

ANDHRA UNIVERSITY

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All Official letters, packages etc,
should be addressed to the Registrar
by designation and not by name.

No. LI(3/UG Courses/Sci. & Civili./2009.

Visakhapatnam
Dt: 01-07-2009

From: THE REGISTRAR

To
The Principals,
A.U. Affiliated Colleges (UG).

Sir,

Sub: UG Courses, Andhra University – Introduction of Foundation Course - Deleted of Science & Civilization paper from the II year – Regarding.

Ref: Minutes of the meeting of the Standing Committee of the Academic Senate held on 15-06-2009 (Vide Item No. 8).

With reference to the above, I am to inform you, that the Standing Committee of the Academic Senate has approved the Foundation Course as introduced to the UG Courses in the place of Indian Heritage & Culture in I year and Foundation course in III year w.e.f. the admitted batch of 2008-09.

The paper Science & Civilization in II year of UG Courses has been deleted w.e.f. the admitted batch of 2008-09 and the same syllabus of the Science & Civilization paper has to be followed as Foundation Course in III year under part-I only for the admitted batch of 2008-09.

I request you, to kindly arrange to circulate the same among the teaching staff and students concerned.

Yours faithfully,


(M. SUDHAKARA RAO)

Assistant Registrar (Academic)

SCIENCE & CIVILIZATION

1. The Remote beginnings of Science:

The ancient Egyptian Civilization and the discovery of the Astronomical year. The great Pyramid of Gzeh (2900 BC) as Engineering marvel. The Babylonian numerical system. Development of Mathematics during the vedic period. Contributions of Pythagoras and Euclid to Mathematics and astronomy discovery of the 'Procession of the equinoxes' – Ptolemy's concept of the Universe.

2. Birth of Modern Science:

Contributions of Copernicus, Galileo, Newton and Kepler to Astronomy and Physics. The concept of Universal Gravity.

3. Significant Discoveries of the 20th Century:

Significant discoveries of the 20th century in the fields of Physical, Biological and Medical Sciences and their impact on society. Advancement in space explorations.

4. Environmental Protection:

Scientific concepts of (a) Physical and Chemical Environment (b) Ecological – Environment and (c) Social and Cultural Environment. Physical and Chemical Environment: Polluting agents. Air, water and soil pollutions. The Bhopal tragedy.

Ecological Environment; Communities and food pyramids – inter-dependency land use patterns, Bio-diversity need for ecological balance; The Takridam controversies.

Social and Cultural Environment: Population dynamics Living standards – Resource consumption. Social justice.

While setting the question paper, one question from each of the first three topics and two from the fourth topic must be made compulsory.

Ref: History of growth of Physical Sciences by Sir James Jeans.