COURSE CODE	COURSE TITLE/DESCRIPTION	NO OF CONTACT HRS
GES 104	SCIENCE, INDUSTRY AND MANKIND	HL 30 U2

This course aims at ensuring that students in the Faculties of Arts, Education, Law, and the Social Sciences offering the course are able to:

-Explain why science is a tool for industrial growth and human welfare.

-Put on appropriate behaviour and perform brilliantly in a dynamic world.

-Apply simple principles of science to solve some day-to- day problems.

WEEK 1 - 3:

a. Man: his origin and nature

b. Man and his cosmic environment.

c. Scientific methods.

d. Science and technology in the society and service of man.

WEEK 4 and 5:

a. Renewable and non-renewable resources- man and his energy resources.

WEEK 6:

a. Environmental effects of chemicals, plastics, textiles, wastes and other Materials/Chemicals and radiochemical hazards.

WEEK 7 :

a. The Study of Physics and Chemistry with emphasis on the areas of application (e.g. indstrial applications of Chemistry in medicine and pharmaceuticals, biology, agriculture and engineering; uses and applications of electricity and electronics, waves and radiation, heat, energy, sound and light waves. Space exploration and exploitation).

WEEK 8:

a. An overview of Computer Science with emphasis on the areas of applications (how the major areas of concern in computer science help in solving contemporary problems: software engineering and information technology).

WEEK 9:

a. The study of Statistics with emphasis on the areas of applications (discussion of statistical uncertainty and scientific methods and application to real-life data especially as a guide to living and decision-making).

WEEK 10:

a. An overview of the study of Geography and Geology with emphasis on the areas of applications (should include discussion of

WEEK 11-13 :

a. An overview of Botany, Microbiology and Zoology with emphasis on the areas of applications (these should include: Impact of Zoology on technology inventions.

causes and effects of weathering, erosion and volcanoes; Climate and concept of times and seasons; Nigerian vegetation and fauna; Transportation; The earth: development, utilization and management).

Development, pollution and environmental impact on plants and animals; bio accumulation along the food-chain.; Biology and industry use of micro-organisms in industry; fermentation, biodegradation; drug production, animal breeding, hybridization and mutation for the development of breeds resistant to adverse weather, diseases and pests. Plant and animal conservation. Wood technology).

WEEK 14:

a. Revision