

Palamuru University
B.A Semester IV
(Skill Enhancement Course, SEC-II)
Basics of Journalism
(Academic year 2017 - 18 onwards)

Max Marks: 50 (90 Min)

SYLLABUS

Unit-I: (12 periods) Concept of news and news process. The concept of news values. Structure of a news report –Lead, body, headline, start-up line, by-line, dateline– Types of leads. Essentials of a news report: quotes, attribution, verification, balance, fairness and brevity. Reporter - role, duties and qualities. Sources of news: documents/ institutional/ individual- Cultivating sources. Interviewing techniques. Reporting public affairs, meetings, conferences, seminars, cultural, civic and social events. Crime news: nature / types of crime, sources of information, challenges.

Unit-2: (12 periods) Freelancing/content development: Freelance writing – Choosing a topic, Identifying sources, gathering information, importance of rewriting, Slanting, Studying the requirements of magazines/newspapers, Marketing features, Content development for newspapers, E-Journals, On-line magazines. Blogging, Avenues for freelance marketing, and Basics of page make-up.

Books

1. Vir Bala Agarwal: *Essentials of Practical Journalism*
2. K.M.Srivasthava: *Reporting and Editing*
3. Maloney & Rubenstein: *Writing for Media*
4. Burack: *The Writers Handbook*
5. Cambell: *Professional Writing*
6. Dewbo and Pondrow: *The Contemporary Writing*
7. John Bender, et al.: *Reporting for the Media*, OUP.
8. N.N. Sarkar: *Art and Print Production*, OUP.
9. T.J.S. George: *Editing*
10. Cecilia Friend and Donald Challenger: *Contemporary Editing*.
11. Daryl R. Moen: *Newspaper Layout & Design*

PALAMURU UNIVERSITY

B.Sc. Semester IV

(common paper for faculty of science under SEC-II)

Basics of Renewable Energy

(Academic year 2017 - 18 onwards)

Time: 90 minutes

Max. Marks: 50

SYLLABUS

UNIT – I (12 periods)

Fundamentals of energy: Common forms of energy, Classification of energy resources, Advantages and disadvantages of conventional energy sources, Importance of non-conventional energy sources, Environmental aspects of energy, Energy scenario in India, Energy conservation ACT-001.

Solar energy : The Sun as a source of energy, Spectral energy distribution of Solar radiation, Depletion of Solar radiation, Solar Thermal Systems: Solar collectors – Liquid flat plate collector and its efficiency, Solar passive systems (Heating and Cooling), Solar cookers, Solar greenhouse, Solar distillation (Desalination of water)

UNIT – II (12 periods)

Solar Photovoltaic systems: Solar cell fundamentals, n-type and p-type Semiconductors, Solar cell characteristics, Equivalent circuit, Energy losses and efficiency, Solar PV cell, module, panel and array, Solar PV applications

Other energy forms: Wind Energy - Wind power and major applications of wind power. Biomass Energy - Biomass resources, Advantages and disadvantages of Biomass energy, Urban waste to energy conversion, Biogas production from waste biomass, Energy farming. Geothermal Energy - Geothermal resources, Geo-thermal energy applications. Tidal energy - Origin of tidal energy, Applications of Tidal energy.

Books for reference:

1. Energy resources by G.D. Rai, Khanna Publishers, New Delhi, INDIA.
2. Non-Conventional Energy resources by B.H. Khan, McGraw Hill Education, New Delhi, INDIA.
3. Introduction to Solid State Physics, VIII Edition, Charles Kittel, John Wiley & Sons, INC.