

Course Title	Course Code	Credit Hours
Sociology for Engineers	HU-431	2-0

Textbooks / Journal Articles:

- J. B. Godhade, and S.T. Hunderkari, “Social Responsibility of Engineers”, International Journal of Academic Research and Development.
- S. P. Nichols, and W. F. Weldon, “Professional Responsibility: The Role of Engineering in Society”, Center for Electro-Mechanics, The University of Texas at Austin, USA.
- E. W. Aslaksen, “The Relationship between Engineers and Society: Is it currently fulfilling its potential?”, Journal and Proceedings of the Royal Society of New South Wales

Reference Books/Materials:

- Sarah Bell, “Engineers, Society and Sustainability”, Morgan and Claypool Publishers
- Andrew Jamison, Steen Hyldgaard Christensen, and Lars Botin, “A Hybrid Imagination: Science and Technology in Cultural Perspective”, Morgan and Claypool Publishers

Course Objectives:

The objective of this course is to provide engineering students with an opportunity to view the discipline of sociology from the engineering perspective and will highlight its application to the engineering profession.

Course Outline:

- Fundamental Concepts and Importance of Sociology for Engineers
- Cultural Impacts of Engineering Projects on Society
- Theoretical Perspective of Sociology:
 - Diffusion and Innovation
 - Adoption and Adaptation
 - Social Development
 - Community Development

- Understanding of Societal and Ethical Norms and Values for Engineers
- Engineers, Society and Sustainability
- Industrial and Organizational Psychology
- Climate Change and Ecological Friendliness from Engineering Perspective
- Social Approaches and Methodologies for Development Administration
- Stakeholders Analysis
- Social Impact Assessment (SIA)
- Engineering Intervention for Social Stratification
- Case Studies of Different Development Projects in Social Context