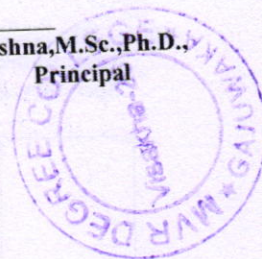


M.V.R. DEGREE COLLEGE
(Affiliated to Andhra University)
An Institution of Priyadarshini Educational Academy)
NAAC ACCREDITED COLLEGE

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
SKILL DEVELOPMENT COURSES
Science Stream
SYALLBUS of SOLAR ENERGY.
Total 30 hrs (02h/wk), 02 Credits & Max Marks: 50M

COURSE OUTCOMES:

UNIT NO :	TITLE	NO. OF HOURS	After completion of the course students will able to learn
1.	Solar Radiation:	6hrs	<ul style="list-style-type: none"> ➤ Students will gain the knowledge about Sun as a source of energy, Solar radiation, Solar radiation at the Earth's surface, . ➤ They will also know the Measurementnt of Solar radiation, Pyranometer, Sunshine recorder, Prediction of available solar radiation, Solar energy. ➤ They know Importance of Storage of solar energy and Solar pond
2	Solar Thermal Systems:	10 hrs	<ul style="list-style-type: none"> ➤ Students get the idea on Principle of conversion of solar radiation into heat, they may also learn that Collectors used for solar thermal Conversion. ➤ They also know the working and principals of Flat plate collectors and Concentrating

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			collectors, Solar Thermal Power Plant, ➤ Students develop the working skill on doing the project on Solar cookers, Solar hot water systems, Solar dryers, Solar Distillation, Solar greenhouses.
3	Solar Photovoltaic Systems:	10 hrs	 ➤ Students will discuss about the conversion of Solar energy into Electricity - Photovoltaic Effect, Solar photovoltaic cell and its working principle, ➤ They gain knowledge of Different types of Solar cells, Series and parallel connections, ➤ Students get an idea on Photovoltaic applications: Battery chargers, domestic lighting, street lighting and water pumping

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

