

INNOVATIVE AND BEST PRACTICES IN THE DEPARTMENT

Environment consciousness

- Energy Audit
- Green Audit
- Public awareness Rally's

Innovative Practices

- Project based learning and experiential learning
- Peer mentoring
- Compulsory Internship to marine industries
- Green Card Systems
- Remedial classes
- Student Centric Learning
- Implementation of Outcome Based Education
- Community Development Program
- Extension Activities

INNOVATIONS BY THE FACULTY IN TEACHING AND LEARNING

Instructional Materials Developed by Faculty

S. No	Topic Covered	Name of the Faculty	Link
1	Review of Electrical Engineering	Mr. S. Janarthanan	https://www.youtube.com/watch?v=8hSjtF32Mek
2	DC Circuit Breaker and its applications	Mr. S. Janarthanan	https://www.youtube.com/watch?v=9W2GDN-xsEU
2	Electrical drive system	Mr. S. Janarthanan	https://www.youtube.com/watch?v=2ItBNF-y48I&t=27s
3	PSP-Communication Networks	Dr. D. Lakshmi	https://youtu.be/FsV4a2VPokQ
4	Electrical Power system circuit-distribution and electric supply system and IGBT Working	Dr. M. Deva Brinda	https://youtu.be/XIJZA8qFUoA
5	Equal area criterion	Dr. M. Deva Brinda	https://youtu.be/Ficzr208AXg
6	SCADA	Mr. P. Veerakumar	https://youtu.be/GGEWM8ZQDwY
7	Temperature sensors	Mr. P. Veerakumar	https://youtu.be/G6ccCIS6igY
8	Moving iron and Moving Coil Instrument- principle of operation	Dr. G. Themozhi	https://youtu.be/MDzQq4jbr1M
9	Controllers used in Power systems and power Electronics	Ms. G. Jegadeeswari	https://youtu.be/XYy7zDycTj8
10	PID controllers and tuning techniques	Ms. G. Jegadeeswari	https://youtu.be/bzVOIsrhVGs
11	Hysteresis current controllers	Ms. G. Jegadeeswari	https://youtu.be/rBQi-zM3jMY
12	SCADA applications	Mrs. R. Elavarasi	https://youtu.be/U0nH9KcQBsm
13	Lecture on Single phase Transformer	Mrs. R. K. Padmashini	https://youtu.be/jDfuWAisTRU
14	Sensors and Transducers	Dr. T. Baldwin Immanuel	https://youtu.be/zqax2YIBC9c
15	Introduction to PMBLDC	Dr. V. Karthikeyan	https://www.youtube.com/watch?v=qy2NatFXBRQ&t=187s
16	EMF and Torque equation of BLDC	Dr. V. Karthikeyan	https://www.youtube.com/watch?v=V-59hXOj8Xc&t=24s
17	Digital Electronics	Dr. T. Sasilatha	https://youtu.be/xCcILGBKuFs

Video Lectures given by the faculty

S. No	Name of the Faculty	Name of the Module	Platform on which module is developed
1	Dr. T. Sasilatha	Analog Communication	https://www.youtube.com/watch?v=Rn5JKBdWgCc
2		Design Of Combinational Circuits	https://www.youtube.com/watch?v=HH2aKOofCaw
3	Dr. V. Karthikeyan	Closed loop control of Switched Reluctance Motor	https://www.youtube.com/watch?v=4gC4RjYWbfk
4		Inverters	https://www.youtube.com/watch?v=tP_QcCHhGBg
5		Introduction to Power Electronics	https://www.youtube.com/watch?v=hEsXGBvCXHw
6	Dr. G. Themozhi	Multiple Access Techniques	https://www.youtube.com/watch?v=5aFyjeIevSY
7	Mrs. R. Elavarasi	Transformer	https://www.youtube.com/watch?v=YuLDDSG8NLA
8		Power Electronics, High Voltage and Electric Propulsion	https://www.youtube.com/watch?v=ovbMn-hXjlQ
9		Power Generation Systems for Onboard Ship	https://www.youtube.com/watch?v=I5_vMfLnZSs
10	Mr. P. Veerakumar	Motor Starters and Speed Control of Induction Motor.	https://www.youtube.com/watch?v=I-275rV8jpo
11		Programmable Logic Controllers By Mr. P. Veerakumar	https://www.youtube.com/watch?v=RmixjBFcmxE
12		Nodal Analysis	https://www.youtube.com/watch?v=cwSgYge46iM
13	Mrs. G. Jegadeeswari	Fundamentals of Electric Drives	https://www.youtube.com/watch?v=OKEI1w3ENqw
14		Electrical Machines	https://www.youtube.com/watch?v=kZRNBPvpFnU
15		Special Electrical Machines	https://www.youtube.com/watch?v=KzasSMh6C-w
16	Dr. C. Gnanavel	Stepper Motor	https://www.youtube.com/watch?v=b-X4i1wxYwI
17	Dr. Baldwin Immanuel	Brushless Alternator	https://www.youtube.com/watch?v=6dl7E0UsNiY
18		Measurement of Insulation Resistance	https://www.youtube.com/watch?v=bfTAGmIVPuQ
19		Types of Electric Circuit	https://www.youtube.com/watch?v=H45K-bSFMjA
20	Ms. R K Padmashini	Maxwell's Equation and Poynting Theorem	https://www.youtube.com/watch?v=3f20YVclTmo
21		Root Locus Techniques	https://www.youtube.com/watch?v=7T8iMg4ItC0
22	Dr. M. Deva Brindha	High Voltage on Merchant Ships	https://www.youtube.com/watch?v=YVNQJy9asEM
23	Mr.K.Manikandan	Mesh Analysis Method	https://www.youtube.com/watch?v=TcbtlwzBeV0

Model /Demo Created by the faculty

S. No	Name of the Faculty	Name of the Module	Platform on which module is developed
1	Mrs. G. Jegadeeswari	Making of DC Motor- Model & Demo	https://www.youtube.com/watch?v=5wvUBzfNugE
2	Dr. S. Priya	First order system	https://www.youtube.com/watch?v=fgiGTqp1vAs