

KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE & Affiliated to Anna University

Anand Nagar, Nellikuppam Main Road, Kumarapuram, Cuddalore – 607 109.

Phone no.(04142) 285 601- 604

www.kcet.in

info@kcet.in

DEPARTMENT OF CIVIL ENGINEERING

(Academic Year 2021-2022)

Date:11.01.2022

CIRCULAR

It is planned to conduct a value added course for III & IV year Civil Engineering students on the subject given below. Each module is scheduled from 18.01.2022 To 22.01.2022. The course plan, test procedure, attendance are followed as per regulation 2017. It is highly advised that the students should attend all the sessions and get benefited of the course.

The syllabus for the same has been formulated and will be circulated to students. The eminent staff from our department is invited to give lectures on topics from syllabus.

S.No	Year	Code/Name of the subject	Duration in Hours	Subject Incharge
1	IV	CE-VAC2101/Safety Management In Construction Aspect	30	Er.C.Sureshkumar AP/Civil
2	III	CE-VAC2102/ Solid Waste Management	30	Er.P.Dhinesh kumar AP/Civil


HOD

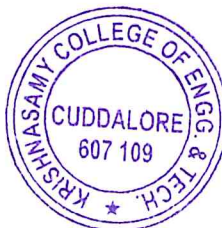

11/1/2022
VICE PRINCIPAL

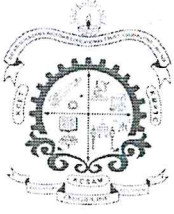

11/1/22
PRINCIPAL

Copy to :

Class Room

Class In charge





KRISHNASAMY COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE & Affiliated to Anna University

Anand Nagar, Nellikuppam Main Road, Kumarapuram, Cuddalore – 607 109.

Phone no.(04142) 285 601- 604

www.kcet.in

info@kcet.in

SYLLABUS

Subject Code/ Subject Name : CE-VAC2102/ Solid Waste Management

Duration :30 Hours

OBJECTIVES: • To make the students conversant with different aspects of the types, sources, generation, storage, collection, transport, processing and disposal of municipal solid waste.

Module 1

Sources and types of municipal solid wastes-waste generation rates-factors affecting generation, characteristics-methods of sampling and characterization; Effects of improper disposal of solid wastes-Public health and environmental effects. Elements of solid waste management –Social and Financial aspects.

Module 2

On-site storage methods – Effect of storage, materials used for containers – segregation of solid wastes – Public health and economic aspects of open storage – waste segregation and storage – ca- source reduction of waste – Reduction, Reuse and Recycling.

Module 3

Residential and commercial waste collection – Collection vehicles – Manpower– Collection routes – Analysis of collection systems; Transfer stations – Selection of location, operation & maintenance; options under Indian conditions – Field problems- solving.

Module 4

waste processing – Physical Processing techniques and Equipment's; Resource recovery from solid waste composting and biomethanation; Thermal processing options – case studies under Indian conditions.

Module 5

Land disposal of solid waste; Sanitary landfills – site selection, design and operation of sanitary landfills – Landfill liners – Management of leachate and landfill gas- Landfill bioreactor– Dumpsite Rehabilitation

OUTCOMES:

The students completing the course will have

- an understanding of the nature and characteristics of municipal solid wastes and the regulatory requirements regarding municipal solid waste management
- ability to plan waste minimisation and design storage, collection, transport, processing and disposal of municipal solid waste



P. Sai

HOD/CIVIL