

**ADD-ON COURSE ON
"SUSTAINABLE CONSTRUCTION
TECHNIQUES"**

Department of Civil Engineering

Date:27/10/2023 & 28/10/2023

PLACE OF COURSE : MEA ENGINEERING COLLEGE PERINTHALMANNA

DATE OF COURSE: 27/10/2023 & 28/10/2023

DEPARTMENT: CIVIL ENGINEERING

COORDINATOR: Dr.Jeeja Menon

GUIDED BY: Er. Basithali EK

AIM & OBJECTIVE OF THE ADD-ON COURSE:

To equip civil engineers with the knowledge, skills, and practical tools necessary to integrate sustainability principles into their design, construction, and management of civil infrastructure projects. This will enable them to contribute to the development of resilient, environmentally friendly, and resource-efficient infrastructure systems.

Objectives of the course are knowledge about sustainable construction techniques in civil engineering, develop the ability to assess the sustainability performance of civil infrastructure projects, learn to calculate the embodied energy of construction materials and identify opportunities for reduction ,understand how to source and specify sustainable materials for civil engineering projects and this this Add-on Course will empower civil engineers to become leaders in the development of sustainable and resilient infrastructure systems, contributing to a more sustainable future for our communities and planet.

SUBJECTS COVERED UNDER THIS ADD-ON COURSE:

- Introduction to sustainable construction techniques.
- Introduction to various materials of sustainable construction such as variety of leaves, hibiscus, alovera, etc.
- Practical applications of these materials.
- Practical of the construction of walls.
- Also real world application and visualization of various constructions.

PROGRAMME OUTCOME MAPPED WITH THIS ADD-ON COURSE:

- Students demonstrating proficiency in incorporating green building materials.
- Applying energy-efficient design principles.
- Managing construction waste responsibly.
- Utilizing eco-friendly construction methods.
- Ensuring indoor environmental quality.
- Practicing sustainable site planning.

- Integrating renewable energy solutions,
- To equip students with the knowledge and skills needed for sustainable and environmentally conscious construction practices.

SUMMARY OF THIS ADD-ON COURSE:

An add-on course in sustainable construction techniques provides comprehensive knowledge and skills in eco-friendly building practices. It covers topics such as green materials, energy-efficient design, waste reduction, water conservation, eco-friendly construction methods, and renewable energy. The course aims to equip individuals with the expertise needed to contribute to sustainable construction, promoting environmental responsibility and resource efficiency in the built environment.











Prepared by:

DEPARTMENT OF CIVIL ENGINEERING