TEC 2101 SOCIOLOGY FOR TECHNOLOGISTS

Hours per semester				Weighted total mark	Weighted exam mark	Weighted continuous assessment mark	Credit unit
LH	PH	TH	CH				CU
45		45	45	100	60	40	3

Brief Description of Course:

This course deals with how technologies have altered the fabric of society. It crosses disciplines and academic traditions with an open mind, curiosity, and willingness to engage in fun. The course arouses analytical thinking about everyday technologies affecting our life. It therefore examines how engineers, scientists, humanists, social scientists, and artists work together in their respective professions.

Objectives of the Course:

The course is intended to:

- Explore the social and cultural impact of engineering innovations.
- Discuss how technology shapes culture and how culture shapes technology.
- Teach how human behavior affects design decisions within engineering.
- Demonstrate that values are embedded within technology.
- Show international focus on specific technologies

Expected Outcomes:

Upon completion of this course, the student is expected:

- To discuss the impact of social and cultural innovations.
- To explain relationship between technology with culture.
- To relate human behaviour with design decisions.
- To explain relevance of sociology in the field of technology. ***Course Content:***

Social structures **(2 hours)**

- Individual - Society - Civilisation,
- Historical perspective - Relation between Individual and Society,
- Theories - Personal needs and Societal needs as related to development of Technology.

Evolution of Society **(15 hours)**

- Ancient Society,
- Development of Science and Technology based on Societal needs,
- Examples from Ancient Civilisations.

Industrial Development **(12 hours)**

- Technological changes and their influence on social, economic and political systems,
- Industrial Revolution,
- Fall out - Recession and Impact on Society.

Knowledge and Information revolution **(8 hours)**

- Basic influence on rural and urban development strategies,

- Feature of society to individual relationship.

***Engineering from ancient Civilizations to modern times* (8 hours)**

- Impact of development in the area of engineering on individual and society,
- Importance of considering societal needs,
- Interaction with society at different stages of planning and implementation,
- Other issues - Gender, HIV/AIDS, Status, Corruption, Child labour and Malaria,
- Professional ethics.

Delivery Methods:

The course will be taught by using lectures, tutorials, practical sessions involving hands-on project work and laboratories.

Assessment Methods:

Course work (assignments and tests) and final examination and their relative contributions to final grade are shown as follows:

Requirement Percentage contribution

Course work 40%

Final examination 60%

Total 100%

References:

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Sociology: A brief but critical introduction, Cambridge,1996.

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Sociological research methods, London Macmillan 1984.

Survey methods in social investigation,London Macmillan 1988.

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