

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Syllabus for M. Arch - 2019**  
**FIRST SEMESTER**  
**Subject: Sustainable Product developments**

**Course Code: X16106**

**Credits: 3**

**Course Objective:** Developing products that serve the application of Sustainable development in Architecture.

**Course Contents:**

This module will concentrate on developing various tools to apply sustainable development. Students will need to identify an issue in application of sustainability and pick up a product to exhibit it. Examples of such products range from Rainwater harvesting filter, Level sensor mechanism, Bio-wall, Air cooler, Atomiser, Fogger, Straw and Lime blocks, Self watering planters, Roof top garden, etc.

The module concentrates on understanding and sizing of systems and develop solutions in a hands on way. Understand/develop methodologies for assimilating sustainable materials knowledge within the design process; utilizing design judgment as well as analytical judgment to evaluate green materials and systems; integrating right and left-brain thinking. The module also helps in extending similar exercise in product development for thesis research.

**References:**

1. Do it yourself ideas and kits
2. Green products in the markets
3. Eco-Standards, Product Labelling and Green Consumerism Book by Mikael Klintman