



**KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)**

**NAMAKKAL-TRICHY MAIN ROAD, THOTTIAM, TRICHY -621 215
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Adjunct Faculty Visit and Activities

Academic Year : 2025-26

List of visiting/adjunct faculty/professor of practice and their teaching and practical loads.

S.No	Name of the Person	Designation & Organization	Name of the Course	Course Code & Title	No. of Hours Handled
1	Dr.Dhamodharan S	Lead Active Power Control Engineer, Vestas R&D Chennai Pvt Ltd, chennai	VACEE16 – MBD Application in Power Systems	VACEE16 – MBD Application in Power Systems	45
2			20EE801PE - Electric Energy Generation, Utilization and Conservation – Unit V - Domestic utilization of electrical energy - House wiring. Induction based appliances, Online and Off line UPS, Batteries - Power quality aspects	20EE801PE - Electric Energy Generation, Utilization and Conservation	05
3			20EE801PE - Electric Energy Generation, Utilization and Conservation – Battery Management System and Power Quality Problems		02
4			Class Lecture – IV Year - 20EE801PE - Electric Energy Generation, Utilization and Conservation – Unit I - Calculation of rating of electrical equipment		01
5			Class Lecture – IV Year - 20EE801PE - Electric Energy Generation, Utilization and Conservation – Unit I - Renewable energy : Solar and Wind mathematical modelling		01
6			Class Lecture – IV Year - 20EE801PE - Electric Energy Generation, Utilization and Conservation – Unit I - single phase and three phase induction motor in MATLAB		01
7			Class Lecture – IV Year - 20EE801PE - Electric Energy Generation, Utilization and Conservation – Unit I - Single phase and Three phase Inverter System		01



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8	Dr.Dhamodharan S	Lead Active Power Control Engineer, Vestas R&D Chennai Pvt Ltd, chennai	Class Lecture – IV Year - 20EE801PE - Electric Energy Generation, Utilization and Conservation – Unit I - Power Quality: Power factor and THD		01
9			IV Year - 20EE801L - Project Work – Project guidance to the students	20EE801L - Project Work	03
10			IV Year - 20EE801L - Project Work – Project guidance using MATLAB: Utilize GitHub Copilot and ChatGPT for model development, coding, and documentation. Implement an AI-based MATLAB example using the air conditioner model developed above. Design and build the electrical power system, analyze the voltage drop under various operating conditions, and implement appropriate compensation techniques to maintain voltage levels and improve system performance.		05
11			20EE701PE - Power System Transients – Wind Power Plant Introduction, Components of wind power plant, Types of wind power plant, grid connected wind plant, Transients study grid connected time wind plant, Task related to various types of transients	20EE701PE - Power System Transients	07
12			20EE701PE - Power System Transients – static power system analysis using load flow and transient fault analysis		05
13			20EE701PE - Power System Transients – Transients tests in single phase system, transient analysis in induction motor connected in various applications.		03



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14	Dr.Dhamodharan S	Lead Active Power Control Engineer, Vestas R&D Chennai Pvt Ltd, chennai	20EE701PE - Power System Transients – Basics of transients, Transient analysis using MATLAB, Split phase induction motor and Transient study in various electrical applications		04
15			20EE501 - Power System Analysis – Design of load flow analysis in power world simulator.	20EE501 - Power System Analysis	03
16			20EE501 - Power System Analysis – Power World Simulator Application usage in Power System		03
17			20EE501 - Power System Analysis – Gauss Seidel Theory and Problems		04
18			20EE501 - Power System Analysis – Types of Power system (Mesh and Radial), Per unit representation, Types of Buses and Identification of data buses and transmission line parameters		05
19			20EE501 - Power System Analysis – Design of Ybus matrix using Power World Simulator		02
20			24EE303 – DC Machines and Transformers – Speed control of DC motor, Braking of DC motor, Losses and efficiency of DC motor, Testing of DC Machines and Application of DC motor	24EE303 – DC Machines and Transformers	05
21			24EE303 – DC Machines and Transformers – Construction of transformer and Load and No load test of transformer		03
22				VACEE16 – MBD Application in Power Systems	
Total No. of Hours					154