, often with a moderator and an audience



**Debate competition Student participated in Debate competition**



  
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**b. Scientific Survey:** A variety of methodologic approaches exist for students interested in conducting research. Selection of a research approach depends on a number of factors, including the purpose of the research, the type of research, questions to be answered, and the availability of resources.



**Scientific Survey**



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## Participative Learning:-

Under participative learning college has conducted following activities

### a. Research paper writing

### b. Fermented food festival

**a. Research paper writing:** A research paper is an academic document that involves deep, independent research to offer analysis, interpretation, and argument. Students of microbiology learn the method on how to write research paper



**Research paper writing**



  
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**c.Fermented food festival:** Fermented foods are defined as foods or beverages produced through controlled microbial growth, and the conversion of food components through enzymatic action. Students of microbiology actively participated in fermented food festival



**Fermented food festival Students explaining fermented food use**



  
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### Experiential Learning:-

Under Experiential learning following visits were conducted

- PDRC LONI visit
- Blood bank Visit
- Visit to Science Park
- Visit to Vasantdada Sugar Institute
- Visit to CMET

- PDRC LONI visit** : Students learn egg inoculation technique in Poultry diagnostic research center and the importance of this process in clinical research



Visit to PDRC LONI



Egg inoculation technique



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b. **Blood bank Visit:** This visit is under the syllabus of Diagnostic microbiology and Immunology students learn about blood bank instruments and practices aseptically followed there



Visit to blood bank



Faculty explaining students about blood bank instruments used



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**c. Visit to Science Park:** Students of F.Y visited science park to gain knowledge about Physics application and technology



**Science Park Visit**



  
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- a. **Visit to Vasantdada Sugar Institute:** The main purpose of Vasantdada Sugar Institute (VSI) visit was to observe the process undergoing in a VSI. The students got valuable information about- Media preparation, Process of fermentation. Preparation of different type of wines and beer.




Visit to Vasantdada Sugar Institute



Faculty explaining student about VSI



  
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- b. **Visit to CMET:** Centre for Materials for Electronics Technology (C-MET) is a research company based out of Panchawati, Off Pashan Road, Pune, Maharashtra, India. Students got information about electronic materials used there.



Visit to CMET



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## Participative Learning:-

Under participative learning college has conducted following activities

a. Model making competition

b. Seminar on scientist in Ancient India

c. Fundamentals of mathematics in computer programming

**a. Model making competition:** students of Physics actively participated in model making activity and presented application of various model



Model making competition



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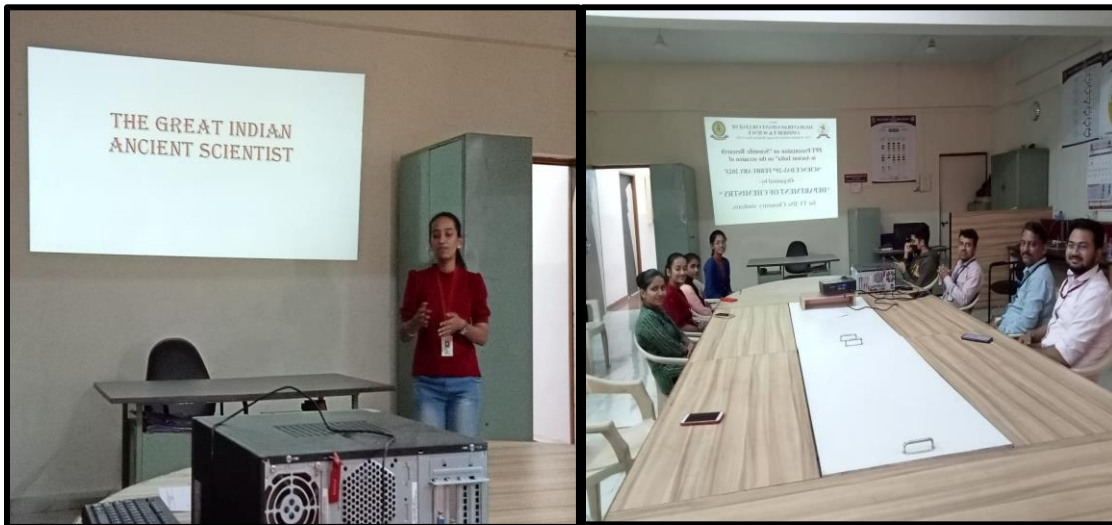
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- a. **Seminar on scientist in Ancient India:** Students of Chemistry department actively participated in Seminar and explained about the scientist of ancient India and their contribution.



Students giving presentation

Seminar on scientist in Ancient India



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- b. **Fundamentals of mathematics in computer programming:** students came to know about the use of mathematics in computer programming which boosted their knowledge regarding jobs in IT industries

15th  
March  
2023

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MATHEMATICS  
IN COMPUTER  
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for Science background  
students, it is essential to  
know various career  
opportunities In IT  
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**Fundamentals of mathematics in computer programming**



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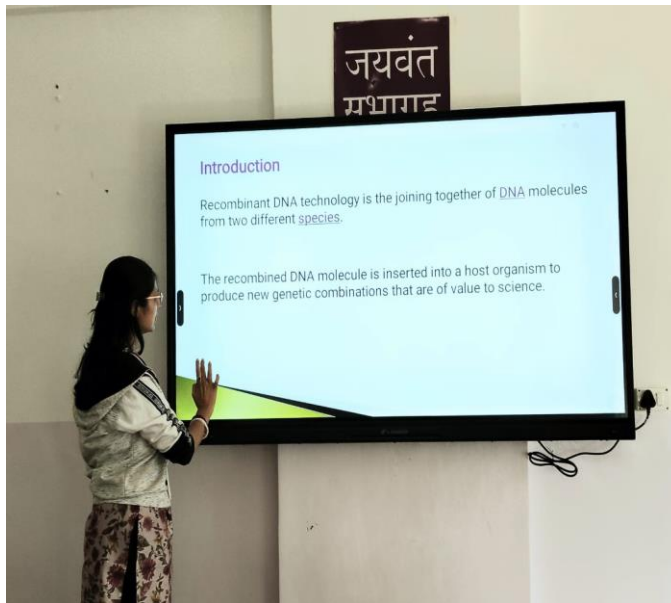
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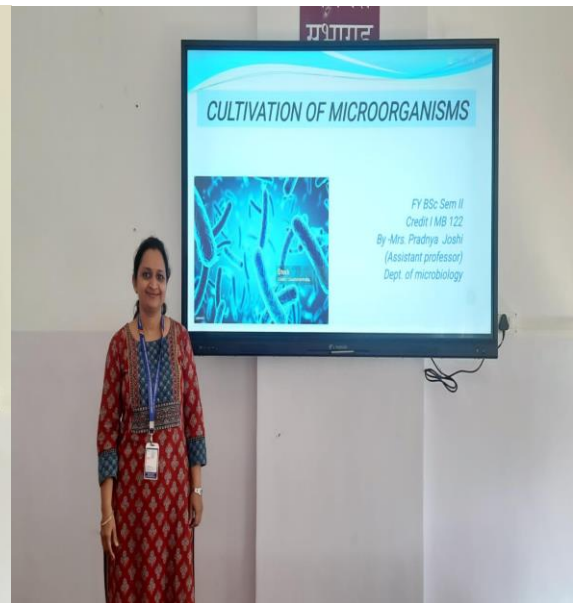
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## Teachers used ICT tools for effective teaching learning

The Institution uses a Learning Management System to facilitate the Teaching-Learning Process and to make the process more student's centric. To make the learning more efficient, all the teachers in the Institute use ICT in the classroom, with the help of presentations, or videos related to the topics.




RDT lecture using ppt on smart board



Microbiology lecture using ppt



  
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**ACDEMIC YEAR 2021-2022**

**Experiential Learning:-**

Under Experiential learning following visits were conducted

- Blood bank visit:
- KVK visit
- .NEERA valley grape wine industry visit

**a. Blood bank visit:** This visit is under the syllabus of Diagnostic microbiology and Immunology students learn about blood bank instruments and practices aseptically followed there




**Blood bank visit**



**Students gained blood bank knowledge**



  
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- KVK visit:** Field visit to the KVK's farm garden where students were able to witness the methods involved in organic farming and various traditional types of cultivation Mr. V. Muthu Kumar, Farm manager and Ms. N. Suganthi, subject matter specialist Soil Science accompanied students and explained in brief about the farm.
- Visit to NEERA valley:** Students got information about fermentation process for making wines in wine industry.



**b.KVK, Baramati Visit**



**c.Visit of students to NEERA valley grape wine Industry**



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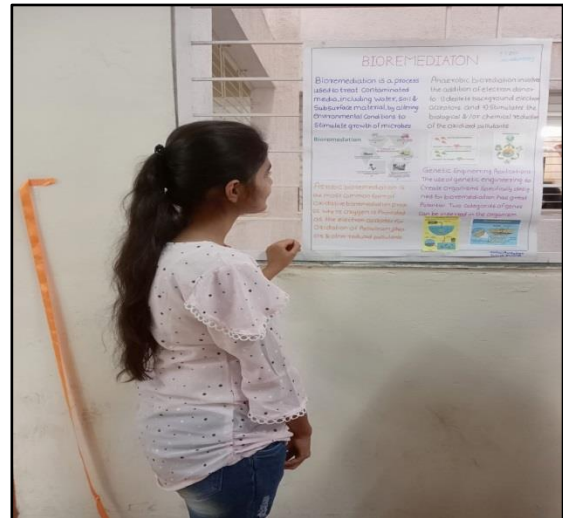
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**Participative Learning:-**

- a. Poster Competition:** The objective behind organization of poster making competition is to bring out the creative expression of students and to gauge their knowledge and awareness of various trends in Science. The aim of the Poster Making Competition is not just to judge the students based on their creative aspects but also to trigger thought process among the students towards recent trends in the field of Science.



**Poster Competition**



**Student Explaining Poster competition**



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## Experiential Learning:-

Under Experiential learning following visits were conducted

- c. Water filtration plant visit
- d. Katraj dairy Visit
- e. Visit to Science Park
- f. MASMA Solar Expo Visit

a. **Water filtration plant visit:** students of SY microbiology visited water purification plant parvati to understand the process of water filtration by the use of microorganisms

b. **Katrajdairy Visit:** Students of microbiology get knowledge about dairy industry and the role of microorganism in dairy products



a Water filtration plant visit



b Katraj dairy Visit



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**c. Visit to Science Park:** Students of F.Y visited science park to gain knowledge about Physics application and technology

**d. MASMA Solar Expo Visit:** MASMA is an association of the Solar PV and Solar water heater industry, Engaging the manufacturers, installers, and suppliers not only in Maharashtra but from various other states of India.



**c. Visit to Science Park**

**d. MASMA Solar Expo Visit**



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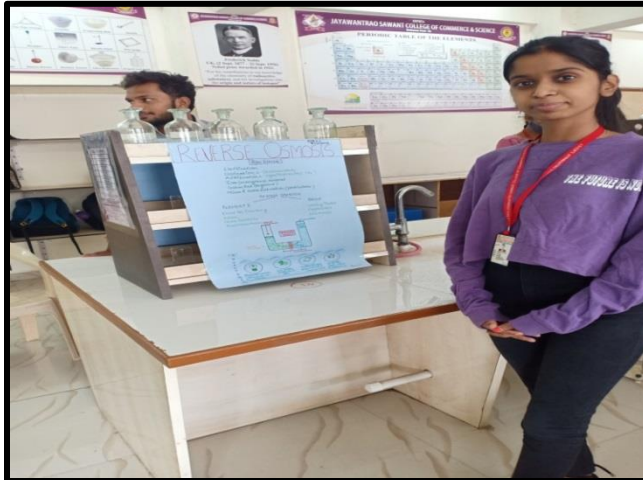
## Participative Learning:-

Under participative learning college has conducted following activities

### a. Poster Competition.

### b. Quiz Competition

**a. Poster Competition:** The objective behind organization of poster making competition is to bring out the creative expression of students and to gauge their knowledge and awareness of various trends in Science.




Poster presentation



Student with poster



  
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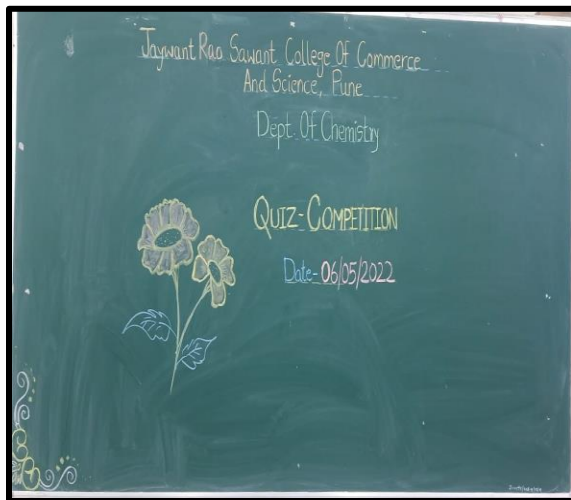
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**b. Quiz Competition:** Quiz competitions are an effective tool for enhancing students' critical thinking skills. By participating in a quiz competition, students can develop their analytical, creative, problem-solving, communication, and confidence-building skills



Quiz competition



Students participating in quiz



  
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## Experiential Learning:-

Under Experiential learning following visits were conducted

a. Visit to Vasantdada Sugar Institute


b. Cermet Restronics visit

a. **Visit to Vasantdada Sugar Institute** The main purpose of Vasantdada Sugar Institute (VSI) visit was to observe the process undergoing in a VSI. The students got valuable information about- Media preparation, Process of fermentation. Preparation different type of wines and beer.



Visit to Vasantdada Sugar Institute



  
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- b. **Cermet Restronics visit:** students of electronics got knowledge about High Value Resistors, Metal Glaze Resistors, Metal Film Fusible Resistors, Metal Oxide Resistors, Carbon Film Resistors, Thick Film Metal Oxide Resistors, Metal Film Resistors, Aluminum Housed Wire Wound Resistors, Wire Wound Resistors, and Fusible Wire Wound Resistor.



Cermet Restronics visit



  
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**ACADEMIC YEAR 2019-2020**

**Participative Learning:-**

**a. Fermented food festival:** Fermented foods are defined as foods or beverages produced through controlled microbial growth, and the conversion of food components through enzymatic action. Students of microbiology actively participated in fermented food festival.



**Students participated in Fermented food festival**



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## Experiential Learning:-

Under experiential learning, students are taken on industrial visits to various industries to have a practical knowledge of the theories learnt in the class rooms

**a. Katraj Dairy Visit :** Students of microbiology get knowledge about dairy industry and the role of microorganism in dairy products



**Katraj Dairy Visit**



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**ACADEMIC YEAR 2018-2019**

**Participative Learning**

Under participative teaching learning methods, teachers use, Group Discussions, Presentations, debates etc to have a better learning experience among the students.

Under participative learning college has conducted following activities.

a. Quiz Competition

b. Microbiology olympiad

- a. Quiz Competition:-** Quiz competition CONDUCTED UNDER Techmanthan 19, Students participated and quiz competitions are an effective tool for enhancing students' critical thinking skills. By participating in a quiz competition, students can develop their analytical, creative, problem-solving, communication, and confidence-building skills.



**Inauguration of Quiz Competition**



**Students participated in quiz competition**



  
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**b. Microbiology olympiad:** Department of microbiology conducted microbiology Olympiad

To enhance competitive alertness among the life science students. To involve budding microbiologists and biotechnologists in relevance and excitement of Microbiology and life Science



**Students participating in Microbiology Olympiad**



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