

KRISHNASAMY

College of
ENGINEERING & TECHNOLOGY

Approved by AICTE & Affiliated to Anna University
Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
☎ (04142) 285 601 - 604 🌐 www.kcet.in ✉ info@kcet.in

DEPARTMENT OF CIVIL

13.01.2023

CIRCULAR

Ref.: KCET/CIVIL/VAC/CIRCULAR/2022-23/01.

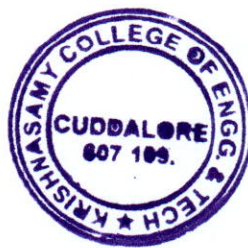
The following Value Added Course will be conducted during the academic year 2022-2023. The course will be conducted from 23.01.2022 to 28.01.2023. Students are instructed to register their names in the course allotted to them.

Note: Students are instructed to attend the program without fail.

S.No.	Course Code	Name of the Course	Year	No. of Period	Course Coordinator
1	CE-VAC2201	SAFETY IN CONSTRUCTION WORKS	IV	30	Er.C.Sureshkumar, AP/CIVIL
2	CE-VAC2202	ADVANCED EQUIPMENTS APPLICATION IN CONSTRUCTION	III	30	Er.V.Thirumurugan AP/CIVIL

P. Pui
13.1.23

HOD/CIVIL

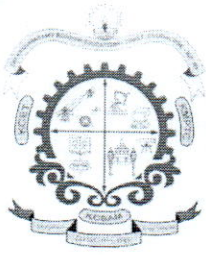


Copy to:

Class Room

Class In charge

Department File



KRISHNASAMY

College of
ENGINEERING & TECHNOLOGY

Approved by AICTE & Affiliated to Anna University
Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
☎ (04142) 285 601 - 604 🌐 www.kcet.in ✉ info@kcet.in

SYLLABUS

Subject Code/ Subject Name: CE-VAC2202 - ADVANCED EQUIPMENTS APPLICATION
IN CONSTRUCTION

Duration: 30 Hours

OBJECTIVE

The main objective of this course is to make the student aware of the various construction equipment needed for different types of construction activities.

MODULE I CONSTRUCTION EQUIPMENTS 6

Site Clearance - Marking - Earthwork - masonry - stone masonry - Bond in masonry - concrete hollow block masonry - - movement and expansion joints - pre cast pavements - - laying brick -- weather and water proof -roof finishes - acoustic and fire protection.

MODULE II SUB STRUCTURE CONSTRUCTION EQUIPMENTS 6

Techniques of Box jacking - Pipe Jacking -under water construction of diaphragm walls and basement-Tunneling techniques - Piling techniques - - shoring for deep cutting -well points - Dewatering and stand by Plant equipment for underground open excavation.

MODULE III SUPER STRUCTURE CONSTRUCTION EQUIPMENTS 6

Launching girders, bridge decks, off shore platforms - special forms for shells - in-situ pre-stressing in high rise structures, Material handling - erecting light weight components on tall structures - Support structure for heavy Equipment and conveyors -Erection of articulated structures, braced domes and space decks.

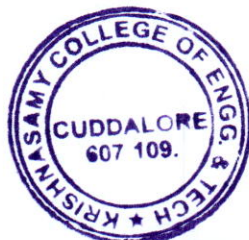
MODULE IV CONCRETING EQUIPMENTS 6

manufacturing of concrete -Batching - mixing - transporting - placing - compaction of concrete - curing and finishing. Testing of fresh and hardened concrete - quality of concrete - Non - destructive testing.

MODULE V ADVANCED EQUIPMENTS 6

Selection of equipment for earth work - earth moving operations - types of earthwork equipment - tractors, motor graders, scrapers, front end waders, earth movers - Equipment for foundation and pile driving. Equipment for compaction, batching and mixing and concreting - Equipment for material handling and erection of structures - Equipment for dredging, trenching, tunneling,

TOTAL: 30 PERIODS



COURSE OUTCOME

At the end of this course the student shall have a reasonable knowledge about the various construction procedures for sub to super structure and also the equipment needed for construction of various types of structures from foundation to super structure.



P. *Qui*

HOD/CIVIL

