



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to Anna University, Chennai)

Madurai - Sivagangai Highway, Arasanoor, Thirumansolai Post, Sivagangai Dt. - 630 561, Tamilnadu
Mobile : 9842102628, 7373002628 Email: info@psyec.edu.in Website : www.psyec.edu.in

City Office : 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile : 98423-02628

ICT ENABLED LECTURE HALLS

The college promotes a dynamic learning environment, where innovation thrives and knowledge is paramount. Students engage in collaborative projects and research, Harnessing ICT to explore new frontiers and emerge.

E-learning platforms and virtual classrooms expand. From coding workshops to interactive seminars, they cultivate skills for the digital era's demands.

Guided by dedicated faculty and cutting-edge tools, they navigate complexities and expand their intellectual pools. With online resources and virtual labs at their command, they chart their academic journeys, empowered and grand

In ICT-enabled lecture halls, the future of learning unfolds, Where traditional walls blend with tech that molds. LCD screens beam knowledge with pristine clarity, OHPs and laptops enhance the lecture's verity.

Wi-Fi waves pulse through the air, connecting minds from here to anywhere. From PowerPoint prowess to live-streamed lore, Interactive boards amplify what's in store. An ecosystem where innovation thrives and calls, Welcome to the realm of ICT-enabled lecture halls.

Faculties and students utilize open-source online video lectures and learner-centric MOOCs through the NPTEL and SWAYAM portals to actively participate in the knowledge economy. The library offers electronic resource packages such as DELNET and SPOKEN TUTORIAL.

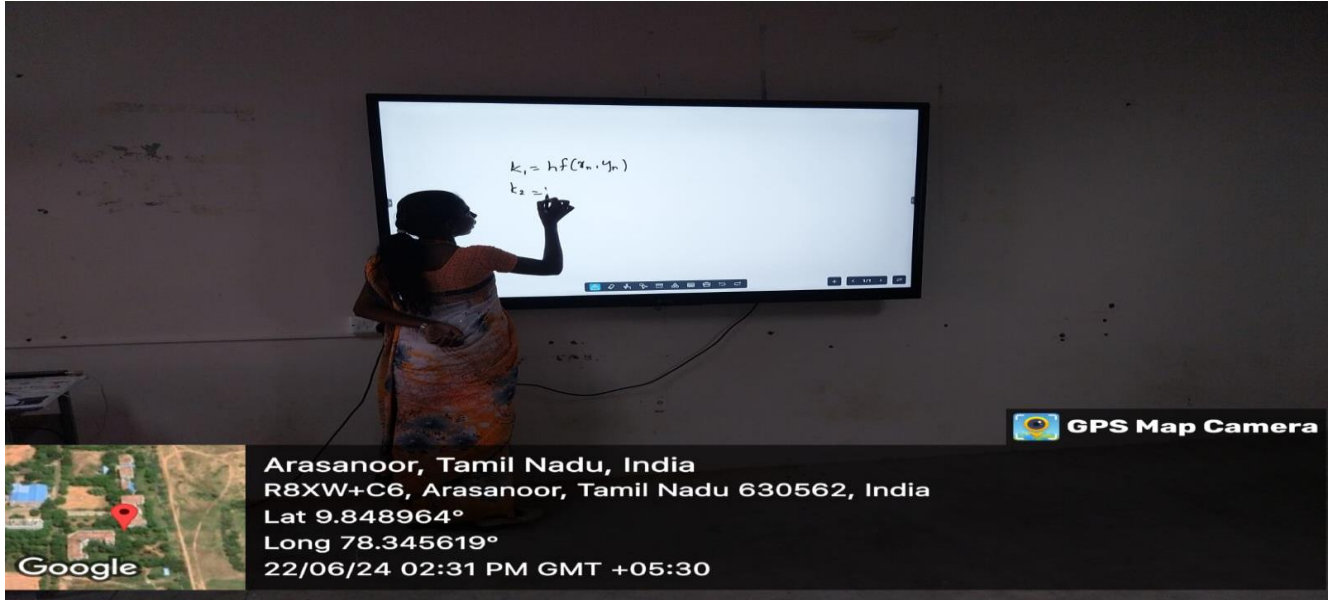


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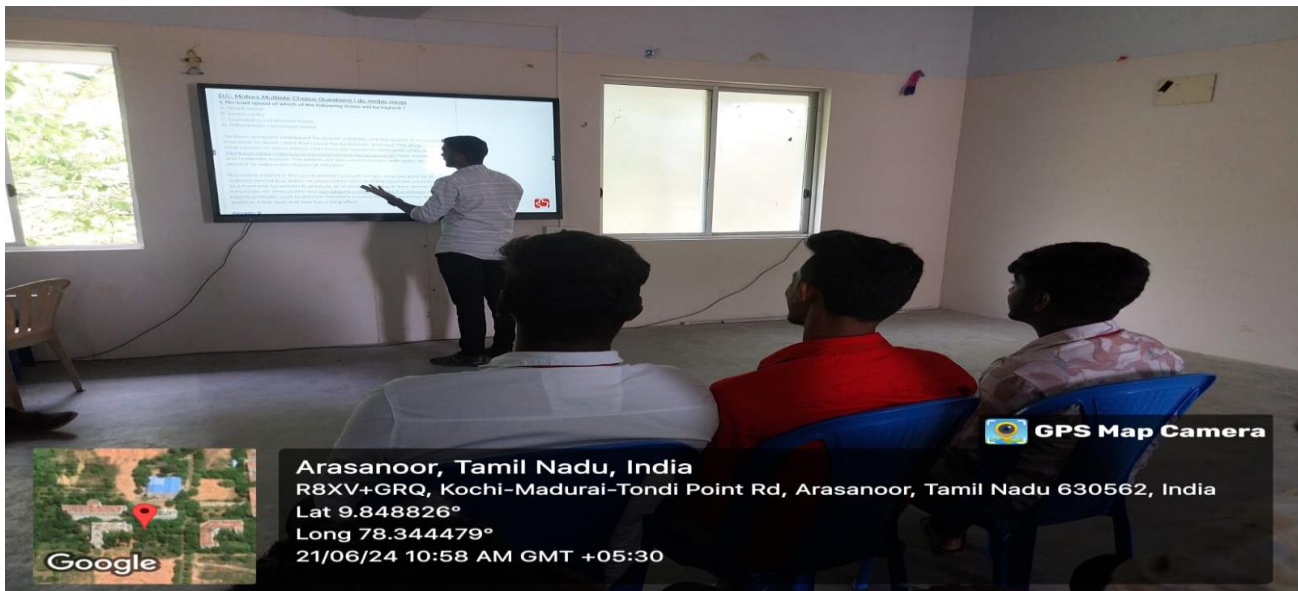
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GLIMPSE OF INSIDE VIEW – DEPARTMENT OF SCIENCE AND HUMANITIES



GLIMPSE OF INSIDE VIEW – DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



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An Initiative of
Ministry of Education
Under the National Mission
on Education through **ICT**



Electrical Engineering

[Home](#) » [Broad Areas of Virtual Labs](#)

Analog Signals, Network and Measurement Lab

[Reference Books](#) ▼

[Syllabus Mapping](#) ▼

IIT KHARAGPUR

Basics of Pneumatic Components Lab

[Reference Books](#) ▼

[Syllabus Mapping](#) ▼

COE PUNE

Electrical Machines (COEP) Lab

[Reference Books](#) ▼

[Syllabus Mapping](#) ▼

COE PUNE



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Virtual Power Laboratory-D.E.I.



HOME



EXPERIMENTS



BASIC EQUIPMENTS



MEASUREMENTS



CHARACTERISTICS



LAB SAFETY



FEEDBACK



DEE POWERLAB

Objective

Equipments

Connection Diagram

Theory And Procedure

Observation

Simulation

Videos of Exp.2

Quiz

Theory and Procedure of the Experiment - 2

(a). Slip Test

1. Check the phase sequence and voltage of the synchronous machine and the bus bar.
2. Remove the field excitation and connect RYB terminals of machine to RYB of bus bar through a three phase variac.
3. Start DC motor and adjust its speed near to synchronous speed, switch on the AC supply and apply a small voltage. The voltmeter connected across field winding should fluctuate and remains within the rated value, if the slip is small and direction of rotation is correct. The armature current should also fluctuate.
4. Increase the AC voltage applied to the armature from the variac, such that maximum current is nearly equal to the rated full load current of the armature.
5. Note down the maximum and minimum value of armature applied voltage and current.
6. Calculate the applied voltage per phase ($V_p = V_1 / \sqrt{3}$).
7. Record the readings for different applied voltage.

(b). Maximum lagging current test for determination of X_q

1. First run the synchronous machine as an alternator with the help of prime mover (dc machine) and synchronize it with bus bar.
2. Switch off the DC supply to the motor so that the synchronous machine will run as a synchronous motor.
3. Gradually reduce the excitation to zero.
4. Reverse the field connection with the help of DPDT switch.
5. Increase the excitation slowly in the negative direction till the machine shows sign of falling out of step. Note this field current, also note the line current.

Static test for determination of Sub-transient reactance



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BASIC EQUIPMENTS



MEASUREMENTS



CHARACTERISTICS

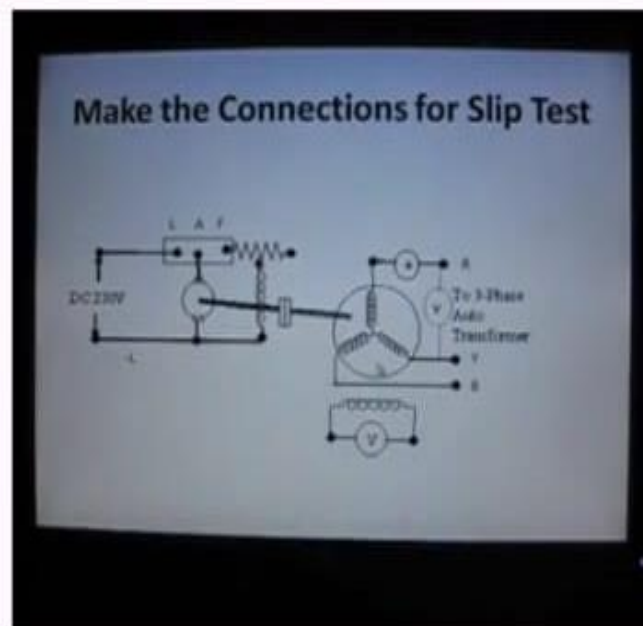


LAB SAFETY



FEEDBACK

Experiment 2. To determine the direct axis reactance (X_d) and quadrature axis reactance (X_q) of synchronous machine.





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suganya31m@gmail.com ✓

A Basic Course on Electric and Magnetic Circuits

By Prof. Ashok Kumar Pradhan | IIT Kharagpur

Join

Learners enrolled: 1191 | Exam registration: 7





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SWAYAM

An initiative by Ministry of Education (Govt. of India)



suganya31m@gmail.com

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Prof. Pooja Garg

IIT Roorkee



NPTEL

12 Weeks (Starts: 22-07-2024)

Enrollment Ends: 29 Jul, 2024

Exam Date: 2 Nov, 2024

Exam Registration Ends: 16 Aug, 2024



Advance Power Electronics and Control

Prof. Avik Bhattacharya

IIT Roorkee



NPTEL

8 Weeks (Starts: 22-07-2024)

Enrollment Ends: 29 Jul, 2024

Exam Date: 21 Sept, 2024

Exam Registration Ends: 16 Aug, 2024

NPTEL COURSE

ABOUT THE COURSE:

This is a basic course on electric and magnetic circuits suitable for any first-year undergraduate engineering program. It covers the analysis of DC circuits, AC circuits using the phasor concept, three-phase circuits, magnetic circuits and transformer-equivalent circuits. In all the chapters, it explains the concepts lucidly, like reactive power in time and phasor domains and negative wattmeter readings in three-phase circuits. It provides a comprehensive way to solve circuit problems. Overall, the course focuses on simple methods to solve different circuit problems, including transformer as a magnetic and electric circuit.

INTENDED AUDIENCE: B.Tech. first year students of all engineering colleges and universities

INDUSTRY SUPPORT: This is not an application oriented course.

Summary

Course Status : Upcoming

Course Type : Core

Duration : 12 weeks

Category : Electrical, Electronics and

Communications Engineering



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GOOGLE CLASSROOM

The screenshot shows the Google Classroom interface. At the top, it says "Classroom" with a menu icon on the left and a "+" icon on the right. Below this is a grid of course cards. Each card has a colored header with a course code and title, and a white body with a graph icon and a document icon at the bottom. The courses shown are:

- 21PS260 - POWER SY...
- MG8591 - PRINCIPLE...
- EE8701- HIGH VOLTA...
IV year / VII semester
- EE3006 - POWER OU...
II year / V SEM
- GE3271-ENGINEERIN...
CSE AND AI - I YEAR/II SEMESTER
- EC3311- Electronic D...
ECE II year
- EE3403 - Measureme...
ECE III year
- EI8073 - Biomedical L...
ECE IV year
- EE8601- Solid state d...
ECE III year
- EC3301- Electron dev...
ECE II year III semester
- EC3353-Electronic d...
ECE - II year III semester
- OMD551-Basics of Bi...
ECE - III year (5th semester)
- BE3251-Basic electric...
MECH, CSE & AI
- EE8002 -Design of el...
ECE III year

The screenshot shows the "People" tab of a Google Classroom course. The course is titled "BE3251-Basic electrical and electronics engineering" and is for "MECH, CSE & AI". The "People" tab is selected, showing a list of 86 students. The list includes a search bar, a sort icon, and a list of student names with their profile pictures and a three-dot menu icon to the right of each name.

Student Name
Aarwinsanjay
Ayyanar
Balapearl
Deva
Dharshan
Gayathri
Ilekkiya
Jeyadharsini
Karuppusamy
Kathirvel karuppalah
maha
R.Kumar



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GOOGLE CLASSROOM CLASSWORK

The screenshot displays the Google Classroom interface for a class titled "BE3251-Basic electrical and electronics engineering" (MECH, OSE & AI). The "Classwork" tab is active, showing a list of items under two sections: "CLASS NOTES" and "INTERNAL EXAM".

Item Name	Action	Date
NOTES 1 - UNIT I	Edited	Apr 8
Notes 2 - UNIT I	Edited	Apr 8
Notes 3 - UNIT I	Edited	Apr 8
Internal Exam revision 1 - UNIT I	Edited	Apr 8
Internal exam revision 2 - UNIT I	Edited	Apr 8
UNIT II O&A	Edited	May 1
UNIT II diagrams	Edited	Mar 16

Item Name	Action	Date
unit test iii answer key CSE	Posted	May 11
Unit Test I Question paper CSE	Edited	Apr 7
Unit Test I Answer key MECH	Posted	Apr 7
Unit test II b sec	Posted	May 11