

M.V.R. DEGREE COLLEGE
(Affiliated to Andhra University)
An Institution of Priyadarshini Educational Academy)
NAAC ACCREDITED COLLEGE

Dr.V.Rama Rao, M.A.,Ph.D.,
Secretary & Correspondent

Dr.A.Balakrishna,M.Sc.,Ph.D.,
Principal

DEPARTMENT OF PHYSICS
AS PART OF SKILL DEVELOPMENT COURSES
UNDER CBCS FRAMEWORK WITH EFFECT FROM 2020-2021
A.P. STATE COUNCIL OF HIGHER EDUCATION
B A, B Com & B Sc Programmes
Revised CBCS w.e.f. 2020-21
Syllabus of ELECTRICAL APPLIANCES
Total 30 hrs (02h/wk), 02 Credits & Max Marks: 50M



COURSE OUTCOME:

S.NO	TITLE	NO.OF HOURS	ARTER COMPLETION OF THE COURSE STUDENTS WILL LEARN
1	UNIT -1 BASIC ELECTRICAL INSTRUMENTS	6hrs	<ul style="list-style-type: none">➤ Students will know the basics and working of instruments like Voltage, Current, Resistance, Capacitance, Inductance, Electrical conductors and Insulators.➤ They will also study Ohm's law, Series and parallel combinations of resistor., Galvanometer, Ammeter,➤ They get the knowledge on Voltmeter, Multi meter, Transformers, Electrical energy, Power.
2	UNIT-2 ELECTRICAL APPLICATIONS IN DAILY LIFE	10HRS	<ul style="list-style-type: none">➤ Students could able to recall and recognize the different terms facts in Direct current and alternating current,RMS and peak values, Power factor, Single phase and three phase connections ,➤ students can know the idea about Basics of House wiring , Star and delta connection , Electric shock,➤ Students can get the knowledge on First aid for electric shock, Overloading , Earthing and its necessity, Short circuiting , Fuses , MCB , ELCB, Insulation, Inverter, UPS

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			UPS
3	UNIT -3 ELECTRICAL APPLICATIONS IN VARIOUS INSTRUMENTS	10hrs	<ul style="list-style-type: none"> ➤ Students develop scientific interest by questing ,reading ,discussing ,de3b ating and practicing the Pprinciples of working, parts and servicing of Electric fan, Electric Iron box, Water heater; ➤ Induction heater, Microwave oven; Students can know the principle and working of Refrigerator, Concept of illumination, Electric bulbs, ➤ Students will get wonderful knowledge about CFL, LED lights, Energy efficiency in electrical appliances, IS codes & IE codes. Students can identify the codes.

AKHTEG
Rm

PRINCIPAL
M.V.R. DEGREE COLLEGE
Shramika Nagar, Gajuwaka,
VISAKHAPATNAM - 530 026

