

Value Added Course

On

Sustainable Living



**Department of Mechanical Engineering
University Institute of Engineering & Technology, SBBSU**

ABOUT

Mechanical Engineering department at SBBSU offers a B.Tech programme in Mechanical Engineering and M.Tech programme in Production Engineering (both UGC Accredited). Right from its inception in 2015, the department has been focusing on high-quality teaching along with integrated Laboratory experience. Its strong and interactive curriculum and hands-on learning will make the students capable of taking their career to the next level, whether in the professional engineering practice or in advanced studies. The Discipline of Mechanical Engineering effectively connects teaching of engineering education to active research in different areas. The department has the most modern infrastructure to support high-end teaching, research, and developmental activities in its laboratories.

The aim of Mechanical Engineering Department is to provide the students with a perfect blend of intellectual and practical experiences that helps them to serve the society and address a variety of needs. With a solid grounding in the principles and practice of mechanical engineering, the undergraduates will be ready to engage in ethical approaches to engineering, with concern for society and the environment. To align the objectives of the department in safeguarding the environment, a value added course titled 'The Sustainable Living' considers the unsustainable ways in which we use our natural resources. It then describes the steps that we can take, as individual consumers and as a global community, to change this, through various practices that will help the environment and even save us money.

SALIENT FEATURES

1. Provides a learning environment strongly focused on collaborative and interdisciplinary research under the guidance of experienced and qualified faculty.
2. Provides 24 hours High speed Internet facility with Wi-Fi Connectivity.
3. The department provides Digital Library with access to Journals and Video lectures of Eminent Professors.
4. The department regularly organizes Conferences, Seminars, Student Symposia, Short-Term Training Program, Value Added Courses and frequent Industrial Visits to Industry for Practical Exposure and Technical Awareness.
5. The department has signed MOU with IIT Delhi, to provide remote access to Virtual Labs and has established Student Chapter of Computer Society of India.

VISION

The Mechanical Engineering Department endeavours to be recognized globally for outstanding education and research leading to well qualified engineers, who are innovative, entrepreneurial, and successful in advanced fields of Mechanical Engineering to cater the ever-changing industrial demands and social needs.

MISSION

To impart highest quality education, to build students capability and enhance their skills to make them globally competitive Mechanical Engineers.

To provide the students with academic environment of excellence, leadership, ethical guidelines and lifelong learning needed for a long productive career.

Course Code	ME051
Course Title	Sustainable Living
Type of Course	Value Added Course
L T P	2 0 0
Credits	2
Course pre-requisite	12 th class passed in any stream
Course Objectives	The course describes what is meant by 'energy conservation', and discusses related solutions, such as energy efficiency, and why it is important to practice at home.
Course Outcomes	<ol style="list-style-type: none"> 1. Clarifies its meaning and explains the necessity to make changes in our daily lives. 2. Learn the benefits of sustainable living and how global organisations and individuals each play a part in the maintenance of a sustainable world. 3. Providing many ways to easily conserve water and energy as well as waste reduction and recycling in the home.

Syllabus

UNIT-I

An Overview of Sustainability:

1. Definition of sustainable
2. The three pillars of sustainability
3. Overall benefits of sustainable living

UNIT-II

Conserving Energy:

1. What is energy conservation?
2. Why is it so important to save energy?
3. Best ways to save energy at home

Conserving Water:

1. What is water conservation?
2. How we use water
3. Best ways to practice water conservation in your home

UNIT-III

Reduce, Reuse and Recycle:

1. What is meant by reduce, reuse and recycle?
2. How to reduce
3. Reusing home products
4. What is upcycling?
5. Benefits of recycling
6. What not to recycle

UNIT-IV

Sustainable Living in the Garden

1. Starting an organic garden
2. Grass-cycling
3. Edible weeds

Sustainable Living in the House:

1. A green home makeover
2. Homemade cleaning products

REGISTRATION FORM

2 Credits Value Added Course

on

Sustainable Living

Name _____

Date of birth _____ Course/Sem: _____

Registration No. _____

Institute _____

Date of Registration _____

Address for correspondence _____

Phone _____

Email _____

Signature of applicant (with date)

VENUE

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Address for Communication

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