# **CIE: Internal Assessment Details**

### Internal Assessment Test - 1

### **Department of Mechanical Engineering**

Program: B. E. in Mechanical Engineering

Term:	Sept 2022- Dec 2022	Course Code:	MEOE03
Course:	Sustainable Waste Management Techniques	Semester:	v
CIE:	Test – 1	Max Marks:	30

## **Syllabus**

#### **UNIT I**

Municipal solid waste management—Introduction, types of wastes, and sources, composition, generation rate, collection of waste, separation, transfer and transport, treatment and disposal options. Special emphasis on a) single-use plastics 2) e-waste 3) urban mining.

#### **UNIT II**

Sustainability-Introduction, 10 reasons for business to become sustainable. Waste defined, typical forms of waste. Biases towards waste.4-steps to achieve sustainability as an objective. Stahel's ratio of manpower to energy use in production and closed-loop material recovery. Life extension -beginning with waste elimination. Managing the change. Saving waste. Micro- power generation.10 ways to minimize product waste. Minimizing packages. Reuse, Repair, Remanufacture and Recycle.