

NAAC – Cycle – 1	
AISHE: U-0967	
Criterion 3	R, I & E
KI 3.6	M 3.6.1

Skill Center: Sarjan

- Waste Recycling and Decorative Article Preparation
- Value Added Course: Wealth from Waste
- Earn While Learn

'Swami shreeji'





VALUE ADDED COURSE (VAC) WEALTH FROM WASTE





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Course Content	Hours
Module-I: Waste Material: Collection and Treatment	6 hrs
 Survey of available/generated waste. Collection of waste materials: Bio waste, Cloth waste, E-waste and Plastic waste. Processing of waste material: Dying with natural color, painting, designing etc Hardening of material: drying/ironing. 	
Module-II: Product Preparation using waste materials	10hrs
 Procedure of flower preparation from different waste. Procedure for the preparation of different decorative items from collected waste. Procedure for the preparation of different household items from collected waste. 	
Module-III: Use of products for different purposes	13hrs
 Products from Bio waste: Different flower arrangements including small and large handy bouquet, table bouquet, Photo frames, Flower vase, Wall Hangings; Garlands and Ornaments. Products from Cloth waste: Carpets, Doormat, Purses, Bags, Hangings, Decorative items etc Products from E-waste: Containers, Stationary items, Home decorative items and household items. Products from Plastic waste: Containers for terrace gardening, Containers to hold different items, Home decorative items and household items. 	

Module-IV: Marketing	8 hrs
 Need analysis, pricing and basic marketing strategies. Preparation and designing of price list; Methods of advertisement. Packaging of products; Exhibition cum sale. Survey for the need of Product and its supply to the market. 	
Module-V: Project: Innovative Creation through Reuse and Recycling of Waste	3 hrs





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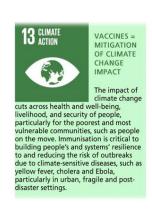
Objective Of The Course:

- 1. To develop Sustainable Orderliness, Enhanced Ecological Balance, Beauty, Productivity and Dignity in the society and nature.
- 2. To develop the ability to critically think and creatively use the unused natural resources.
- 3. To sensitize the students regarding environmental concerns and social responsibility.
- 4. To explore market opportunities for the recovered and recycling materials among the students.
- 5. To provide platform for business model through experiential learning.

Sustainable Development Goals











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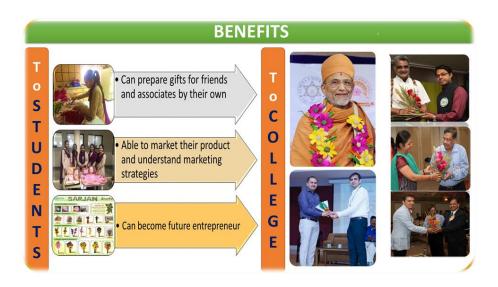
Target Skills (Course Outcomes): The Students Will Be Able To Develop

- 1. Critical Thinking
- 2. Creativity
- 3. Collaboration & Team Work
- 4. Communication & Presentation
- 5. Recognize, Build & Appraise the trash as recourse for eco friendly Sustainable Solution.





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Step: I Boiling The Water, Add Some Food Colour

Step: II Now Add The Raw Maize Leaves, Mix It Very Well







Step: III

After The Boiling Process
Let The Maize Leaves To Dry

Dry process : One whole night









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Step: IV iron process iron to the maize leaves using iron and newspaper





Step: V cut the leaves shapes, making flowers using cutting leaves or a petals











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Step : VI you can make your own creativity 1: flower bouquet, 2 : card making, 3 : flower vase



















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Handy Bouquet

- Paper canvas
- Maize flower
- Maize / wheat leaves
- Jute threads
- Glue gun
- Some decorative elements



Jute badges











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	Department of Biotechnology	
	Part III	
Skill Enhancer	ment Course (SEC) – I - Value Add	led Course (VAC)
For the	students admitted from A.Y. 2021-202	22 & onwards
Offered by: Department	Offered to: (Please mark √ as applied	cable)
of Biotechnology, Faculty of Science	Students across the University department.	rsity other than the offering
	Students across the University	ersity including the offering ould not be a part of regular partment.)
Semester	: II –V (3 year programs) / VII (4 y	
Course Code	Course Title	Course Credit and Hours
	Wealth from Waste	1 Credit - 4 hrs / wk
1. To develop Sustain and Dignity in the	nable Orderliness, Enhanced Ecologic society and nature.	al Balance, Beauty, Productivity
 To develop Sustain and Dignity in the To develop the abi To sensitize the stu To explore marke students 	nable Orderliness, Enhanced Ecologic	al Balance, Beauty, Productivity the the unused natural resources. In and social responsibility recycling materials among the
and Dignity in the 2. To develop the abi 3. To sensitize the stu 4. To explore marke students	nable Orderliness, Enhanced Ecologic society and nature. lity to critically think and creatively us adents regarding environmental concert opportunities for the recovered and	al Balance, Beauty, Productivity the the unused natural resources. In and social responsibility recycling materials among the
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Justification and references for the course (Mapping with NSDC/NSQF/Sector Skill Council/Regional needs/any other):

Our ATMIYA University is working with the mission of nurturing the creative thinkers and leaders through transformative learning and core value like Co-existential thinking and Green - thinking. To fulfill the same, this course has been proposed since 2016. This course was designed to nurture our core value of "harmony with nature" and Sustainable development. The various discarded resources of the campus generated everyday are used as raw material to prepare variety of useful creative products.

Reference:

Course Description:

The course is skill based where students will learn to identify different unused natural resources and convert them into creative and useful products. The course also provides knowledge of marketing like product packaging, labelling, branding, costing etc.. The course addresses SDG-8,9,11,12 and 13: Decent Work and Economic Growth, Industry, Innovation and Infrastructure, Sustainable Cities and Communities, Responsible Production & Consumption and Climate Action.

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Page 2 of 3

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Atmiya University, Rajkot-Gujarat-India

Atmiya University Rajkot





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Modul	e-IV : Marketing	8 hrs
•	Need analysis, pricing and basic marketing strategies	
•	Preparation and designing of price list; Methods of advertisement	
•	Packaging of products; Exhibition cum sale	
•	Survey for the need of Product and its supply to the market	
Modul	e-V: Project: Innovative Creation through Reuse and Recycling of Waste	3 hrs

Suggested laboratory experiments / other activities:

- 1. Improving the Self life of the product
- 2. Marketing through pamphlet designing
- 3. Exhibition cum sale

Pedagogic tools:

- 1. Videos
- 2. Oral Discussion
- 3. Live Demonstrations
- 4. Hands on training
- 5. Assignment

Reference Books:

- 1. Susan Wasinger, Eco Craft: Recycle, Recraft, Restyle, Lark Books, 4 Division of Sterling Publishing co., 2009
- Maria Noble, How to make 100 Paper Flowers, Creative Publishing International, 2013

Suggested reading / E-resources

- 1. https://books.google.co.in/books?id=RzJ59JWEBs0C&printsec=frontcover&dq=eco+craf t&hl=en&sa=X&ved=0ahUKEwjxufe76q7aAhXMrI8KHcuEAFwQ6AEIKDAA#v=one page&q=eco%20craft&f=false
- https://books.google.co.in/books?id=3Uv0AwAAQBAJ&printsec=frontcover&dq=DIY+ craft+for+flowers&hl=en&sa=X&ved=0ahUKEwi4pf2Q6a7aAhVCqo8KHRPeAH8Q6w EIOzAD#v=onepage&q&f=false

Suggested MOOCs:

- 1. https://www.classcentral.com/course/from-waste-to-value-20611
- 2. https://www.classcentral.com/course/edx-solid-waste-management-18989
- 3. http://www.basel.int/Implementation/TechnicalAssistance/MOOC/tabid/4966/Default.aspx

Page 3 of 3

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Registrar
Atmiya University

Rajkot





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