






**St. Joseph's College For Women (Autonomous)  
Visakhapatnam - 530004**

*(NAAC Reaccredited & ISO 9001:2015, 14001:2015 Certified)*



**2.3.1: Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experience and teachers use ICT – enabled tools including online resources for effective teaching and learning process.**

## **ADDITIONAL INFORMATION**

-  **Experiential Learning**
-  **Participatory Learning**
-  **Problem solving methodologies**
-  **ICT-Enabled Tools and Online Resources**

Teaching-learning process at St. Joseph's College for Women(A) is focused on the needs of the students. College adapts various student-centric teaching learning methods that empower students to learn independently. College integrates ICT enabled tools including online resources for effective teaching and learning process.

## STUDY TOURS

### HOME SCIENCE DEPARTMENT - STUDY TOUR REPORT (2022-2023)

A study tour was organized by the Department of Home Science to Ernakulam. As part of it students participated in 34<sup>th</sup> Biennial conference of Home Science Association of India (HSAI) which was held at St. Theresa's College, Ernakulam, Kerala. From the department 55 girls were taken escorted by 5 faculty members. The trip was 6 days long which was attending conference along with sightseeing. First 3 days students attended national conference and got exposed to latest research and development in the field. We also had an opportunity to see and meet stalwarts from the field. As part of sightseeing four places were covered Ernakulam, Kanthaloor, Munnar and Alleppey. Students enjoyed themselves a lot during the boat rides. Learnt a lot about local spices and fruits in the Botanical and flower gardens followed by visiting the top lemon grass hill viewpoint, a scenic hilltop and watch tower. Kanthaloor waterfall was visited which had a very adventures trek. In Kanthaloor (highest peak of south) students and faculty experienced tent stay with bonfire. Next destination was Munnar reached by bus with beautiful view of tea estates. Places visited in Munnar were Lakkum waterfalls, Mattupatti Dam and boat ride in botanical garden. After a night's halt the group proceeded towards Alleppey and saw beautiful backwaters followed by boat ride in beautiful Alleppey. On the same evening the group boarded the train for Visakhapatnam from Ernakulam. The trip was concluded on a happy and fulfilling note as Students and Faculties returned with a very happy and enriching experience.



## Field Trip – Department of Economics



### SKILL BASED INTERNSHIPS 2022-2023

S.NO.	ROLL.NO.	NAMEOFTHESTUDENT	TITLEOFTHEPROJECT
1.	20AH622	ANUPAMABISWAL	Inventory Management
2.	20AH623	KORIPELLA.ASHA.LATHA	Vouching
3.	20AH624	NEELAPUASHWINI	Marketing Audit
4.	20AH625	KOTNIBAASMINI	Tax Audit
5.	20AH627	M.DAKSHAYANI	Assessment of tax liability
6.	20AH628	NEELAPUDEEPTHSIAI	Fund flow statement
7.	20AH629	K DIKSHA	Income from capital gains
8.	20AH630	LENKAGAYATHRI	Consignment
9.	20AH631	VANAPALLIGEETHADEEPIKA	Recruitment
10.	20AH632	BANDARUHARSHITHA	Batch Costing
11.	20AH633	JHARANABEHERA	Cash flow statement(Fund)
12.	20AH634	SABBAVARAPUJYOSHNA	Consumer Behaviour
13.	20AH635	KAJOL	Hospital Audit
14.	20AH636	BOORALAKSHMISRAVANI	Supply chain analysis
15.	20AH637	LAXMI	Audit of partnership firm
16.	20AH638	KALEMLOCHANA	Audit of sole proprietor
17.	20AH639	MANASAGOWRICHADARAM	Activity based costing
18.	20AH641	MD.NASREENBEGUM	Job Costing
19.	20AH642	SESHAPURINAVYA	Vouching and Verification
20.	20AH643	NAZMAKHATOON	Stock Audit
21.	20AH644	NAZIRINSULTHANA	Sales Promotion
22.	20AH645	NAZIYAKHATOON	Bank Audit
23.	20AH646	BOTTANEELIMA	Income tax on Salaries
24.	20AH647	VADDADIPAVANI	Sales Process
25.	20AH648	PRATIBHAPRASAD	Marketing Strategy
26.	20AH649	PRIYATIWARI	Audit of Manufacturing
27.	20AH650	VOONAPRIYANKA	Advertisement and Analysis
28.	20AH651	SINGAMPALLIPURNIMA	Salaries and Incentives
29.	20AH652	DWARAMJAHNAVITEJASWINI	Audit on trust
30.	20AH654	SABIHASUKAINAMAZINDRANI	Internal Audit
31.	20AH655	SANGEETAKUMARI	Social Media Marketing
32.	20AH656	P.SARALADEVI	Income from Other Sources
33.	20AH657	T.SHINYNAVEEN	Financial Statement Analysis
34.	20AH658	A.SHRIYA	Company Audit
35.	20AH659	A.SHRUTI	Statutory Audit
36.	20AH660	GURUGUBELLISRAVANAJYOTHI	Accounting Policies
37.	20AH661	VECHALAPUSUNITHA	All Pricing Methods
38.	20AH662	JARJAPUSURYAKUMARI	Pricing Methods
39.	20AH663	KARIMIJJISWATHI	Income Statement
40.	20AH664	NAMMISWATHI	Valuation of Shares
41.	20AH665	MALLESWARAPUVASAVI	Marketing Analysis
42.	20AH666	PENTAKOTAYAMINI	Ratio Analysis
43.	20AH667	YERRAYASHASVI	Ratio Analysis



## MOCK -PARLIAMENT

The Department of Political Science at St. Joseph's College for Women, Visakhapatnam, organized a stimulating "Mock Parliament" event. Attended by enthusiastic students from the EEP and other groups, the event aimed to foster critical thinking, debate, and parliamentary procedures.

Participants delved into the roles of legislators, presenting and debating bills on pressing socio-economic and environmental issues. The atmosphere was charged with fervent discussions as students passionately defended their proposed policies and scrutinized those of their peers.

Through this simulation, students gained valuable insights into the complexities of the legislative process, negotiation, and compromise. The event not only honed their public speaking and analytical skills but also deepened their understanding of democratic governance.

Faculty members played pivotal roles as moderators, guiding students through the intricacies of parliamentary decorum and facilitating constructive discourse. The Mock Parliament served as a testament to the college's commitment to experimental learning and academic excellence.

Overall, the event was a resounding success, inspiring students to actively engage with real-world issues and empowering them to become informed, responsible citizens and future leaders in their respective fields.



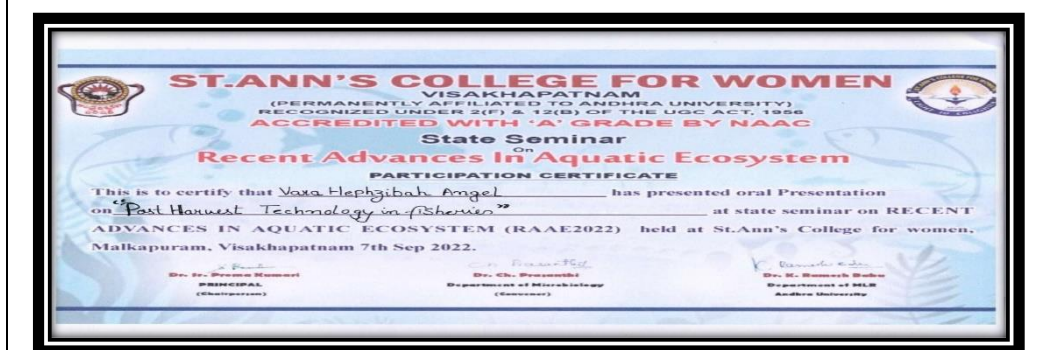


## STUDENT PARTICIPATION IN CONFERENCES/SEMINARS/WORKSHOPS

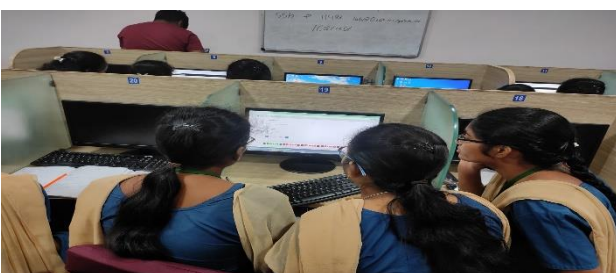
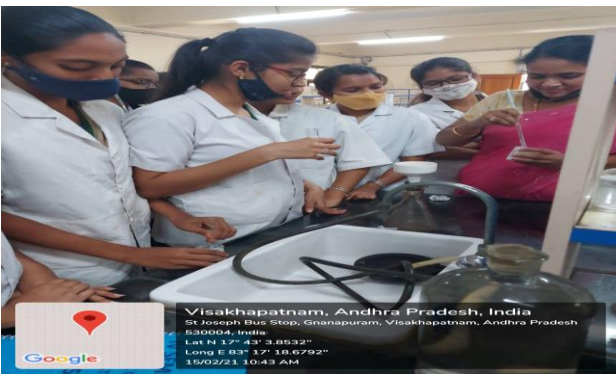
“Recent Advances in Aquatic Ecosystem”, organized by St. Ann’s College for Women, Visakhapatnam on 7th Sept 2022.

Three students of final CBZ, AH Batch- K. Shyamala, Vara Hephzibah Angel and Vandana Sri Poojitha participated in oral presentation at the Seminar on “Recent Advances in Aquatic Ecosystem”, organized by St. Ann's College for Women, Visakhapatnam on 7<sup>th</sup> Sept 2022.

1. K. Shyamala - “Sustainable Fishing Practices”.
2. Vara Hephzibah Angel - “Post-Harvest Technology in Fisheries”.
3. Vandana Sri Poojitha - “Value Added Products in Fisheries”



## Practicals – Hands-on learning



## **GROUP DISCUSSIONS CONDUCTED BY THE FACULTY IN THE CLASSROOMS**

Group discussions in classrooms serve several important purposes:

- **Enhanced Learning:** Group discussions encourage active participation and engagement among students. Through interactions with peers, students can gain different perspectives, clarify doubts, and deepen their understanding of the subject matter.
- **Critical Thinking:** Group discussions foster critical thinking skills as students analyse, evaluate, and synthesize information collectively. They learn to think critically about various viewpoints, arguments, and evidence presented by their peers.
- **Communication Skills:** Participating in group discussions helps students develop effective communication skills. They learn how to express their ideas clearly, listen actively to others, and engage in constructive dialogue. These skills are essential for academic success and future professional endeavours.
- **Collaboration:** Group discussions promote collaboration and teamwork among students. They learn how to work together towards a common goal, share responsibilities, and leverage each other's strengths to achieve better outcomes.
- **Confidence Building:** Engaging in group discussions provides students with opportunities to express themselves in a supportive environment. As they contribute to discussions and receive feedback from peers and teachers, their confidence in expressing their ideas and opinions grows.
- **Social Skills Development:** Group discussions allow students to interact with their peers in a structured setting, which helps in developing social skills such as empathy, respect for others' opinions, and conflict resolution.
- **Active Learning:** Group discussions promote active learning by encouraging students to actively participate and apply what they have learned in real-time discussions. This active engagement enhances retention and understanding of the subject matter.
- **Diversity of Perspectives:** In a group setting, students bring diverse backgrounds, experiences, and viewpoints to the discussion. This diversity enriches the learning experience by exposing students to different perspectives and ways of thinking.



- Confidence Building
- Active Learning
- Communication skills



**Year: 2022**

**Group: BA EPO**

**Subject: Human Resource Management**

**Topic: Collective Bargaining**

**No. Of Participants: 20**

Collective bargaining is a process through which employers negotiate with labor unions representing a group of employees to determine the terms and conditions of employment. This negotiation typically covers wages, working hours, benefits, and other aspects of the working environment.

It's an essential mechanism for balancing the power dynamics between employers and employees, ensuring that workers have a voice in decisions that affect their working lives. Through collective bargaining, both parties seek to reach a mutually beneficial agreement that addresses the needs and interests of both labour and management.

Collective bargaining can take place in various industries and sectors, and the resulting agreements, known as collective bargaining agreements (CBAs), govern the employment relationship for the covered workers. These agreements often include provisions for dispute resolution mechanisms and procedures for handling grievances.

While collective bargaining is common in many countries and industries, its prevalence, legal framework, and effectiveness can vary significantly depending on factors such as labour laws, the strength of labour unions, and the overall economic and political context.



**Year: 2023**

**Group: BSc Agriculture**

**Subject: Eco Physiology**

**Topic: Water Pollution causes soil infertility**

**No. Of Participants: 30**


Water pollution can indeed have a significant impact on soil fertility. When pollutants from contaminated water sources seep into the soil, they can disrupt its natural composition and fertility. Here's how:

1. **Chemical Contamination:** Chemical pollutants from industrial waste, agricultural runoff, and improperly disposed-of household chemicals can contaminate water bodies. When these pollutants reach the soil through runoff or infiltration, they can alter its pH levels and nutrient balance, making it unsuitable for plant growth.
2. **Heavy Metals:** Heavy metals like lead, mercury, cadmium, and arsenic are often found in industrial effluents and can persist in water bodies for a long time. When these metals infiltrate the soil, they can accumulate in plant tissues, inhibiting growth and causing toxicity. Additionally, they can disrupt soil microbial communities crucial for nutrient cycling and plant health.
3. **Nutrient Imbalance:** Water polluted with excessive nutrients like nitrogen and phosphorus (commonly found in agricultural runoff and untreated sewage) can lead to nutrient imbalances in the soil. While initially, this might lead to increased plant growth, it can eventually deplete the soil of essential nutrients, leading to infertility and reduced crop yields.
4. **Organic Contaminants:** Organic pollutants such as pesticides, herbicides, and petroleum products can also leach into the soil from contaminated water sources. These chemicals can harm soil microorganisms, essential for nutrient cycling, and can also disrupt plant metabolism, leading to reduced fertility.
5. **Salinization:** Water pollution can also contribute to soil salinization when saline or brackish water infiltrates the soil. High salt concentrations can hinder plant growth by causing water stress and disrupting nutrient uptake mechanisms.



# Self-learning through MOOCs, Swayam, LMS Courses and NPTEL Courses


PROMOTES SELF LEARNING THROUGH MOOCs, SWAYAM, LMS COURSES AND NPTEL COURSES  
BY GIVING EXTRA CREDITS



**Elite**

## NPTEL Online Certification

(Funded by the MoE, Govt. of India)




This certificate is awarded to  
**THUMMU SRAVANI**  
for successfully completing the course  
**Technologies for Clean and Renewable Energy Production**

with a consolidated score of **60** %

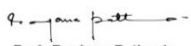
Online Assignments	21.25/25	Proctored Exam	39/75
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Total number of candidates certified in this course: **579**




**Prof. Kaushik Ghosh,**  
Professor (Chemistry)  
Coordinator CEC


**Jul-Sep 2023**  
(8 week course)



**Prof. Ranjana Pathania,**  
Professor (BSBE)  
Coordinator (NPTEL)




Indian Institute of Technology Roorkee




FREE ONLINE EDUCATION  
**swayam**  
Digital India, Skill India

Roll No: NPTEL23CH73S34262349


To verify the certificate 

No. of credits recommended: 2 or 3



## NPTEL Online Certification

(Funded by the MoE, Govt. of India)




This certificate is awarded to  
**MRUDULA STAMA**  
for successfully completing the course  
**Retail Marketing Strategy**

with a consolidated score of **57** %

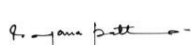
Online Assignments	19/25	Proctored Exam	37.5/75
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Total number of candidates certified in this course: **747**




**Prof. Kaushik Ghosh,**  
Professor (Chemistry)  
Coordinator CEC


**Jul-Sep 2023**  
(8 week course)



**Prof. Ranjana Pathania,**  
Professor (BSBE)  
Coordinator (NPTEL)




Indian Institute of Technology Roorkee



FREE ONLINE EDUCATION  
**swayam**  
Digital India, Skill India

Roll No: NPTEL23MG100S34262248

To verify the certificate 

No. of credits recommended: 2 or 3

# INTERSHIPS AND PROJECT WORK ENDURE HANDS-ON LEARNING

## CHEMICAL AND MICROBIOLOGICAL ANALYSIS OF POTABLE AND WASTE WATER

A Thesis Submitted to the Department of Biotechnology, in accordance  
with APSCHE



Submitted by

Hazira Tasneem.Mir  
20AH 971  
3<sup>rd</sup> B.Sc. BBC

Under the Guidance of MR. K. SRINIVAS  
(Lab In-charge)

S.V. ENVIRO LABS AND CONSULTANTS

FACILITATOR : Dr. A. Veerabrahmam,  
HOD, DEPARTMENT OF BIOTECHNOLOGY.

ST. JOSEPH'S COLLEGE FOR WOMEN (A)  
GNANAPURAM, VISAKHAPATNAM – 530004.  
Reaccredited by NAAC & ISO 9001: 2015 Certified Institution  
2022®



## Official Certificate

This is to certify that **Ms. Hazira Tasneem .Mir** bearing **Roll No. 20AH 971** has completed her internship in **S.V. Enviro labs and Consultants** on **Analysis of Potable and Waste Water** under my supervision as a part of partial fulfilment for the Requirement for the Bachelors Degree in Science at **St. Joseph's College for Women**. This is accepted for Evaluation.

*This project report is Valid .*



### Endorsements



Faculty Guide

*Mia Conducted*

*A. V. Bunder*  
17/4/2023

Head of the Department

Head of the Department

Department of Biotechnology

St. Joseph's College for Women (Autonomous)  
VISA KHAPATNAM-530004

*Gm*  
19/4/23

*S. Shyji*

Principal

St Joseph's College  
For Women  
VISA KHAPATNAM

## CERTIFICATE FROM INTERN ORGANIZATION



**“ISOLATION AND MOLECULAR CHARACTERIZATION OF  
AMPICILLIN RESISTANT BACTERIA FROM SOIL SAMPLE AND  
DETAILED STUDY ON PLANT GROWTH PROMOTING ACTIVITY”**

**Internship Report Submitted to the Department of Biotechnology,  
in accordance with APSCHE**



Submitted by  
**B. Sanju Priya**  
(20AH972)  
3<sup>rd</sup> B.Sc., BBC

Under the Guidance of  
**Dr. Jogeswar Gadi, M.Sc., Ph.D.,**  
Shri Joshika Molecular Diagnostics and Research Centre,  
Ramnagar, Visakhapatnam.



**Facilitator : Dr. A. Veerabrahmam**  
Head, Department of Biotechnology

**ST. JOSEPHS COLLEGE FOR WOMEN (A)**  
**GNANAPURAM, VISAKHAPATNAM - 530004.**  
Reaccredited by NAAC & ISO 9001:2015 Certified Institution

2022\*

## Official Certificate

This is to certify that **Ms. B. Sanju Priya** bearing Roll No. 20AH972 has completed her internship in **Shri Joshika Molecular Diagnostics and Research Centre** on **Isolation of molecular characterization of ampicillin resistant bacteria from soil sample and detailed study on plant growth promoting activity** under my supervision as a part of partial fulfillment for the Requirement for the Bachelors Degree in Science at St. Joseph's College for Women. This is accepted for Evaluation.

 13/4  
(Signatory With Date and Seal)

Dr. GADI JOGESWAR, M.Sc. PH.D.  
Director  
Shri Joshika Molecular Diagnostics and Research Centre  
# 1C-50-2/2, Deepthi Paradise,  
Adjacent All Saints English Medium School,  
Ramnagar, Visakhapatnam-530 005


**Endorsements**

**Faculty Guide**



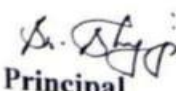
Una Conducted  
On

**Head of the Department**

 15/4  
Head of the Department  
Department of Biotechnology  
St. Joseph's College for Women (Autonomous)  
VISAKHAPATNAM-530004

19/4/23

**Principal**

  
St. Joseph's College  
For Women  
VISAKHAPATNAM



## Shriyoshika Molecular Diagnostic and Research Centre

10-50-2/2, Deepthi Paradise, Adjascent All Saints English Medium School  
Ramnagar, Visakhapatnam-530 003, A.P, Ph: +91-9989909456/+91-8341783363

**Dr. Gadi Jogeswar, M.Sc., Ph.D**

Director, SMDRC

### CERTIFICATE

This is to certify that the thesis entitled "*Isolation and molecular characterization of ampicillin resistant bacteria from soil samples and detailed study on plant growth promoting activity*" is an original research work submitted for the degree of B.Sc., at St.Joseph's college for women, Visakhapatnam. This work was carried out by **MS.B. Sanju Priya (Reg.No.20AH972)** under my guidance and supervision. The assistance and help taken during the course of the investigation and source of literature, materials and methods has been duly acknowledged by her. The duration of this project from *1<sup>st</sup> September 2022 to 10<sup>th</sup> December 2022. The overall performance of the intern during her internship was found to be satisfactory.*

Date: 8/4/23

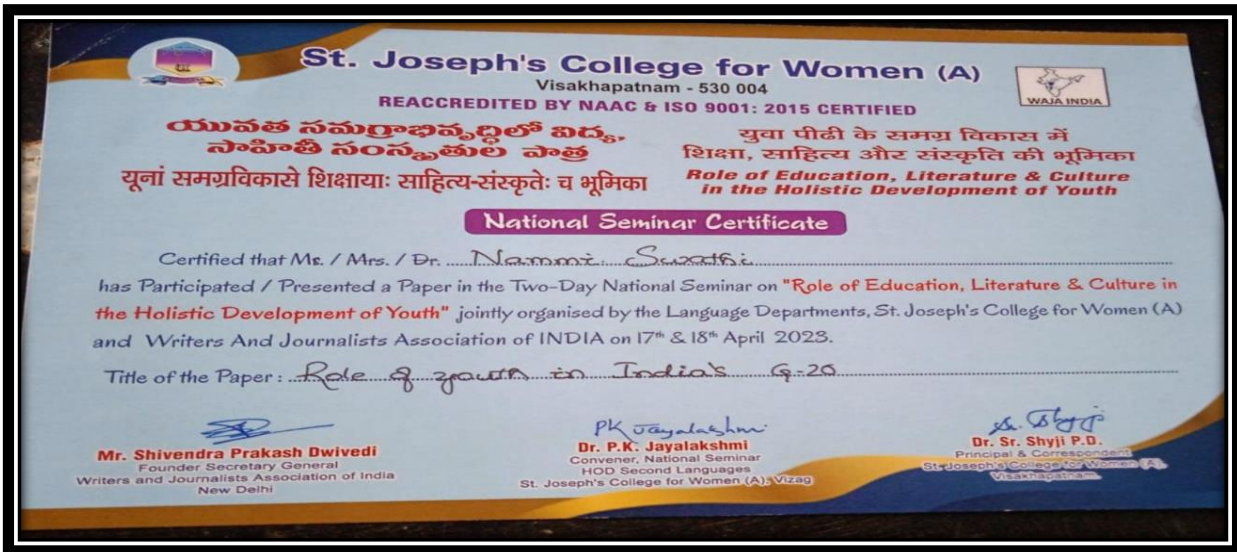
  
(Gadi Jogeswar)

**Research Director**

Dr. GADI JOGESWAR, M.Sc. Ph.D.,  
Director

Shriyoshika Molecular Diagnostics and Research Centre  
# 10-50-2/2, Deepthi Paradise,  
Adjacent All Saints English Medium School,  
Ramnagar, Visakhapatnam-530 003.

## Participative Learning through Conferences/seminars/workshops



## Participation in club activities to enrich their leadership qualities

### "QUIZBUZZ":

In this activity questions related to current affairs and general knowledge posed to students and observed active participation from students.



### Logo Making:

The activity involves designing a logo that suits the purpose of the club i.e. basically anything related to computer science and technology.



**Borahae BTS:**

It is a fun-filled activity that has various rounds involving different kinds of questions regarding BTS.



**Cereal Ganesh a Making:**

This activity is conducted on the occasion of Ganesh Chaturthi. Participants need to make Ganesh art with pulses and cereals.





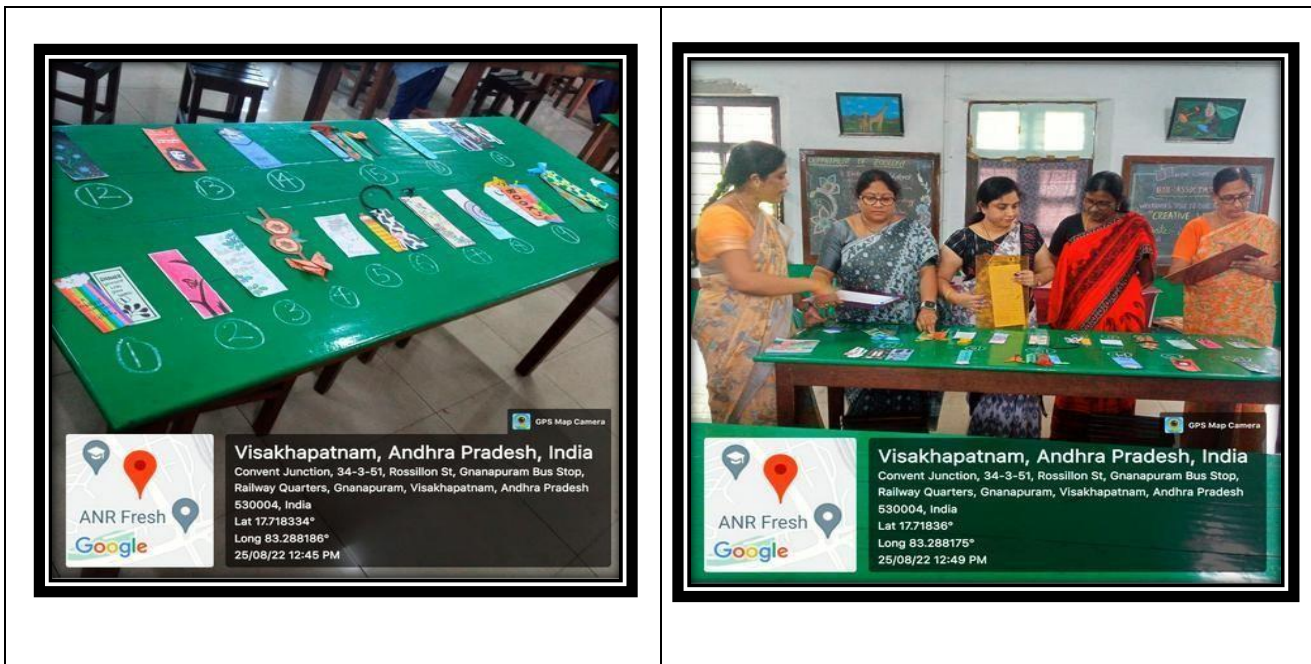
### Word Cloud:

It is an online activity conducted to celebrate WORLD TECHNOLOGY DAY. It involves designing a word cloud with all the technological words. Words may include blockchain, twitter, cloud computing etc.

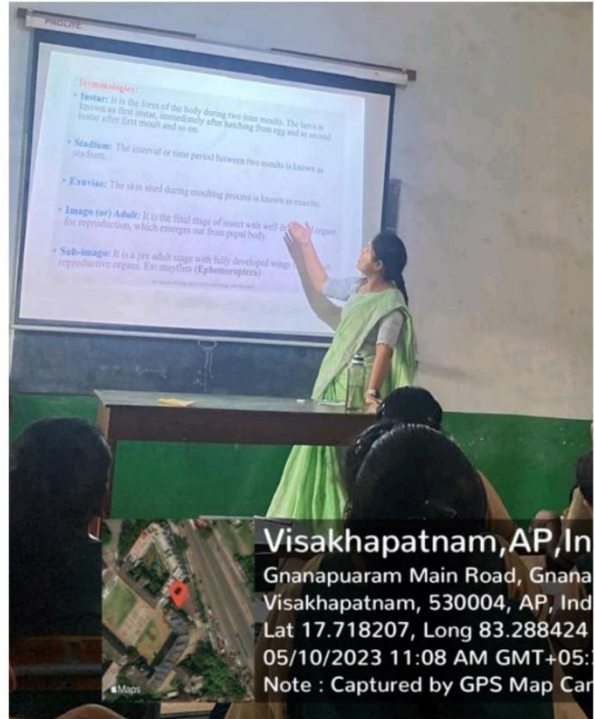


### CREATIVE WORMS:

In this activity an individual is asked to prepare an Ecofriendly bookmark. Those Bookmarks which are ecofriendly will be given prize



## ICT TOOLS USED BY THE FACULTY



## SOW e LEARN

St. Joseph's Open Web-based e Learning Platform launched and offers courses in the 4-quadrant style through a freely downloadable application as well as Google chrome.

Web link: <https://sjcwllms.stjosephscollegevisakhapatnam.ac.in/>

The image displays six screenshots arranged in a 3x2 grid, showcasing the SOW e LEARN platform and its content:

- Top Left:** A screenshot of the SOW e LEARN website homepage. It features a navigation bar with 'Home', 'Courses', 'Sign Up', and 'Log In'. The main heading is 'Start learning from best platform' with a search bar. Below, there are three key features: '16 Online courses', 'Expert instruction', and 'Lifetime access'. A large image of a college building is visible in the background.
- Top Right:** A video player interface for a course titled '1.2.2.5.6 - Reciprocal Cones' in Mathematics. The video is presented by Dr. Capt. K. Sujatha, an Assistant Professor at St. Joseph's College for Women (A), Visakhapatnam. The video player shows a progress bar at 0:22 / 24:55.
- Middle Left:** A screenshot of the 'All courses / All category' page. It lists various course categories such as 'Dept of English', 'Dept of Hindi', 'Dept of English', 'Dept of Psychology', and 'Dept of Journalism & Mass Communication'. Each category has a corresponding number of courses listed.
- Middle Right:** A video player interface for a course titled 'Evolution by Dr. Rosina.m4v' in Zoology. The video is presented by Dr. P. Rosina George M.Sc, Ph.D, an Assistant Professor in Zoology at St. Joseph's College for Women (A), Visakhapatnam. The video player shows a progress bar at 0:27 / 22:30.
- Bottom Left:** A screenshot of a video player showing a lesson titled '1.2.2 Scrodinger Equation Quantum Mechanical Model of Atom SJC'. The video is presented by Dr. P. Sarada, an Assistant Professor in Chemistry at St. Joseph's College for Women (A), Visakhapatnam. The video player shows a progress bar at 0:19 / 24:50.
- Bottom Right:** A screenshot of a video player showing a lesson titled 'Lesson: Schrodinger Equation & Quantum Mechanical Model of Atom'. The video is presented by Dr. P. Sarada, an Assistant Professor in Chemistry at St. Joseph's College for Women (A), Visakhapatnam. The video player shows a progress bar at 0:11 / 15:41.

## Library – e-resources

- The college has a Subscription to N-List E – resources which are a part of e-Shodhsindhu consortium of Inflibnet. Our college ranked seventh among the top 10 college users in April 2024.
- A cyber café with 16 systems with a speed of 100 mbps, accessible to students and staff during college library working hours.
- In 2020-2021 college has taken NDLI memberships and launched the NDLI club in the college. Access to innumerable digital resources is facilitated to faculty and students.
- Subscription to N-List E-resources which is a part of e-Shodhsindhu consortium of Inflibnet. N-List enables students to gain access to a vast repository of e-resources including books, Journals, dissertations and conference proceedings.

