

St. Joseph's College of Education for Women

Opp. Sambasivapet 2nd Lane, Naaz Center, GUNTUR, A.P., INDIA.
(Under the Management of Society of Jesus Mary & Joseph)



7.1.2

Documentary Evidence in Support of the Claim



T. Swarnapalani
PRINCIPAL
ST. JOSEPH'S COLLEGE OF EDUCATION
FOR WOMEN
GUNTUR-522 001., A.P

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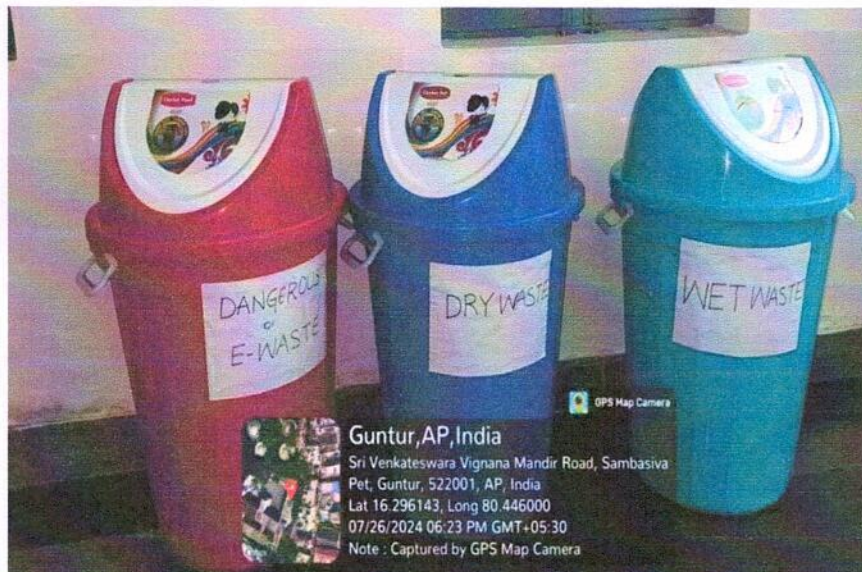
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Segregation of Waste

Waste segregation is the process of separating waste into different categories based on its type, composition, and potential for recycling or disposal. This essential practice is the cornerstone of our institutions effective waste management, as it enables us for the efficient processing, recycling, and disposal of waste materials. By properly segregating wastes, we are reducing the environmental impact, conserve resources, and promote public health.

The wastes generated in the premises is segregated into **bio-degradable and non-biodegradable** wastes. Bio degradable waste like fallen leaves, kitchen waste etc. are put into the compost pit and converted to compost, compost is used to grow plants in our campus. The SJCE campus maintains different colored dustbins with clear labels and color codes to indicate the type of wastes and encourage the staff and students to sort their waste and proper disposal. Our supportive staff regularly monitor waste segregation practices.

The use of **different colors** of dustbins is part of a waste segregation system designed to make it easier to separate different types of waste for recycling and proper disposal. Each color typically represents a specific category of waste, ensuring that materials are disposed of correctly and is processed accordingly



Separate dustbins for Bio degradable and Non-biodegradable wastes are placed in the college premises

Different colors of dust bins are used for different waste materials



Red is used for E Waste Material

Blue is used for Dry Waste

Green is used for Wet waste



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Collection of Dry Waste by GMC

Waste management is a crucial function of urban governance, and the Guntur Municipal Corporation (GMC) plays a substantial role in ensuring the cleanliness and hygiene of our campus through its waste collection services. All the wastes collected in the campus are brought to the common point in separate dustbins which are duly disposed of by the local municipality where the GMC's waste collection system collects everything efficiently to reduce environmental impact, and promote the health of the people living in the campus and public in general.

Waste Collected by Guntur Municipal Corporation A.P



The **impact of effective waste segregation** required awareness, infrastructure, and community participation. When practiced consistently, it is leading to a cleaner, healthier environment and a more sustainable future for all. We vow to continue the practice and to make our campus best place for all to live and breathe healthily.

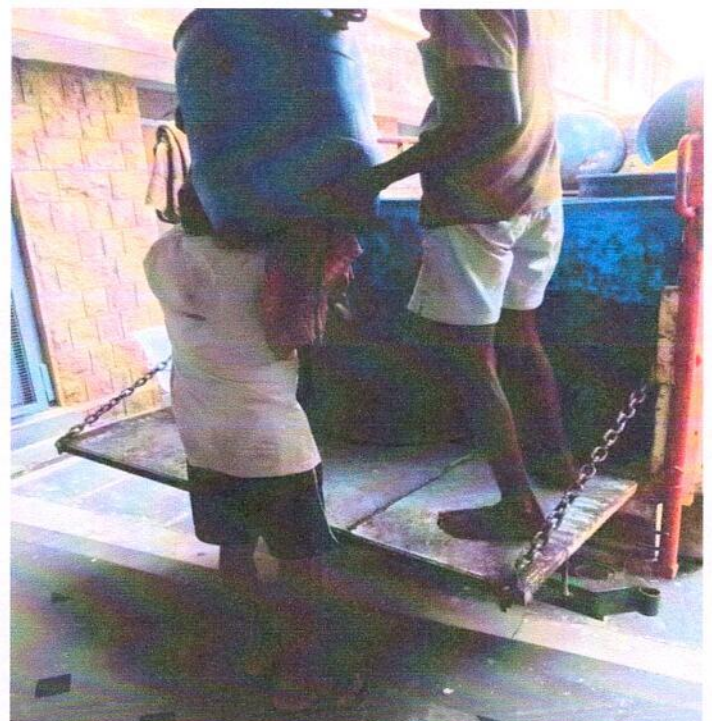


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Collection of Wet Waste by GSR Dairy Farm

Wet waste is an organic waste that is typically biodegradable and includes items such as food scraps, vegetable peels, fruit rinds, and other leftover organic materials. Unlike dry waste, wet waste decomposes naturally and is used in various environmentally friendly ways. We have made a MOU with Gogineni Sambasiva Rao Dairy Farm who has implemented an effective and sustainable waste management system, particularly in handling wet waste. Wet waste, such as leftover food, and other biodegradable materials from the hostel, is collected regularly from the campus by them.

They are utilizing this organic waste as feedstock for their livestock, especially cattle. This not only helps in reducing the waste that would otherwise end up in landfills but also provides a cost-effective and nutritious supplement for the animals. Any excess wet waste that is not collected is composted. The composting processes this waste into a rich organic fertilizer, which is then used to our garden, to enhance the soil quality in the campus. This practice contributes to a closed-loop system where waste is recycled back into the environment in a beneficial way.



Collection of the leftover food materials from St. Joseph's B. Ed hostel by GSR Dairy Farm



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Recycling Initiatives

Recycling initiatives are an essential efforts of our College aimed at reducing waste and conserving resources by reusing materials that would otherwise end up in landfills. Our initiatives include paper recycling, which saves trees and energy; plastic recycling, which minimizes pollution and conserves raw materials; e-waste recycling, which safely disposes of hazardous electronic waste while recovering valuable components; and organic waste recycling, which converts food and yard waste into compost, enriching the soil and reducing greenhouse gas emissions. These initiatives are vital for promoting environmental sustainability and creating a cleaner, healthier planet.

❖ Paper recycling

Paper recycling is done that involves reprocessing used paper products like newspapers, office paper, and cardboard to create new paper. As this practice helps conserve trees, reduces energy consumption, and minimizes the amount of waste sent to landfills, we not only save valuable natural resources but also decrease greenhouse gas emissions, contributing to a more sustainable environment. In SJCE we have collected and given away the recyclable waste including any kind of paper waste and old records generated in the college and handed over to Sri Lakshmi Paper Mart, Chowtra Centre, Guntur, a way to reduce our ecological footprint and promote environmental responsibility



Handing over the paper waste for recycling



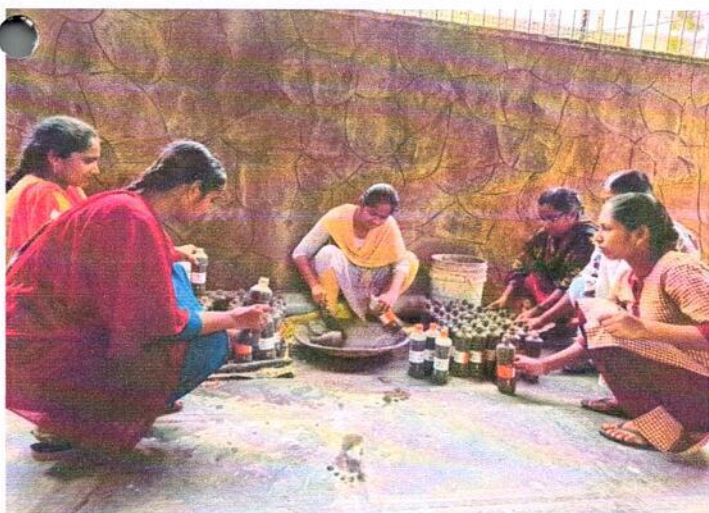
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Paper waste including cardboard boxes are handed over to Sri Lakshmi paper Mart for recycling



❖ Plastic recycling

Plastic recycling is a vital environmental initiative which we focus on to collect and reprocess used plastics, such as bottles, containers, and packaging, to create new products. This process helped us to reduce the demand for new raw materials, conserves energy, and significantly cuts down on plastic pollution, which is a major threat to ecosystems worldwide. By recycling plastic, we helped decrease the amount of waste in landfills and oceans, promoting a cleaner, healthier planet.



T. Swarnapriya
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Re-use of Water Bottles for constructing Garden structures

We trained our students to re-use waste bottles in a productive way which otherwise causes landfills and damage to the mother earth. The students using sand, cement and water used these waste bottles in to a beautiful structures that save the purpose of beautifying the garden. The water bottles are used as a bricks for our garden.



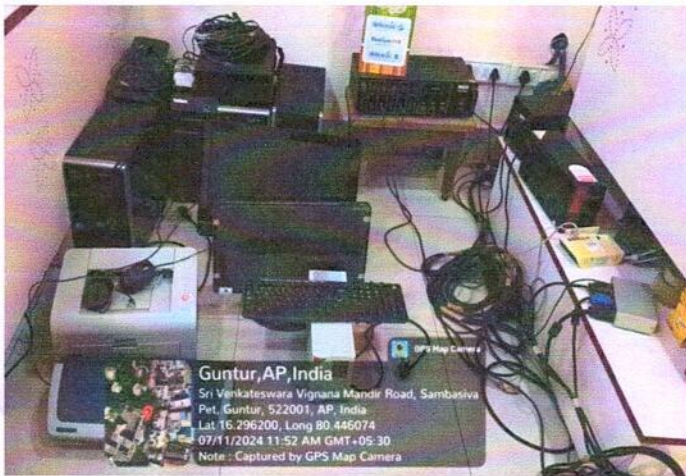
Putting up a beautiful structure with the guidance of their mentors



T. InvarupaRani
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❖ E- Waste Management

E-waste management involves the responsible handling, disposal, and recycling of electronic waste, such as old computers, Accessories, and electronic appliances. With the rapid pace of technological advancement, e-waste is accumulating at an alarming rate. At St. Joseph's we feel the responsibility for effective e-waste management which ensures that these toxic materials are safely removed, while valuable components like metals are recovered for reuse. Therefore proper e-waste management is done at SJCE to minimize the environmental pollution and to promote sustainable practices in the tech industry. From SJCE campus the collected E-Waste material like old computers, air conditioner, Refrigerators, laptops, printers, are handed over to reboot sustainable life styles for recycling the E-Waste.



Recyclable waste of electronic waste and old computers are handover it over for Re-cycling.



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❖ Organic Waste Management

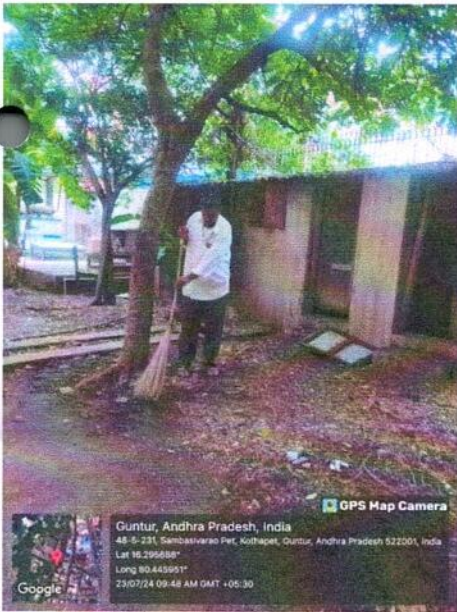
Organic waste management involves the responsible collection, processing, and disposal of biodegradable waste, such as food, fruit & vegetable scraps, garden trimmings, and plants residues. We collect these wastes and convert into valuable products like compost and enrich the soil with nutrients. Our organic waste management plays a key role in promoting sustainability, in the campus reducing environmental impact, and supporting a circular economy where waste is transformed into a resource.



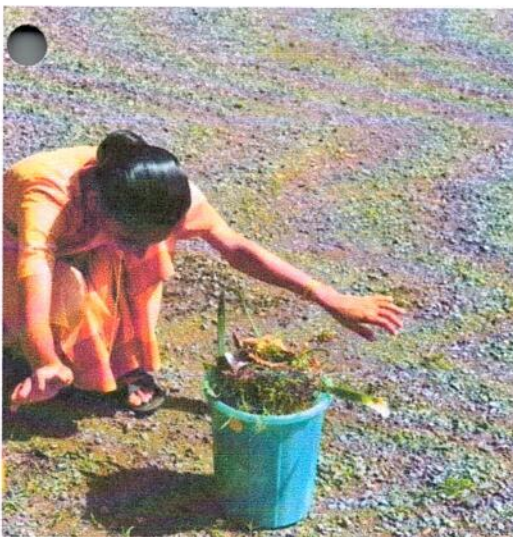
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❖ Composting Units

We have the composting unit in which we involve the students and attenders to oversee the process of converting the collected organic waste, such as food scraps and yard trimmings, into nutrient-rich compost. Students take utmost care in managing the factors like temperature, moisture, and aeration, through which the compost efficiently break down biodegradable materials, reducing waste and producing valuable soil amendments. The same thing is used for the plants in our garden, ensuring that the composting process is quick and effective, maximizing the quality of the finished compost. This practice not only teaches our students to divert waste from landfills but also enables them to support sustainable gardening.



The scraps of the campus is collected and put in the compost for the decomposition



P. Swarghani
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Care is taken to maintain proper factors like temperature, aeration, and moisture, through which the compost efficiently breaks down into biodegradable materials, reducing waste and producing valuable soil amendments. The same is used for the plants in the campus as a best nutrients.



P. Swarna Rani
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Hazardous Waste Management

Hazardous waste management involves the careful handling, treatment, and disposal of **chemical waste** materials that pose a risk to human health or the environment, such as chemicals used in the science lab, batteries, and other wastes. In SJCE, we take utmost care to process and identify the hazardous substances, storing them safely, and using specialized methods like digging a pit and disposing them, also neutralize them to prevent contamination. By managing hazardous waste responsibly, we take care to minimize its impact and contribute to a safer, cleaner environment. We did place the posters for the **safety measures** in the lab with the necessary information for the safety and prevention of any hazardous taking place.

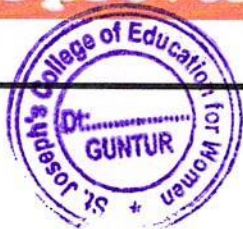
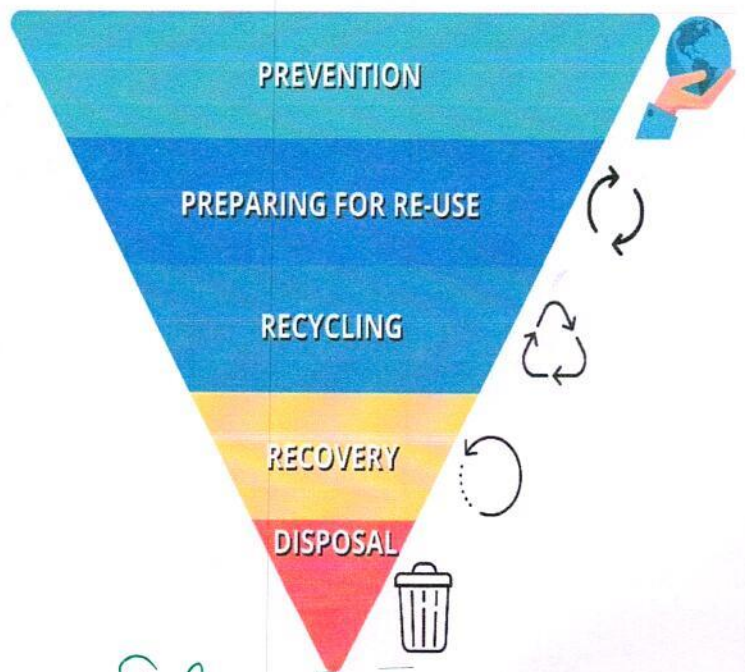
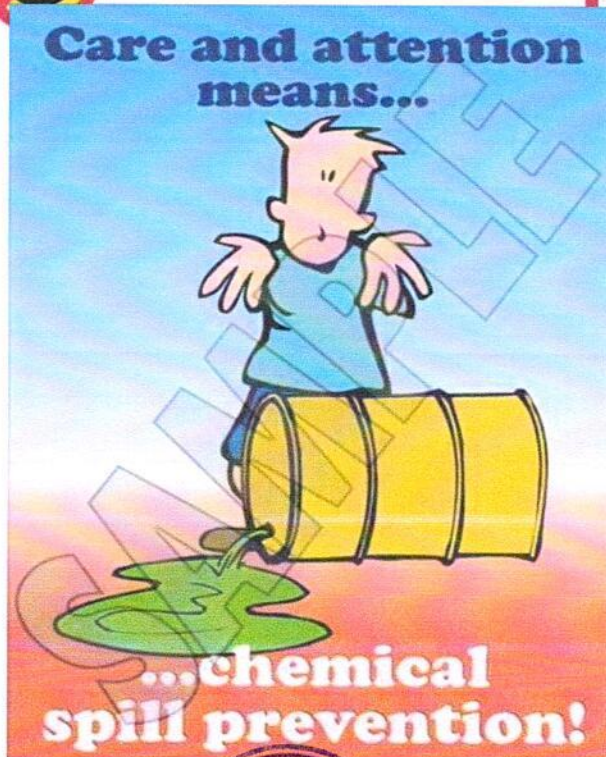
INCOMPATIBLE HAZARDOUS WASTES MUST BE SEPARATED



Do not store Hazardous Waste with Biohazard or Radioactive Waste



HAZARDOUS CHEMICALS MUST BE STORED SEPARATELY



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**CAUTION
HAZARDOUS
WASTE**



T. Swasupalani

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Safe disposal of hazardous Waste

The Lab Assistant with the help of the faculty in charge took the responsibility to dispose the chemicals, digging a pit in a palce which is not used, and buried under the ground.



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Waste Reduction Strategies

Our waste reduction strategies focus on minimizing the amount of waste generated by the individuals, and community in the campus. This practice include reducing consumption, reusing materials, recycling, and composting. By prioritizing these waste reduction, we conserve resources, decrease landfill usage, lower greenhouse gas emissions, and reduce environmental pollution. We as institution, implementing these effective waste reduction strategies create a more sustainable society, where less waste is produced and more materials are repurposed and recycled. This approach benefits the environment.



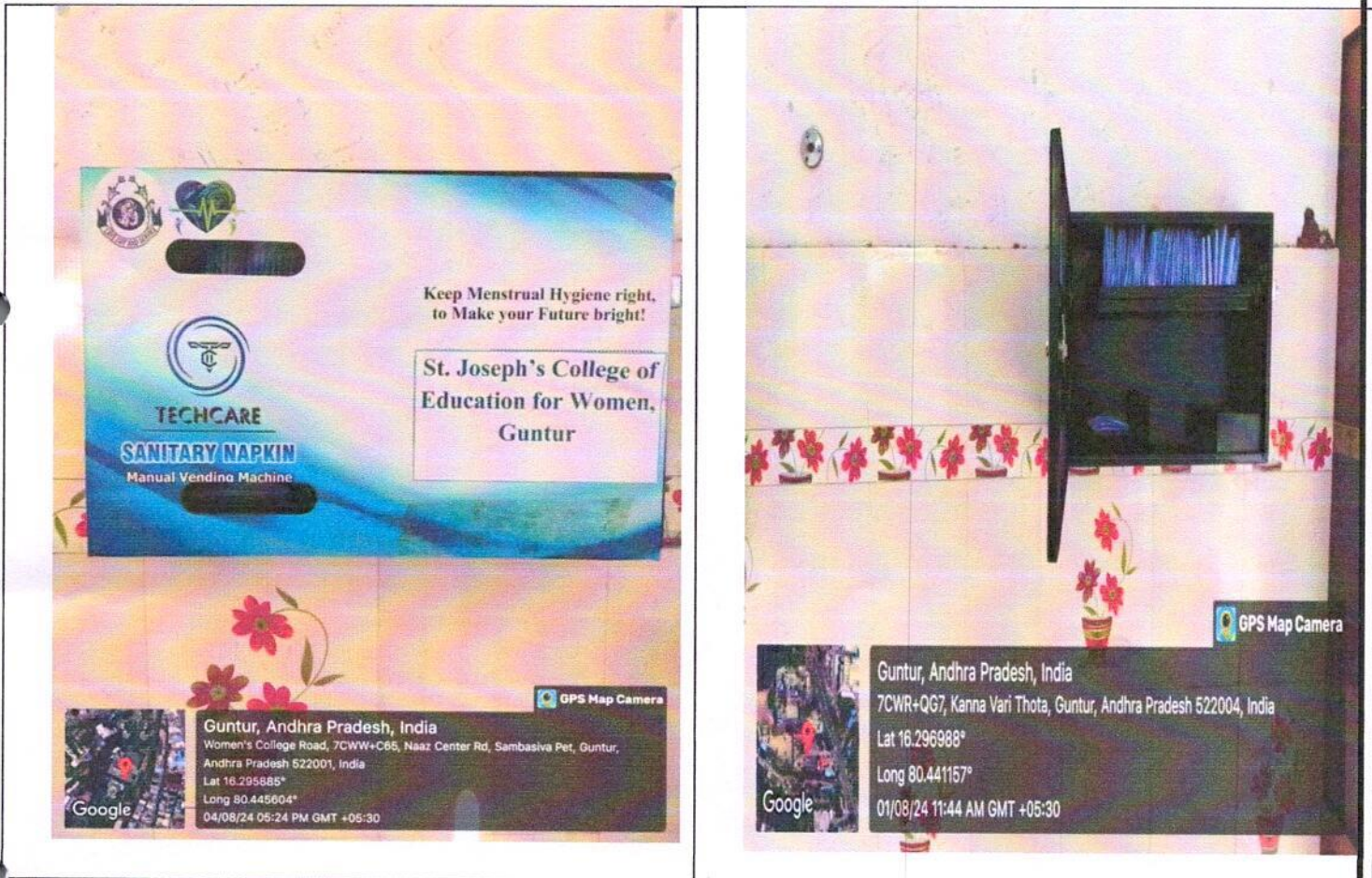
These waste are segregated properly and disposed appropriately



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Provision of Sanitary Napkins for Staff and Students

SJCE management provides hygiene related sanitary pads for our staff and students, during the menstrual cycle, sanitary napkins vending machine is filled with sanitary napkins, whenever the staff and students need it, and they utilize them free of cost.



Sanitary napkin vending machine for our students at free of cost



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Incinerator/Sanitary Napkins Disposal Machine

Incinerator is used for safe disposal of sanitary napkins for students and staff. Sanitary pads are converting them in to ash, fuel gas and heat. It helps to reduce the volume of Hazardous /contaminated materials are safely neutralized by Incinerator so students using this product are taking part in hazardous management.



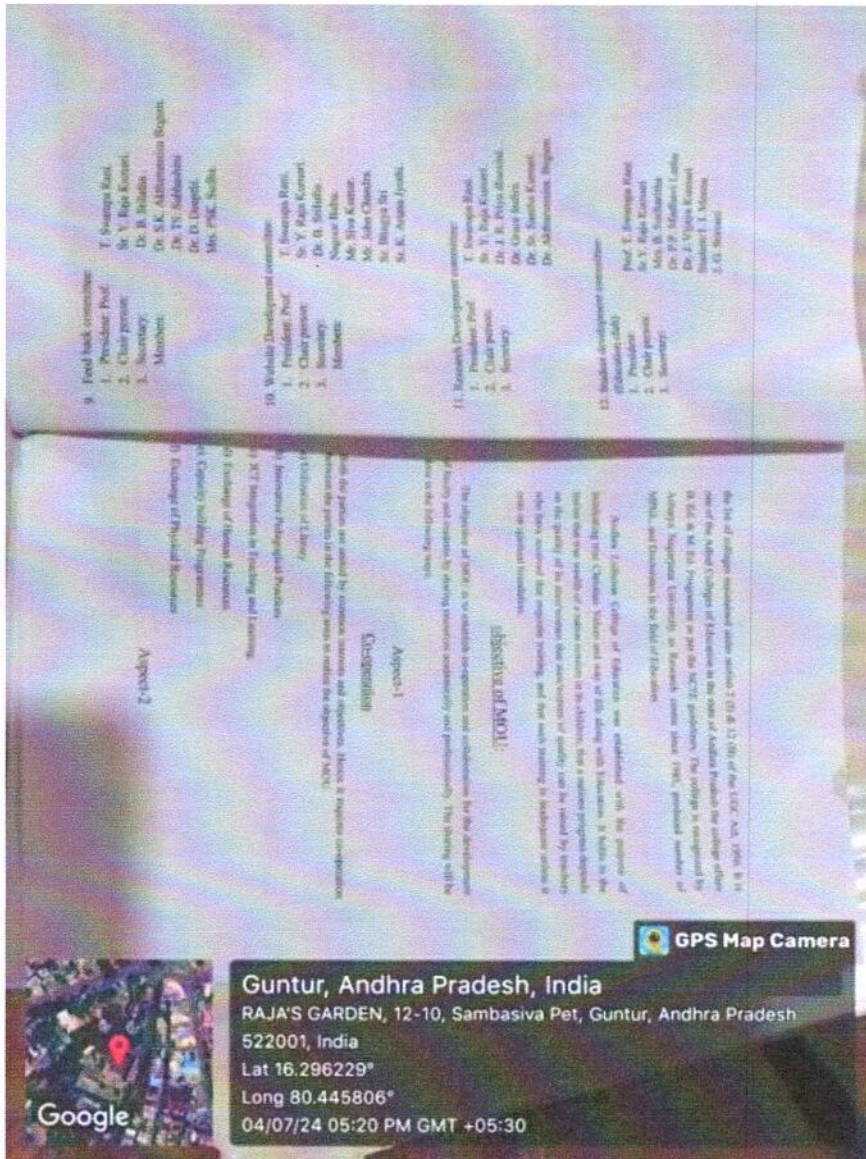
Sanitary Napkin Disposal Machine to maintain Menstrual Hygiene



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Re-use of Waste Papers

We encouraged our students to use blank papers for drawing, painting and for other activities. We train our students to staple blank papers together to create homemade notepads. Re-using paper helps in reducing environmental impact and promoting sustainable practices.



Blank pages from answer Scripts are utilized for rough use.



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Decorative Items

Using recycled waste to create useful products as preparation of teaching aids with low cost and no cost materials, decorative items. The main purpose is to conserve natural resources and minimize the environmental pollution impact of waste disposal.



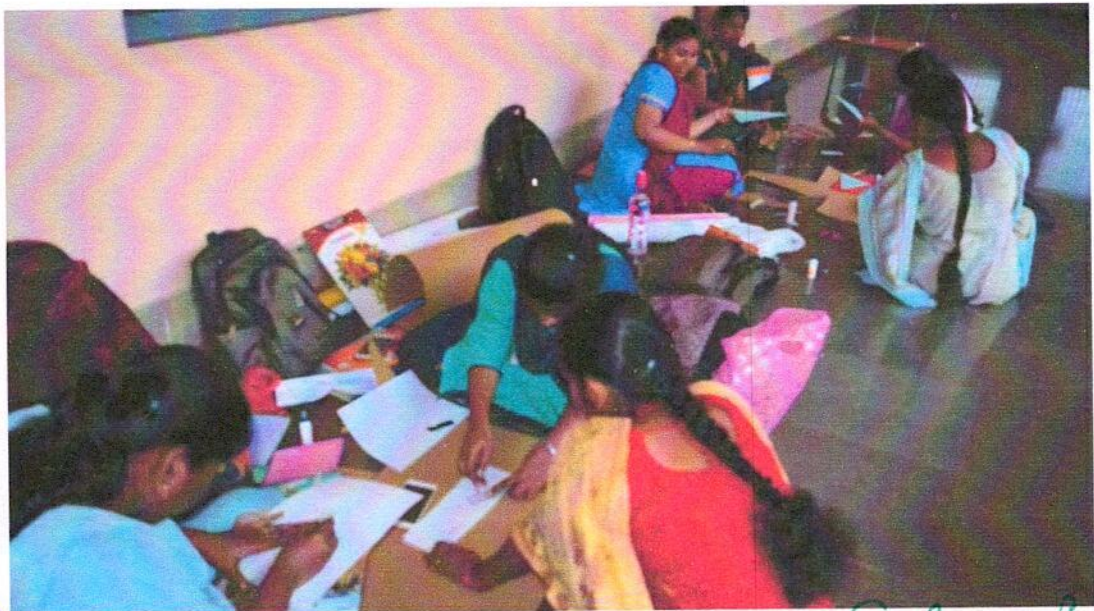
Students are encouraged to use these material for the preparation of useful decorative items



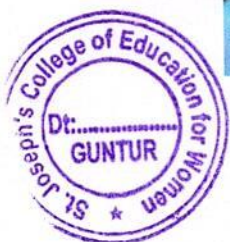
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TLM Preparation by using Low Cost & No Cost Material

As part of Teacher Training Course students are engage in creating effective teaching-learning materials using low-cost and no-cost resources. Students will learn innovative techniques for re-purposing everyday items such as cardboard, fabric scraps, and plastic bottles to develop educational tools and resources. The workshop will cover practical methods for designing visual aids that support diverse learning needs. By focusing on affordability and resourcefulness, students will gain hands-on experience in crafting functional materials that enhance classroom learning environments while also fostering creativity and problem-solving skills. This approach not only promotes budget-friendly teaching solutions but also encourages sustainable practices in education.



Preparation of TLM by the students



G. Srinivasubani
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Teaching AIDS prepared by B. Ed students with low cost /No cost Material

Preparing teaching aids with low cost and waste material (waste management) practical sessions on waste management sessions are held to orient

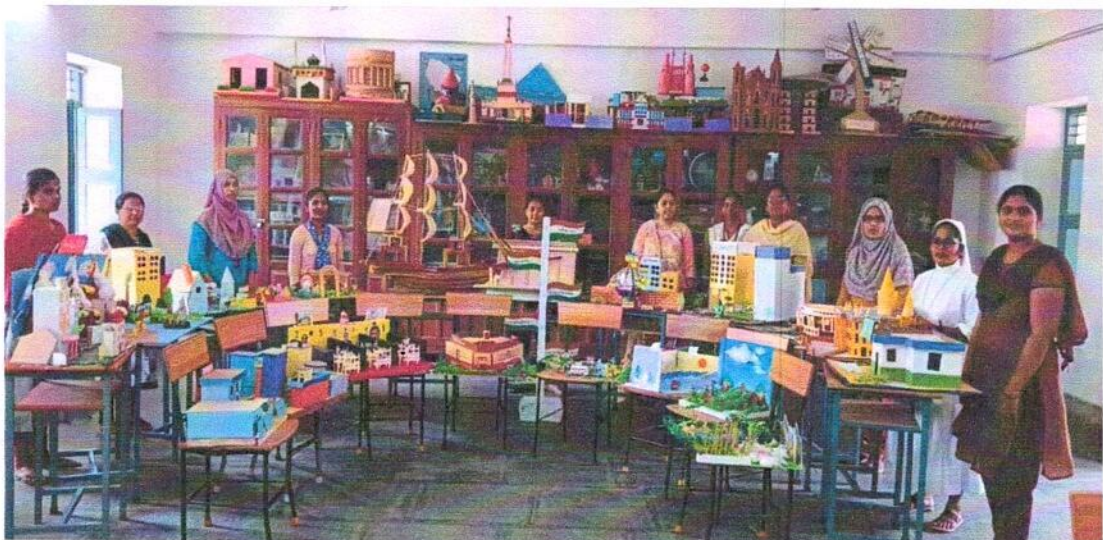


Teaching items prepared by students with low cost and no cost materials



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Teaching AIDS prepared by B. Ed students with low cost /No cost material



T. Lakshmaparvathi

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Students preparing TLM under the supervision of their guide



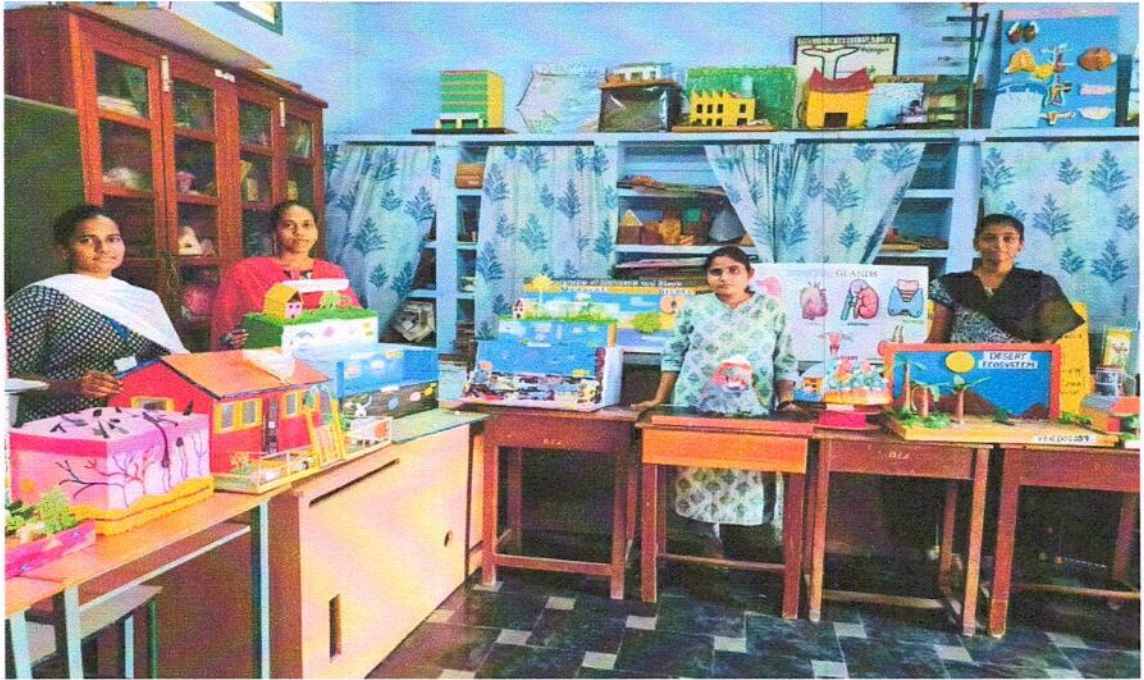
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TLM prepared by students from the waste materials



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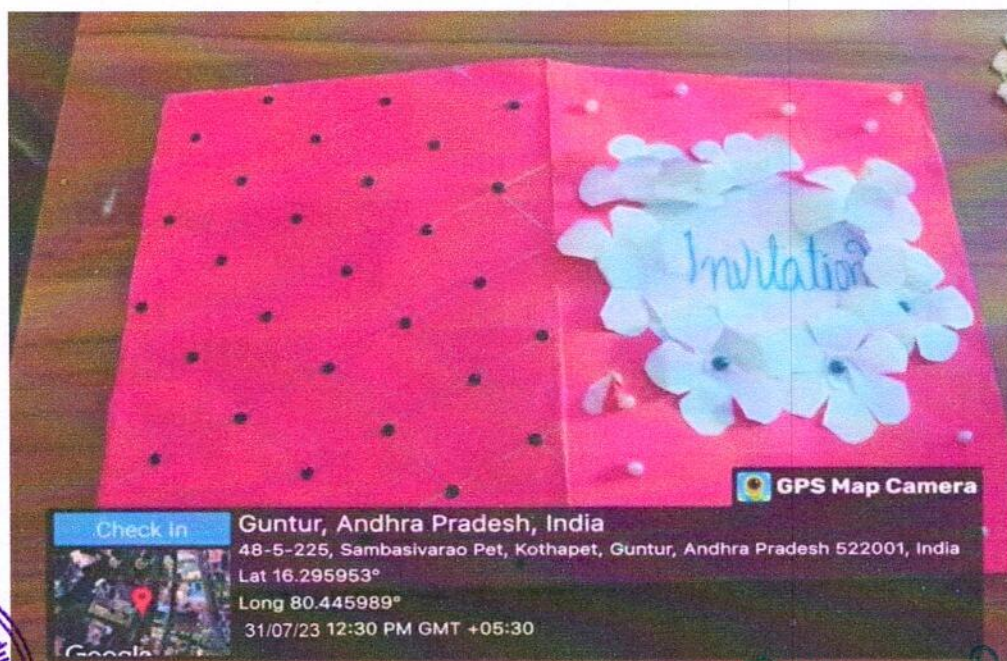
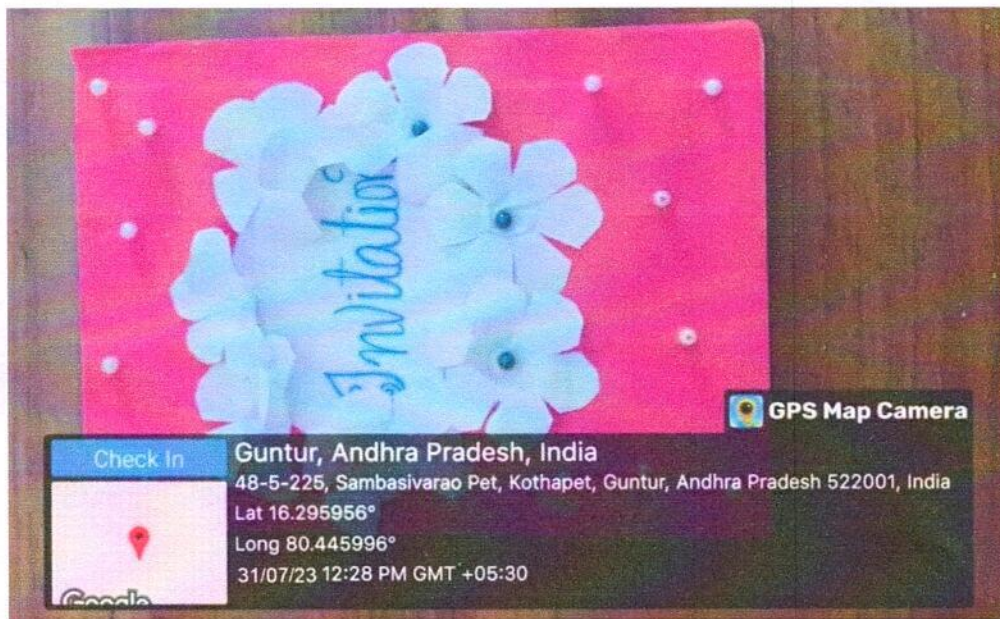
TLM's Prepared by Methodology students



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Preparation of Greeting /Invitation Cards by using of waste papers

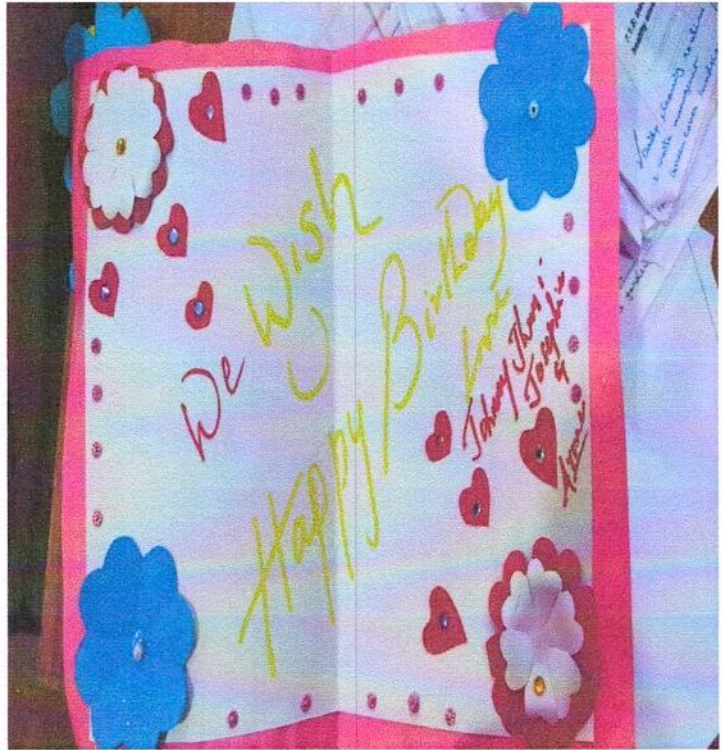
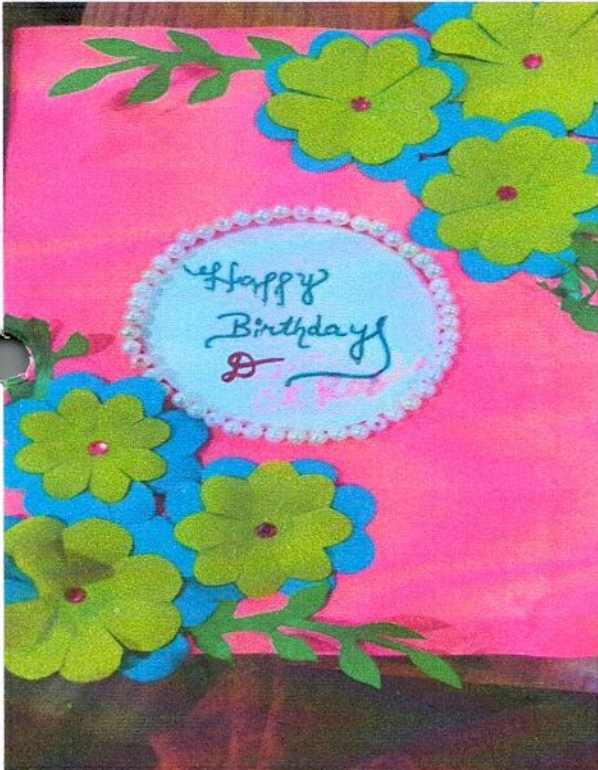
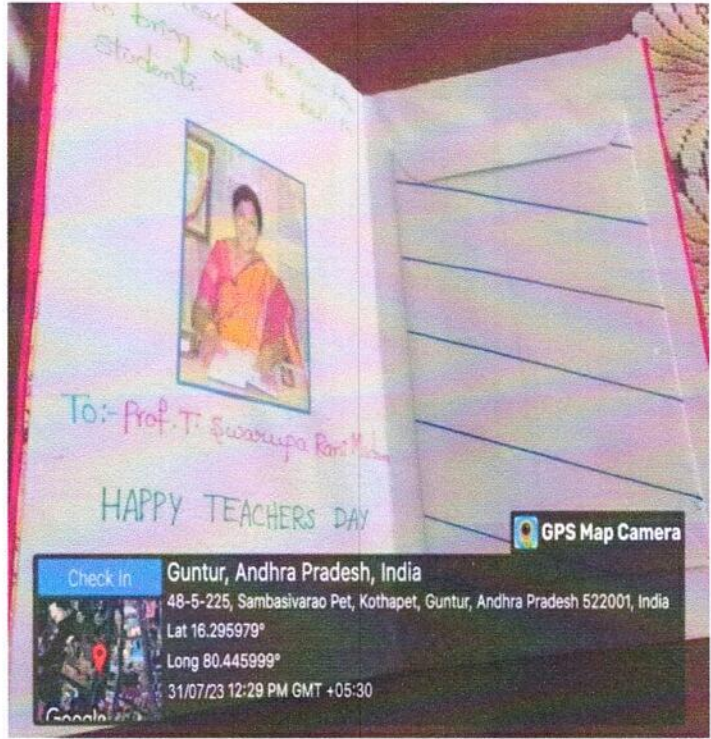
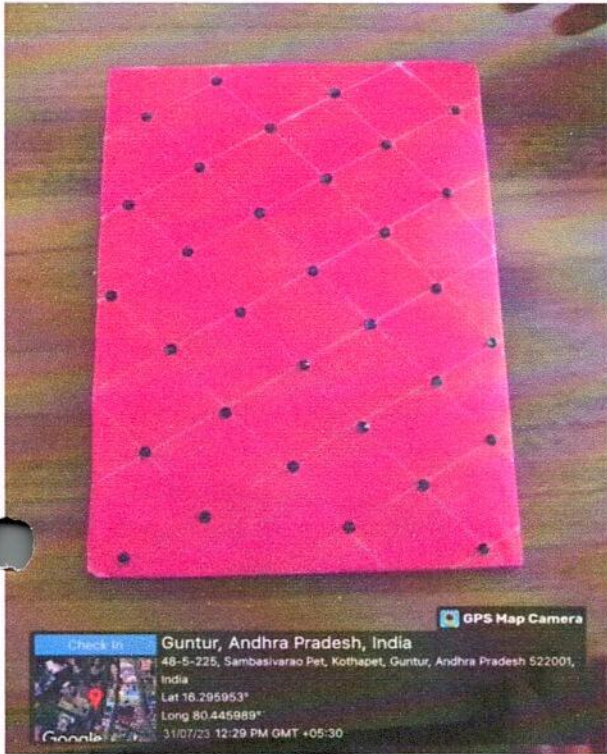
Art education is a vital component of a well-rounded curriculum, encompassing the teaching and learning of various forms including painting, drawing, etc. It goes beyond the simple creation of art, aiming to develop students' artistic skills, critical thinking, and emotional intelligence. In art Education we train our students to transform waste papers into elegant and eco-friendly greeting and invitation cards. The process begins with collecting and sorting various types of waste paper, such as old newspapers, magazines, and scrap paper. Students will then experiment with techniques like papier-mâché, collage, and handmade paper creation to repurpose these materials into textured, visually interesting surfaces for their cards. This project will enhance skills in sustainable art practices while allowing students to create personalized and environmentally conscious cards.



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Greeting / Invitation cards prepared by B.Ed students



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Preparation of Cloth Bags

As a part of waste management we train our students to prepare cloth bags by using old and used cloth. We encourage students to use only cloth bags to promote eco-friendly choices. Main our focus is to decrease the amount of plastic usage and also reduce pollution and it is best alternative for sustainable practices.



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These cloth bags are prepared by B. Ed students



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Partnership

And

Collaborations



S. Sivarajabani
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Appreciation letter of Gogineni Dairy Farm

Gogineni Dairy farm is thankful to SJCE hostel management for supporting us through the kitchen waste was generated from the hostel from 1st February 2018 onwards to till date wet / kitchen waste generated in the hostel of St. Joseph's College of Education for Women, Guntur is being given to Gogineni Sambasiva Rao Dairy farm, Guntur, A.P. for free of cost. We are thankful to SJCE management for supporting us and co-operating with us for our dairy farm.

G. Sambasiva Rao



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Affiliated to Acharya Nagarjuna University

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AGREEMENT FOR DISPOSAL OF SOLID WASTE

On the date 11th July 2019 an agreement made between St.Joseph's College of education for women, Guntur-1 and Guntur Municipal Corporation.

According to this agreement any solid waste generated in St.Joseph's College of education for women, will be given to Guntur Municipal Corporation. For this, the college has been paying Rs.500/ per month

This agreement shall expire after five years from the date of the agreement. Upon completion of the term the agreement may be renewed at the consent of both parties in writing.

T. Swarupa Rani

PRINCIPAL

St.Joseph's College of education for women

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St. Joseph's College of Education for Women
(AUTONOMOUS), GUNTUR-522001

Gan

for GMC, Guntur

For CUBE BIO ENERGY PVT. LTD.

Supervisor

T. Swarupa Rani

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for GMC, Guntur

For CUBE BIO ENERGY PVT. LTD.

Supervisor

Memorandum of Understanding (MOU) for Waste Management Policy including E- Waste

This Memorandum of Understanding (MOU) is entered into on **12.06.2019** between **St. Joseph's College of Education for Women (SJCE)**, Guntur hereinafter referred to as "**Party A**," and **Guntur Municipal Corporation** outsourcing, represented by the Supervisor for CUBE Bio Energy Pvt. Ltd., herein after referred to as "**Party B**."

Background:

Party A is St. Joseph's College of Education for Women which had its very humble beginnings on the 1st July in 1946. It was the first of its kind in Andhra Pradesh, meant solely for the training of women graduates and post-graduates of all creeds and communities. The college is offering B. Ed. and M.Ed. programmes affiliated to the Nagarjuna University, Nagarjuna Nagar, Guntur, and D.Ed. programme affiliated to NCTE. It was established to develop a skill to stimulate experience in the taught, under an artificially created environment, less with material resources and more by the creation of an emotional atmosphere. The teacher should develop a capacity to do, observe, infer, to generalize, and to promote research in the fields of Education.

SJCE's sustainable and holistic waste management is essential in reducing its environmental footprint, providing a safe and healthy work environment for teaching and non-teaching employees, students, and visitors. It is committed to sustainable environmental practices and waste management initiatives. Party B is the governing municipality responsible for waste management within its jurisdiction.

Purpose:

The purpose of this MOU is to establish a collaborative framework between Party A and Party B to improve waste management practices, promote recycling and resource recovery, and reduce environmental impact within the municipality.

Scope of Cooperation:

Waste Collection and Disposal: Party A agrees to coordinate with Party B for efficient waste collection and disposal services, ensuring compliance with local regulations and environmental standards.

Recycling Programs: Party A will collaborate with Party B to implement and promote recycling programs, including public awareness campaigns and infrastructure development for recycling facilities.

Hazardous Waste Management: Both parties will work together to manage hazardous waste responsibly, ensuring proper handling, storage, and disposal in accordance with applicable laws.

Waste Reduction Initiatives: Party A and Party B will jointly develop strategies to reduce waste generation, encourage reuse, and promote sustainable packaging alternatives.

Monitoring and Evaluation: Regular monitoring and evaluation mechanisms will be established to assess the effectiveness of waste management initiatives and identify areas for improvement.

Responsibilities:

Party A: Responsibilities:

- ❖ Provide resources and expertise for waste management programs.
- ❖ Conduct public education and awareness campaigns on waste reduction and recycling.
- ❖ Collaborate with Party B on waste collection schedules and routes.
- ❖ Implement measures to ensure compliance with waste management regulations.

Party B: Responsibilities:

- ❖ Provide necessary permits and approvals for waste management activities.
- ❖ Coordinate with Party A on waste collection, recycling, and disposal procedures.
- ❖ Facilitate access to waste management facilities and infrastructure.
- ❖ Monitor and enforce waste management policies and regulations.

Duration and Renewal:

This MOU shall commence on 12.06.2019 and remain in effect for a period of five years. Upon expiration, both parties may review and renew the MOU by mutual agreement.

Confidentiality:


Both parties agree to maintain confidentiality regarding sensitive information exchanged during the collaboration under this MOU.

Dispute Resolution:

In the event of any disputes arising from this MOU, both parties agree to resolve them amicably through mutual discussions and negotiations.

Signatures:

This MOU is executed in duplicate, each party retaining one copy.



Signature of Party A

PRINCIPAL

ST. JOSEPH'S COLLEGE OF EDUCATION

FOR WOMEN

GUNTUR-522 001., A.P.



Signature of Party B

For CUBE BIO ENERGY PVT. L

Supervisor

MEMORANDUM OF UNDERSTANDING (MOU)

This Memorandum of Understanding (MOU) is entered into on 01-08-2018 between **St. Joseph's College of Education for Women (SJCE)**, represented by Dr.T.Swarupa Rani, Principal, and her successor who is duly authorized to sign and execute the MOU Guntur herein after referred to as "**Party A,**" and **SRI LAKSHMI PAPER MART** office situated at Chowtra Centre, Guntur represented by Anna Ugar Narasima Rao, herein after referred to as "**Party B**"

This Memorandum of Understanding is made and executed on **01-08-2018** at Guntur.

St. Joseph's College of Education for women, has agreed to collect und give away the recyclable waste including any kind of paper waste and old records generated in the College.

1. NOW THIS MOU WITNESSES AS UNDER:

This is an agreement for a synergic alliance between St. Joseph's College of Education for women, GUNTUR and SRI LAKSHMI PAPER MART for the social cause of recycling of Waste including paper waste and old records

2. TIME PERIOD:

This MOU shall be for a period of six years commencing from the date of signing of this MOU

3. ROLES AND RESPONSIBILITIES OF SJCE:

The college will

- ❖ segregate paper waste at College premise through its Teaching staff, housekeeping Staff and Students
- ❖ give away any kind of paper waste, old records, e- waste to SRI LAKSHMI PAPER MART at price agreed mutually.
- ❖ shall motivate students to bring recyclable waste like paper, old records, etc.
- ❖ will put bins for waste paper and old records collection in the College promises.

4. ROLES AND RESPONSIBILITIES OF SRI LAKSHMI PAPER MART

SRI LAKSHMI PAPER MART will

- ❖ collect the waste paper and old records from St.Joseph's College of Education for Women for the recycling
- ❖ will make payment to St.Joseph's College of Education for Women directly into their accounts for the waste paper collected against the accurate weighment.
- ❖ do the payment not later than 15 days from the date of purchase of day waste from the waste collector the mutually agreed price

5. PERFORMANCE OF OBLIGATIONS

1. The details laid out in this MOU, notwithstanding the essence and sprit of this MOU is an understanding between St.Joseph's College of Education for Women and SRI LAKSHMI PAPER MART

2. Any notice or other communication under or in connection with this agreement shall be in writing in the English language and shall be delivered personally or sent by way of e-mail to the party with due notice or communication at its address set out in this contract or such other address any either party may specify by notice in writing to other.

Address for Communication:

Following are the address to which all notices shall be sent:

For SRI LAKSHMI PAPER MART
SRI LAKSHMI PAPER MART
Chowtra center
Guntur - 522003, Andhra Pradesh.

For SJCE,

St. Joseph's College of Education for Women,
Sambasivapet 2nd Lane,
Guntur - 522001, Andhra Pradesh.

6. EXECUTION OF THIS AGREEMENT SHALL BE DEEMED TO BE:

- a) A confirmation by both the parties that no benefit, either in cash or kind has been provided by either party to the other party or to any officer of employee, or any relative associate of any officer in employee of either party or of any of their associate institutions/companies in order to enter into this Agreement, and
- b) An undertaking by both the parties not to provide any benefit, either in cash or kind to any officer 'employee/relative/associate of any officer or employee of either party as reward or consideration either for entering into this MOU or other matter relating to this Agreement

7. NOTICE/TERMINATION:

Any notice required to be given here under shall be given in writing at the address of each party set forth as below in this agreement or to such other address either party may substitute by written notice to the other. Either party may terminate this Agreement by giving 30 days written notice to the other party.

In witness whereof the parties hereto have signed this agreement on the day, month and year mentioned here in before

T. Swaruparani
PRINCIPAL

St. Joseph's College Of Education for Women

PRINCIPAL
ST. JOSEPH'S COLLEGE OF EDUCATION
FOR WOMEN
GUNTUR-522 001., A.P

A.U. Narasinha Rao
A.U. Narasinha Rao

For SRI LAKSHMI PAPER MART

Research and Development

Waste reduction strategies are essential in addressing the growing global challenge of waste management. With the world generating billions of tons of waste annually, reducing the amount of waste we produce is critical for environmental sustainability, public health, and economic efficiency. In order to address this issues, we have a programme for B. Ed students to conduct action research Programme, and give awareness to research by motivating the students to take up waste reduction strategies that aims to explore innovative approaches, assess their effectiveness, and provide insights into how these strategies can be implemented at various levels, from individual households to large-scale industries.

Objectives:

The primary objectives of this research are:

1. To identify and analyse current waste reduction strategies.
2. To evaluate the effectiveness and feasibility of these strategies.
3. To explore innovative technologies and practice waste reduction.
4. To provide recommendations for the implementation of waste reduction strategies in different sectors.

Waste reduction strategies are essential for achieving sustainable development and protecting the environment. This research and development effort highlighted the importance of adopting a multi-faceted approach that combined technology, policy, and behavioural change. By implementing these effective waste reduction strategies, we could significantly reduce the environmental impact of waste, conservation of resources, and promote a circular economy. Our focus on innovation, collaboration, and education ensured to certain extend that these strategies are widely adopted and effectively implemented.



T. Swasuparani
PRINCIPAL
ST. JOSEPH'S COLLEGE OF EDUCATION
FOR WOMEN
GUNTUR-522 001., A.P.