



# 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](http://www.kcet.in)

[info@kcet.in](mailto:info@kcet.in)

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

30.10.2019

(Academic Year 2019-2020)

### CIRCULAR

It is planned to conduct a value added course for III year Electrical and Electronics Engineering students on the subject given below. Each module is scheduled from 23.12.2019 to 28.12.2019. The course plan, test procedure, attendance are followed as per Anna University regulation respectively. 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	III	VAC1902/An Outlook on EHV Power Transmission.	30	Er.N.Purushothaman AP/EEE

  
HOD 30/10/19

  
VICE PRINCIPAL 30/10/19

  
PRINCIPAL 30/10/19

Copy to :

Class Room

Class In charge





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### SYLLABUS

**Subject Code:** VAC1902

**Subject Name:** An Outlook on EHV Power Transmission

**Duration:** 30 Hours

#### Objectives:

The main objective is to learn about to study the various types of EHV power transmission, HVDC links and Flexible power transmission. This course gives the wide view of EHV AC transmission trends and parameter calculation.

#### **Module 1:**

Standard transmission voltages, average values of line parameters – Power handling capacity

#### **Module 2:**

Calculation of line and ground parameters – R, C, L, Bundle conductors, Modes of propagation.

#### **Module 3:**

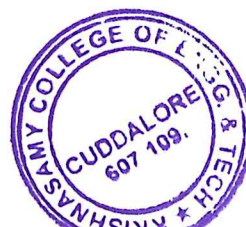
HVDC system-Principle of operation, control and design consideration, HVDC circuit breaking.

#### **Module 4:**

Basic concepts- Reactive power control, uncompensated transmission line, series compensation, SVC, thyristor control.

#### **Module 5:**

Electric shock – threshold currents – Calculation of electrostatic fields and magnetic fields of AC and DC lines – Effect of fields on living organism .





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### COURSE OUTCOMES:

Familiarity with working principles, tools and techniques in the field of EHV Power Transmission .  
Understanding of the strengths, limitations and potential uses.

### TEXTBOOKS:

1. S. No. Name of authors'/books/publisher Year of pub.1 E. W. Kimbark: Direct Current Transmission, Vol. 1, Wiley Interscience.

  
HOD/EEE 29/10/19

