



MES COLLEGE ERUMELY

BRIDGE COURSE



2021-2022

MES COLLEGE ERUMELY
Directorate of Human Resource Development Council

Syllabus for the Bridge Course
During the Academic Year 2021-22

Department of Electronics

Total : 15 hrs

Familiarization of basic electronic components and testing equipments

Objectives

To introduce resistors and capacitors as examples of passive components.

To introduce diodes and transistors as simple semiconductor components.

To introduce an Op-amp and 555 as examples of integrated circuits.

Familiarization of passive and active components 5 hrs

Resistors – Types , color coding

Capacitors – Types , measurement

Transformer – Types , connections

Diode – Types, terminal identification, testing

Transistors – (BJT, FET, UJT, Thyristor)Types , lead identification ,testing

Familiarization of lab equipment 10 hrs

Breadboard


Multimeter

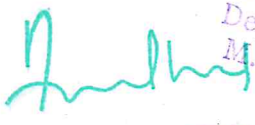
Power supply

CRO

Function generator




TISHA C.K.
Head of the Department
Department of Electronics
M. E. S. College Erumely


Prof. (Dr.) ANIL KUMAR S.
PRINCIPAL
MES COLLEGE ERUMELY

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Syllabus for the Bridge Course During the Academic Year 2021-22

Department of Electronics

Familiarization of basic electronic components and testing

Total: 15hrs

Familiarization of passive and active components 5 hrs

Resistors – Types , color coding

Capacitors – Types , measurement

Transformer – Types , connections

Diode – Types, terminal identification, testing

Transistors – (BJT, FET, UJT, Thyristor)Types , lead identification

ICs – Types and configurations

Familiarization of lab equipment 10 hrs

Breadboard

Multimeter

Power supply

CRO

Function generator

Objectives

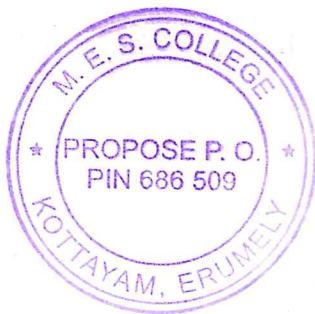
To introduce resistors and capacitors as examples of passive components.

To introduce diodes and transistors as simple semiconductor components.

To introduce an Op-amp and 555 as examples of integrated circuits.

To introduce multimeter CRO and function generators as testing equipment.

https://docs.google.com/document/d/1ykwmi6kZvgYTNPxaZHLB_8LcwiWSWTNQ/edit?usp=sharing&oid=100291197987125325235&rtopof=true&sd=true
https://docs.google.com/document/d/1G9qysH-x1HADiyOK2PiLqz_2Vaa0BPsR/edit?usp=sharing&oid=100291197987125325235&rtopof=true&sd=true



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Department of Electronics

Bridge Course

Entry Level test

1. What is the unit of current?
2. What is the polarity of an electron?
3. The process of adding impurities to a semiconductor is called-----
4. In a series connection of resistors current is the same, true/false
5. The rate of change of charge is called-----

Julia

JULIA C. K.
Head of the Department
Department of Electronics
M. E. S. College Erumely

Anil Kumar S.

Prof. (Dr.) ANIL KUMAR S.
PRINCIPAL
MES COLLEGE ERUMELY



Department of Electronics

Bridge Course

Entry Level test

Souraj Subbaraj

Roll no: 9

S₁ Bsc Electronics

$\frac{4}{5}$

1. What is the unit of current?

- volt
- Ampere ✓
- ohm

2. What is the polarity of an electron?

- Neutral
- Positive
- Negative ✓

3. The process of adding impurities to a semiconductor is called _____.

- Dopping ✓
- Diffusion
- Bonding

4. In a series connection of resistors current is the same,

- True
- False ✓

5. The rate of change of charge is called-----

- Current ✓
- Resistance
- Voltage

Amel

JITHA C. K.
Head of the Department
Department of Electronics
M. E. S. College Erumely

DEPARTMENT OF ELECTRONICS

BRIDGE COURSE

FAMILIARIZATION OF BASIC ELECTRONIC COMPONENTS AND TESTING EQUIPMENTS

BSc ELECTRONICS 2021 ADMISSION

ROLL NO	NAME
1	ABHIJITH K S
2	ABIN P REJI
3	ANANDHU SATHEESH
4	ANOOP S
5	ATHULKUMAR N S
6	KARUN KUMAR
7	MAHESH KUMAR K M
8	MUHAMMED NOUFIN
9	SOORAJ SUBHASH

Subs

JICHA C. K.
Head of the Department
Department of Electronics
M. E. S. College Erumely

Anil Kumar S.

Prof. (Dr.) ANIL KUMAR S.
PRINCIPAL
MES COLLEGE ERUMELY

