

Sheet

Sl No.	Program Name	Semester	Year
01	Communication With Confidence	3 rd	2023-24
02	Communication With Confidence	3 rd	2024-25
03	IoT And Its Application	5 th	

2024 - 25



BAPUJI EDUCATIONAL ASSOCIATION(R)

BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANAGERE
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

A SKILL DEVELOPMENT PROGRAMME ON

" COMMUNICATION WITH CONFIDENCE "

PROGRAM COORDINATOR

Dr M S Nagaraj

RESOURCE

INNOVATION UNLIMITED,
BENGALURU

ALL THE THIRD SEMESTER STUDENTS OF
ELECTRICAL AND ELECTRONICS DEPARTMENT
ARE CORDIALLY INVITED

NOVEMBER 2024

19th to 24th

● ————— ● (L) 9:00am-5:00pm

**Venue : Swami Vivekananda
seminar hall**

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI – 590 018, KARNATAKA



FIVE-DAYS SKILL DEVELOPMENT PROGRAMME
On
“IoT AND IT’S APPLICATION”

Submitted in partial fulfillment of the requirements for the award of degree of
BACHELOR OF ENGINEERING
In
ELECTRICAL & ELECTRONICS ENGINEERING

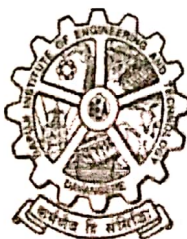
ASSOCIATES

5TH SEMESTER STUDENTS

In charge Coordinator

Mr. Prashant Kumar H K

Assistant Professor
Department of E & E
BIET, Davangere



HEAD OF THE DEPARTMENT
Dr. M S NAGARAJ

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, BAPUJI

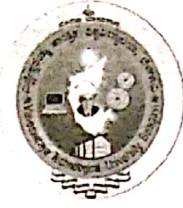
INSTITUTE OF ENGINEERING AND TECHNOLOGY,

(Affiliated to Visvesvaraya Technological University),

Shamanur Road, Davangere- 577004, Karnataka,

Year: 2023-2024.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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MINI PROJECT WORK

"GAS DETECTOR SYSTEM"

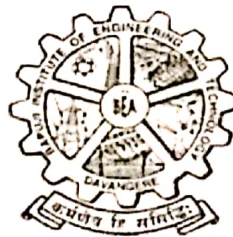
IPCC-Microcontroller Course (BEE403)
BACHELOR OF ENGINEERING In ELECTRICAL AND
ELECTRONICS ENGINEERING

Guide

Mr.T.S.Karibasavaraju
Assistant Professor

Project Associates

BHAVANI V R	4BD23EE400
PRIYANKA G B	4BD22EE044
VINUTHA B P	4BD23EE405
KRUTHIKA S M	4BD22EE031
AMRUTHA K N	4BD22EE002



Head of the Department

Dr. M. S. NAGARAJ

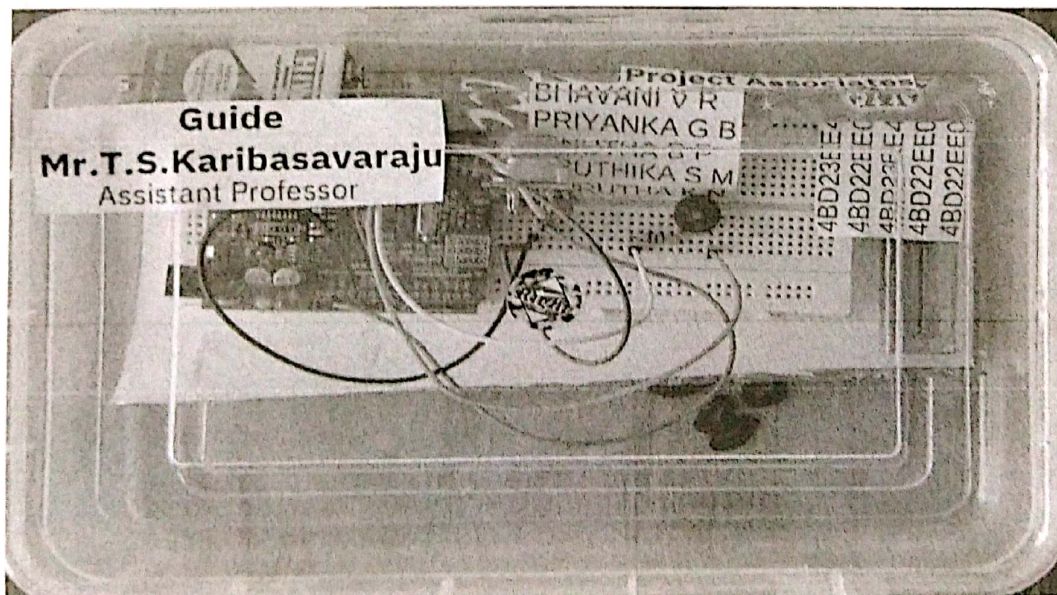
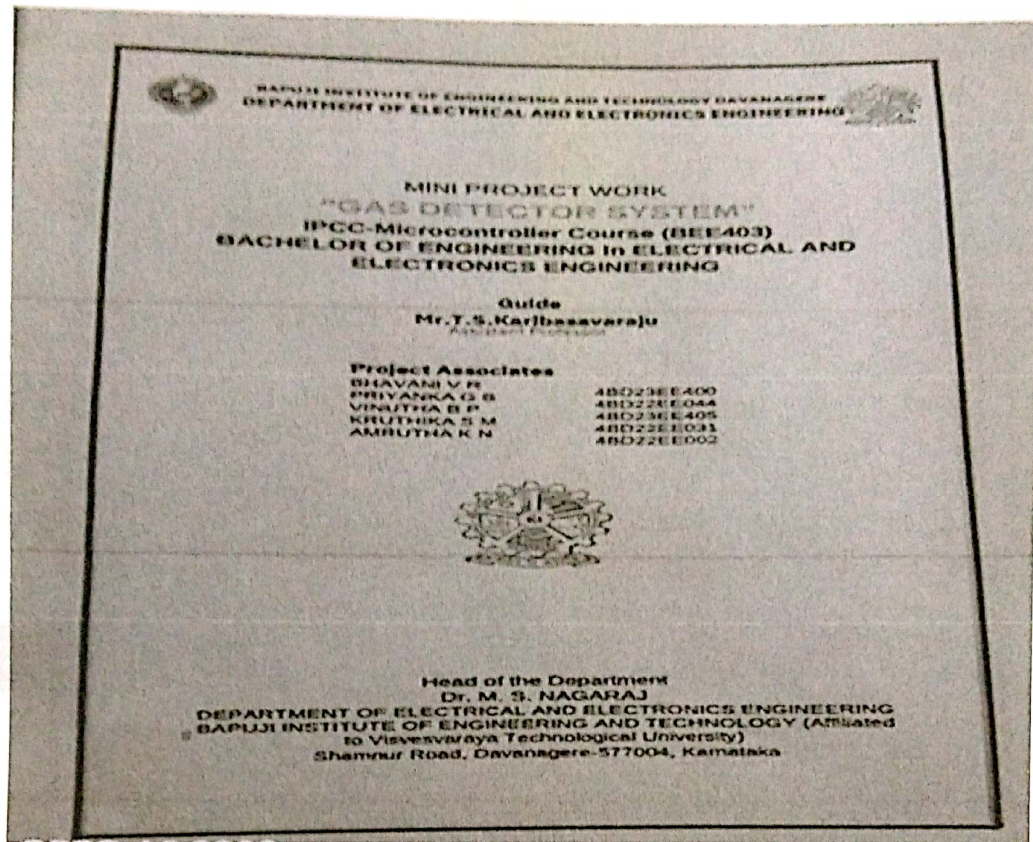
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY (Affiliated

to Visvesvaraya Technological University)

Shamnur Road, Davanagere-577004, Karnataka

Course modules developed by the students

Year-2024-25



VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI – 590 018, KARNATAKA



Micro controller project
On
“AUTOMATED PLANT WATERING SYSTEM”
IPCC-Microcontroller Course (BEE403)
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Submitted By

ADARSH R P	4BD22EE001
DIHANAMMA PAWALE	4BD22EE014
FARHANA R S	4BD22EE018
PRIYANKA N	4BD22EE045
PRIYANKA P C	4BD22EE046
SAMAH S	4BD22EE051
MAHESHWARI S PATIL	4BD22EE033
TEJASWINI RM	4BD22EE059
DHEERAJ J R	4BD23EE401

Under the Guidance of
Mr. Karibasavaraju T S
Assistant Professor

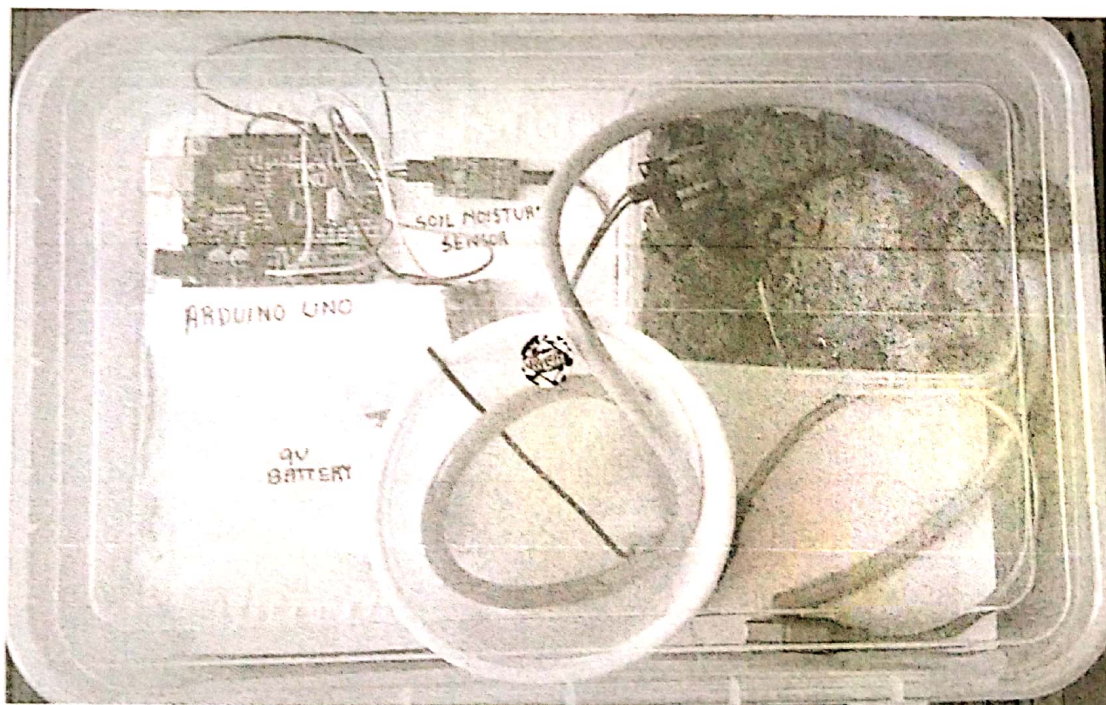


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BELAGAVI – 590 018, KARNATAKA



Microcontroller Project

On

“FIRE DETECTION AND ALARAM SYSTEM ”

IPCC-Microcontroller Course (BEE403)

BACHELOR OF ENGINEERING
in
ELECTRICAL AND ELECTRONICS ENGINEERING

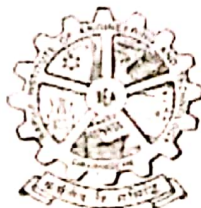
Submitted By

MOHAMMED TALHA	4BD22EE036
SANJAY NAIK A	4BD23EE404
NAVEEN KUMAR K M	4BD22EE038
GURUMURTHY M V	4BD22EE020
KEERTHI A R	4BD22EE028
HALLADA CHANDU	4BD23EE402
NIKHIL C K	4BD22EE039

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BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Shamanur Road, Davangere-577004, Karnataka

Year: 2024

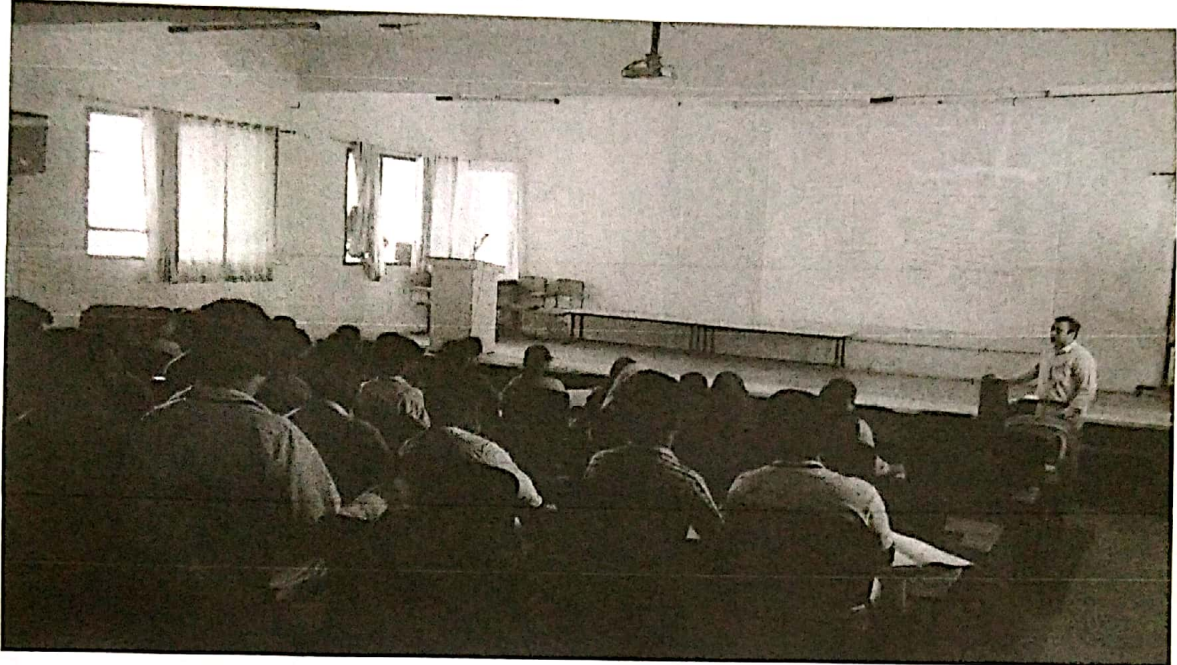
Vedion classes
online lab link

Video Classes: VTU E-Resource -elearning.vtu.ac.in

Online Lab Links for electrical -www.circuitlab.com

www.vlab.co.in

Ppt classes on "Electric Vehicle and Technology" handled by Dr.Manjunath.H.M for 7th Sem EEE students.



Ppt classes on "Engineering Management and Entrepreneurship" handled by Dr.Anjaneya.L.H for 5th Sem EEE students.

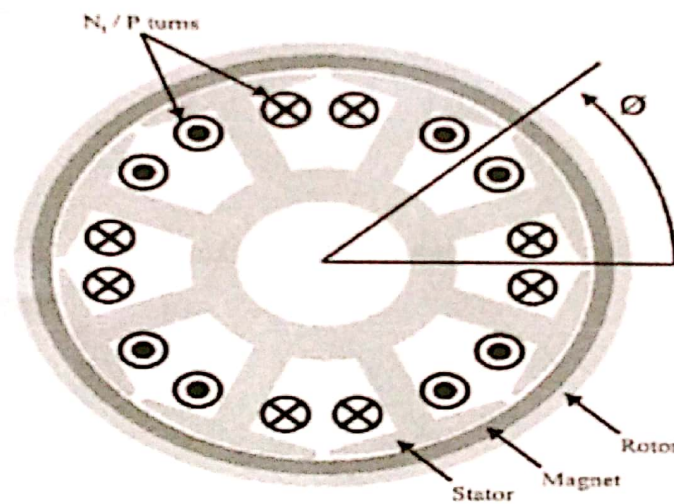
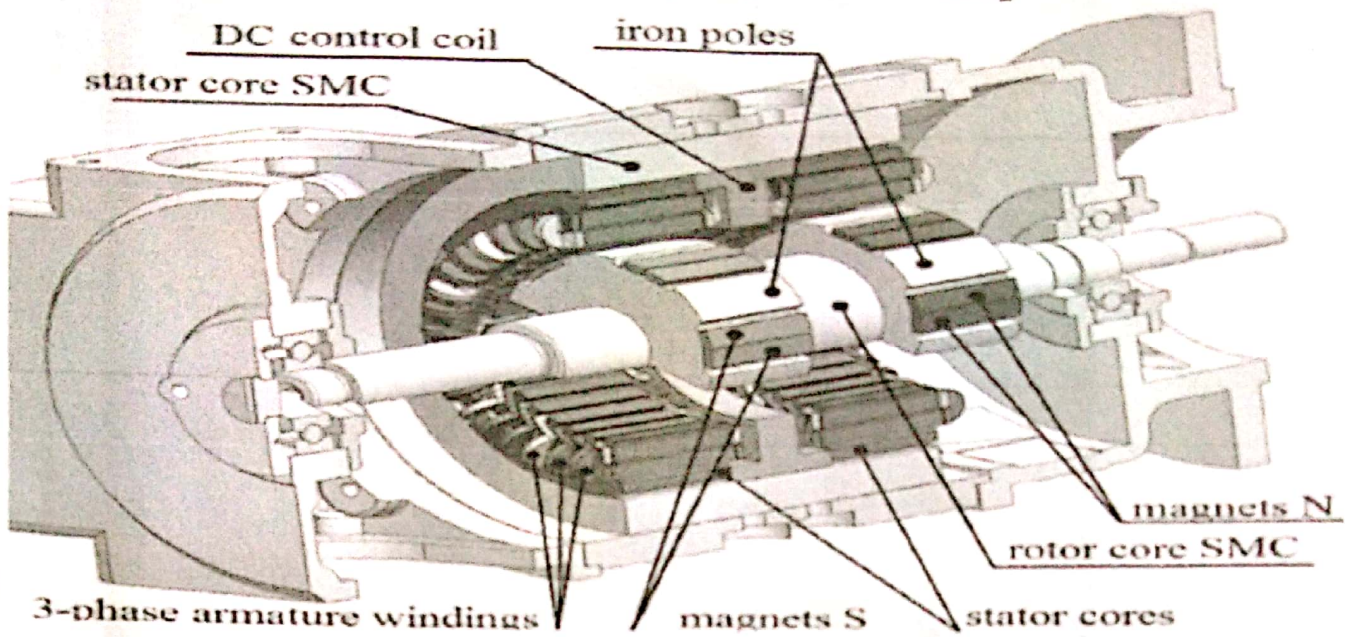


Ppt classes on "Electric Circuit Analysis" handled by Dr.M.S.Nagaraj for 3rd Sem EEE students.



Prototypes/Machine Cut Sections

(Electric Controlled Permanent Magnet Synchronous Machine)

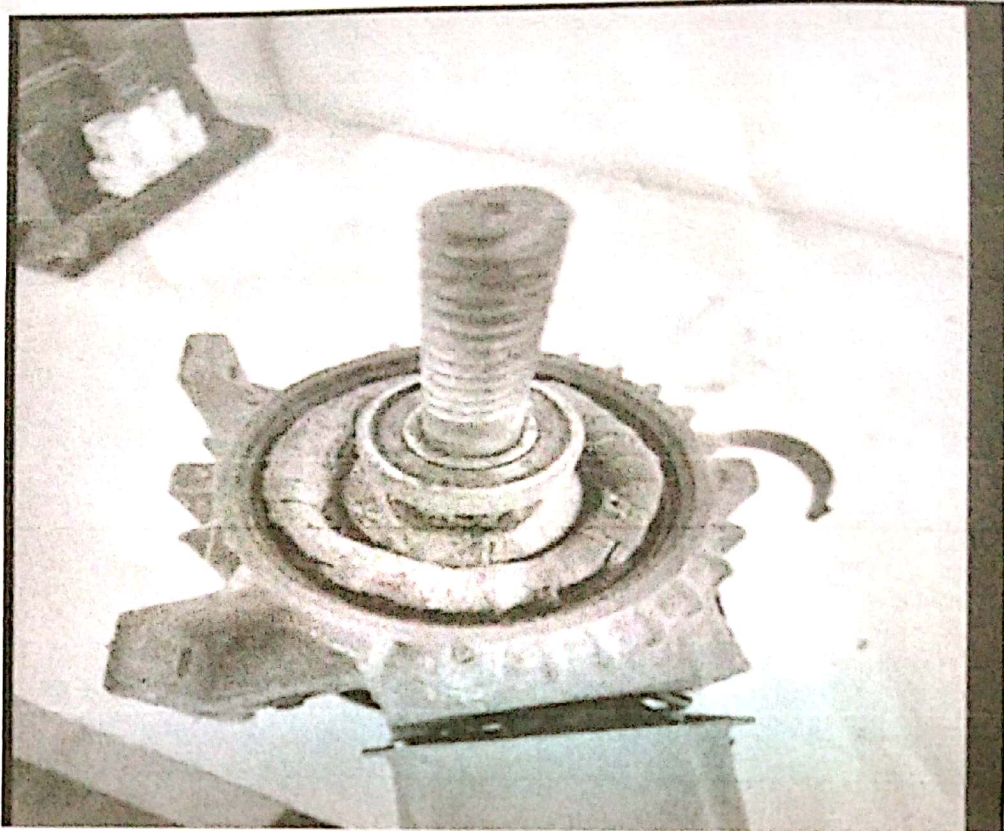


Number of poles, P	8	Stack length, l	30 [mm]
Number of turns, N_t	640 [turns]	Air gap length, g	0.5 [mm]
Stator radius, R	80 [mm]		

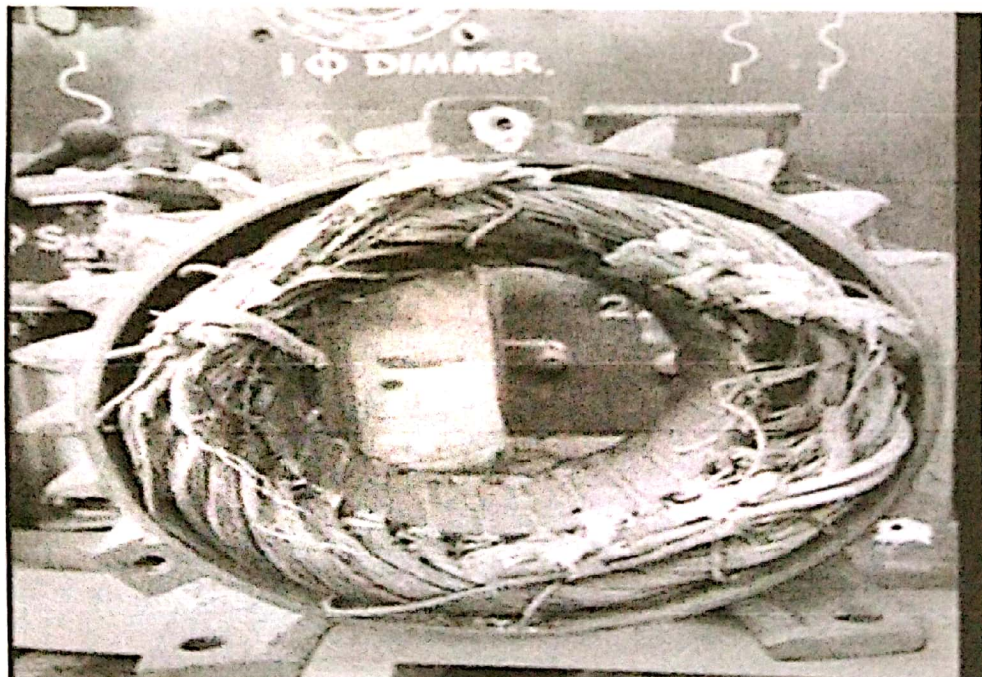
Outer rotor angle	With outer rotor		Without outer rotor	
	Time constant τ [ms]	Inductance L [mH]	Time constant τ [ms]	Inductance L [mH]
0	1.08	20.95		
90	1.02	19.79		
180	1.02	19.79	1.15	22.31
270	1.04	20.18		
Average	1.04	20.18		

Fig: Machine Cut Sections

Single Phase Induction Motor



Single Phase Induction Motor Winding



Ino

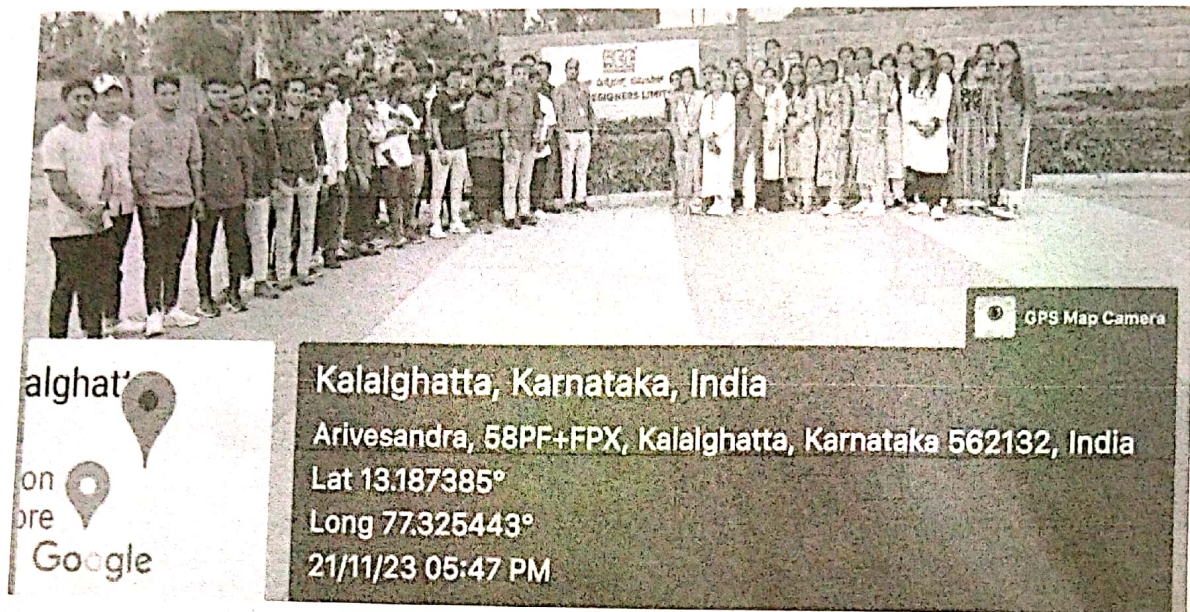
Sl No.	Place Name	Semester	Year
01	Study of 220/66kv Sharavathi Receiving Station(SRS), Davanagere	6 th	2021-22
02	Study of 400/220kv GI/AI Receiving Station Hiremallanahole,Jagaluru(Tq), Davanagere	5 th	2022-23
03	Varahi Power Plant	7 th	2023-24
04	BHEL & Shivanasamudra Solar Power Plant	5 th	2024-25

Year-2023-24

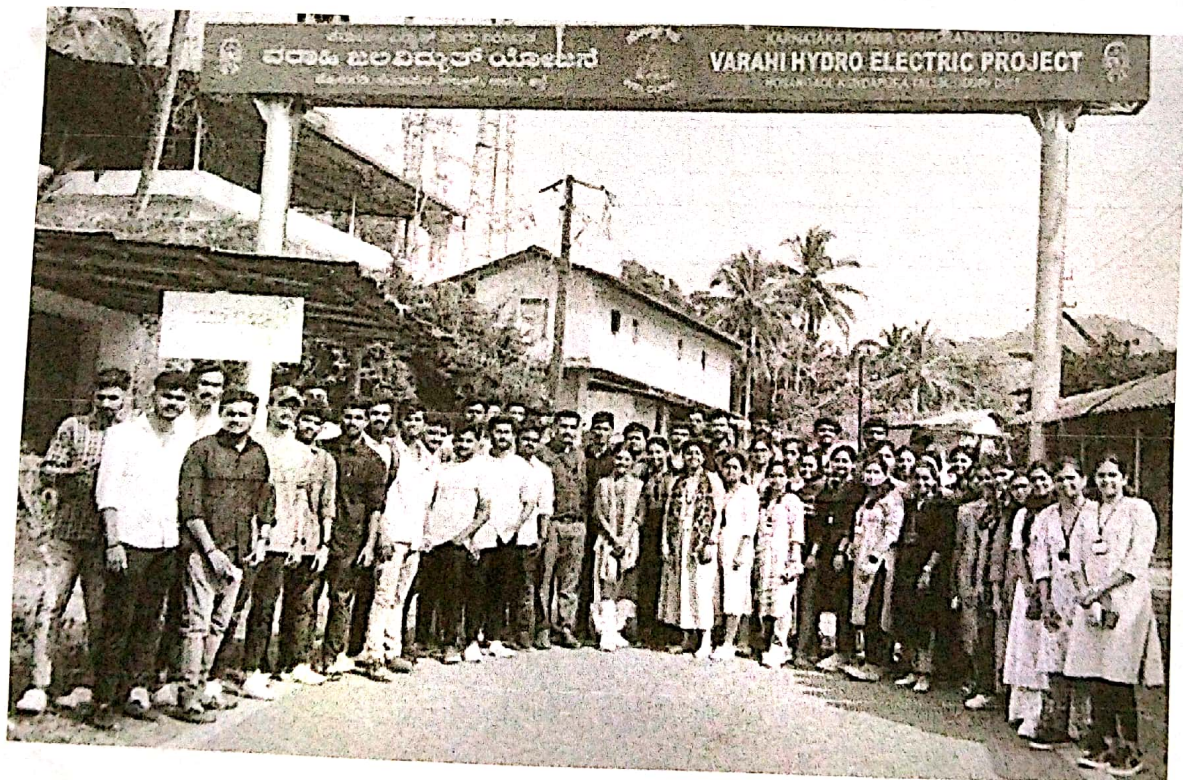
Our EEE branch students Visited 400/220Kv, Gas Insulated Substation, Hiremalnavale on 06-01-2023.



Our Electrical branch 5th semester students has visited PLC and SCADA Plant at Ace Designares at Banglore on 21st November 2023.



Our Electrical branch 7th semester students has visited VARAHI HYDRO ELECTRIC POWER PLANT at Udupi on 8th December 2023.



Year-2024-25

Our Electrical branch 5th semester students has visited BHEL at Banglore on 9th December and Shivana samudra Solar Power Generation Plant at Mandya on 10th December 2024.





Quiz

Course Title	Research Methodology and Intellectual Property Rights	Course Code	BRMK557
Course Coordinator	Dr. Basavarajappa S. R.	Semester	V
Quiz	1	Max. Marks	10
Date	16/11/2024	Time	09:00 am to 10:00 am

Course Outcome Statements: After the successful completion of the course, the students will be able to

CO1	Know the meaning of engineering research.
CO2	Know the procedure of literature review and technical reading.
CO3	Know the fundamentals of patent laws and drafting procedure.
CO4	Understanding the copyright laws and subject matters of copyrights and designs.
CO5	Understanding the basic principles of trademarks, acts and laws.
CO6	Understanding the basic principles of design rights and geographical indications.

Q. No.	Note: Answer all questions.	Marks	CO	RBI
1	Copyright Act came into force in the year (a) 1957 (b) 1999 (c) 2000 (d) 1970	1	04	L1
2	Which of the following can you copyright? (a) Literary work (b) Ideas (c) Choreographic work (d) Fashion	1	04	L2
3	Which of the following is not an intellectual property law? (a) Copyright Act, 1957 (b) Patent Act, 1970 (c) Customs Act, 1962 (d) Trademark Act, 1999	1	04	L2
4	The validity of Copyright in published literary, dramatic, musical and artistic work is (a) Life time plus 10 years (b) 20 years (c) Life time (d) Life time plus 60 years	1	04	L2
5	What is the minimum punishment for copyright infringement in case of a second and subsequent? (a) Imprisonment 9 months + fine of Rs. 5000 (b) imprisonment 6 months + fine of Rs. 5000 (c) Imprisonment 1 year + fine of Rs. 1 lakh (d) Imprisonment 2 years + fine of Rs. 2 lakhs	1	04	L2
6	The following intellectual property rights are protectable in the software related to a computer program: (a) Trade Mark (b) Patent (c) Copyright (d) All of the above	1	05	L2
7	Which of the following identifies as a trademark? (a) Name, symbol (b) Symbol, logo (c) Logo, name (d) Name, symbol, logo	1	05	L2
8	Trademarks eligibility criteria are (a) Distinctiveness (b) Descriptiveness (c) Similarity to the prior marks (d) All of the above	1	05	L1
9	Trademark classification comprises of 45 classes, out of which: (a) 38 classes of goods and 7 classes of services (b) 34 classes of goods and 11 classes of services (c) 40 classes of goods and 5 classes of services (d) 28 classes of goods and 17 classes of services	1	05	L2
10	'A Trade Mark is perpetual in nature'. Which of the following options is correct with respect to this statement? (a) It is subject to renewal every 10 years (b) Its protection lasts till the death of the owner (c) It becomes publici juris after a period of 10 years (d) None of the above	1	05	L2

Course Coordinator

Coordinator - DAAC

Program Coordinator



Bapuji Educational Association 90
Bapuji Institute of Engineering and Technology, Davangere 577 004
Department of Electrical & Electronics
Quiz



Course Title	Power System Operation and Control	Course Code	21EE72
Course Coordinator	Dr. Basavarajappa S. R.	Semester	VII
Quiz	1	Max. Marks	10
Date	13 / 12 / 2024	Time	10:30 am to 11:30 am

Q.No.	Note: Answer all questions.	Marks	CO	RBL
1	An overexcited synchronous machine operated as generator or motor generates (a) kVA (b) kVAR (c) kW (d) kV	1	04	L1
2	When an overhead line is loaded below its SIL, the line (a) produces reactive power (b) absorbs reactive power (c) produces real power (d) voltage increases	1	04	L2
3	Compensating devices used to (a) only absorb reactive power (b) only supply reactive power (c) supply or absorb reactive power (d) none of these	1	04	L2
4	The bus voltage V is: (i) dependent on the internal torque angle, δ , (ii) almost independent of active power, P, (iii) dependent on machine excitation and hence on reactive power (iv) Almost independent of internal torque angle, δ (a) both (i) and (iv) (b) both (ii) and (iii) (c) both (i) and (ii) (d) both (iii) and (iv)	1	04	L2
5	The relation between voltage and reactive power a node is (a) $\frac{\partial Q}{\partial V} = \frac{2V}{X}$ (b) $\frac{\partial Q}{\partial V} = \frac{\sqrt{V}}{X}$ (c) $\frac{\partial Q}{\partial V} = \frac{V_1 - 2V}{X}$ (d) $\frac{\partial Q}{\partial V} = \frac{V_1 - 2V}{R}$	1	04	L2
6	Methods of injecting reactive power are (a) static shunt capacitors and reactors (b) static series capacitors (c) synchronous compensators (d) all of these.	1	04	L2
7	Use of thyristor-controlled static compensators is (a) voltage control. (b) power control (c) current control. (d) none of these.	1	04	L2
8	The different types of tap-changing transformers are (a) off-load. (b) on-load. (c) both (a) and (b). (d) either (a) or (b).	1	05	L1
9	The increase or decrease of voltage at an intermediate point in a line by injecting a voltage in series with the line through a (a) distribution transformer (b) booster transformer (c) tap changing transformer (d) none of these.	1	05	L2
10	The voltage stability analysis is carried out by which power flow-based method? (a) P-V curves (b) Q-V curves (c) both (a) and (b) (d) none of these	1	05	L2

Course Coordinator

Coordinator - DAAC

Program Coordinator