



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 2018-2019)

Date: 20.11.2018

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 10.12.2018 to 17.12.2018. The course plan, test procedure, attendance are followed as per regulation 2013. 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/Sem	Code/Name of the subject	Duration in Hours	Subject Incharge
1	IV/VII	CE-VAC1801/Ground Reinforcement Techniques	30	Er.C.Sureshkumar AP/Civil
2	III/V	CE-VAC1802/ Engineering for Wind	30	Er.P.Dhinesh kumar AP/Civil

P. Qui
19/11/18

HOD

Mys
20/11/18

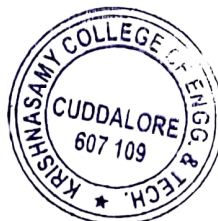
VICE PRINCIPAL

J. Suresh Kumar
PRINCIPAL

Copy to :

Class Room

Class In charge





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SYLLABUS

Subject Code/ Subject Name : CE-VAC1802- Engineering for Wind

Duration :30 Hours

Objective: At the end of this course the student should be able to appreciate the forces generated on structures due to normal wind as well as gusts. He should also be able to analyse the dynamic effects created by these wind forces.

Module1

Introduction -Terminology – Wind Data – Gust factor and its determination - Wind speed variation with height – Shape factor – Aspect ratio – Drag and lift.

Module-2

Effect Of Wind On Structures -Static effect – Dynamic effect – Interference effects (concept only) – Rigid structure – Aeroelastic structure (concept only).

Module- 3

Effect On Typical Structures -Tail buildings – Low rise buildings – Roof and cladding – Chimneys, towers and bridges.

Module-4

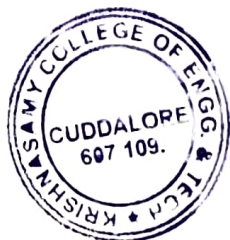
Application to design forces on multi-storey building, towers and roof trusses.

Module5 -

Introduction to wind tunnel Types of models (Principles only) – Basic considerations – Examples of tests and their use.

OUTCOMES: Students will be able to

- Have knowledge and skills on design requirements.
- Understand the methods and management of wind energy and resisting capacity of building.
- Gain knowledge on types of Impounding structures



P. Sai
19/11/13
HOD/Civil