# KONGU ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

**ERODE - 638 107** 

# DEPARTMENT OF PHYSICS VALUE ADDED COURSE – SYLLABUS

# 21VPEE - ELECTRONICS FOR EVERYONE

## Course Objective:

- > To provide electronic fundamentals
- > To inculcate the basic ideas of circuit control devices
- > To study various trendy electronic gadgets and its application

UNIT I	Electricity and Electronics	8 Hours
An overviev Inductor - A AC over DC	v – analog and digital electronics - Electronic components: Resistor, Ca C and DC - single phase – Three phase – Applications of AC and DC – Ac	pacitor and Ivantages of
UNIT II	Circuit Control and Protective Devices	8 Hours
Switch — Sv Types of PC PCBs	vitching Action – Types of Switches - Fuse - Circuit Breaker – Printed Cir Bs – Board Construction – Steps involved in the development of a PCB – Ac	cuit Board - dvantages of
		0.11
UNIT III	Integrated Devices and Circuits	8 Hours
UNIT III Introduction Classification Terminolog	- Integrated Circuits - Advantages and Limitations of ICs - Scale of Ion of ICs Function - Linear Integrated Circuits - Digital Integrated C	ntegration -
Introduction Classification Terminolog	- Integrated Circuits - Advantages and Limitations of ICs - Scale of Ion of ICs Function - Linear Integrated Circuits - Digital Integrated C	ntegration -
Introduction Classification Terminolog UNIT IV	- Integrated Circuits - Advantages and Limitations of ICs - Scale of Ion of ICs Function - Linear Integrated Circuits - Digital Integrated Cy	ntegration - ircuits – IC
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#### Reference Books

- R.S.Sedha A Text book of Applied Electronics Revised Edition 2006 S.Chand & Company Ltd., NewDelhi
- 2. The Hindu Speaks on Scientific Facts Edition 2006.
- 3. Basic Electronics B. L. Theraja Recent Edition 2014 (Reprint 2015) S. Chand Publications, New Delhi.
- Principles of Electronics V. K. Mehta & Rohit Mehta Revised Edition 2013 S. Chand Publications, New Delhi.

### COURSE OUTCOME:

Upon successful completion of the course, Students will be able to

- Gain the knowledge of basics of electronics
- \* Recognize protective and control circuits
- Gain basic knowledge in the area of integrated circuits.



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