**Enclosure – VI**

**Shree Manibhai Virani and Smt. Navalben Virani Science College, Rajkot**

**(Autonomous)**

**(Affiliated to Saurashtra University, Rajkot)**

**Department of Biotechnology**

**FOR STUDENTS ADMITTED FROM A.Y. 2019-2020 & ONWARDS**

**Value Added Course**

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| **19AEVA08** | **Wealth From Waste** | **Duration**  **40 hrs** | **Any semester between II- V** | **1 Credit** |

**Course Purpose:**

The purpose of this course is to create sustainable orderliness, enhanced ecological balance, beauty, productivity, dignity in the society/nature. Students will be able explore market opportunities for the recovered and recycling materials. They also experience developing of a business model

**Unit 1: Waste Material: Collection and Treatment 6 hrs**

* Survey of available/generated waste
* Collection of waste materials**:** Husk leaves of corn, used ear of wheat, maize & other cereals
* Dyeing of waste material with natural colors
* Hardening of material: drying and ironing

**Unit 2: Use of treated waste material: Flower preparation 10 hrs**

* Procedure of flower preparation
* Use of different materials
* Shapes of flowers
* Types of flowers

**Unit 3: Flower arrangement for different purposes 10 hrs**

* Procedure for preparation of different flower
* Types and uses of different flower arrangements
* Small and large handy bouquet, table bouquet
* Photo frames, Flower vase, Wall Hangings; Garlands and Ornaments

**Unit 4: 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

**Unit 5: Project: Innovative Creation through Reuse and Recycling of Waste 6 hrs**

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| **Reference books:** |
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* 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 readings / e-links:**

* <https://books.google.co.in/books?id=RzJ59JWEBs0C&printsec=frontcover&dq=eco+craft&hl=en&sa=X&ved=0ahUKEwjxufe76q7aAhXMrI8KHcuEAFwQ6AEIKDAA#v=onepage&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=0ahUKEwi4pf2Q6a7aAhVCqo8KHRPeAH8Q6wEIOzAD#v=onepage&q&f=false>