

## Social Engineering for Sustainable Development

Code	Credit Hours
URP 808	3-0

### Course Description

The objective of the course is to provide fundamentals of social theories in planning and sustainable development, emphasizing the significance of social trust, social capital, and civil society. Additionally, the course explores Artificial Intelligence tools for community engagement in planning processes and community welfare, fostering understanding of social engineering's role in urban sustainable development.

### Textbooks:

1. Foundation of Social Theories. (1988). James S. Coleman. Harvard University Press
2. Evaluating Sustainable Development in the Built Environment. Peter Brandon and PATRIZIA LOMBARDI (University of Turin, Italy). BLACKWELL PUBLISHING ISBN: 9780632064861, ISBN10: 0632064862.
3. Sustainable Development Strategies (A Resource Book). Compiled By: Barry Dalal Clayton and Stephen Bass of International Institute for Environment and Development. OECD, UNDP. EARTHSCAN Publishing Ltd. London, Sterling, VA

### Reference Books:

1. Governing the Commons: The Evolution of Institutions for Collective Actions. (1990). Ostrom E. New York: Cambridge University Press.
2. Empowerment: The Politics of Alternative Development. (1992). John Friedmann. Blackwell Publishers, Oxford.
3. Community Management: Asian Experiences and Perspective. (1986). David C. Korten. Kumairian Press.
4. Bread, Bricks and Belief: Communities in Charge of Their Future. (1985). Lean, M. West Hartford: Kumarian Press.
5. Trust: The Social Virtues and Creating of Prosperity. F. Frances. A Free Press Paperbacks Book, Published by Simsons and Schuster
6. Making Democracy Work: Civic Traditions in Modern Italy. (1993). Putnam, R.D. Princeton University Press, NJ.
7. Unequal Partnerships: The Political Economy of Urban Redevelopment in Postwar America. (1989). Squires, D. G. Rutgers University Press
8. Technical Cooperation – Success and Failure: An Overview. (2000) Peter Morgan. UNDP
9. Working with Government: The Story of OPP's Collaboration with State Agencies for Replication of its Low-Cost Sanitation Programs. (1997) Hasan Arif. City Press, Karachi, Pakistan.
10. Working with Communities. (2001). Hasan Arif. City Press, Karachi, Pakistan
11. From the Lane to the City: The Impact of Orangi Pilot Project's Low-Cost Sanitation Model. (2001). Evaluation Report Conducted by WaterAID UK. WaterAID, UK.
12. Handouts by the course tutor, research papers, Internet Resources

### Prerequisites

Nil

### Assessment System for Theory

Quizzes	10-15%
Assignments	5-10%
Mid Terms	25%
ESE	40-50%
Term Project	10%

### Teaching Plan

Week no	Topic	Learning outcome
1	Course Objectives, Outline and Grading Policy Social Engineering: An Emerging Discipline	To develop student understanding of social engineering as an emerging field within the context of Sustainable Development Goals (SDGs).
2-3	Social Capital Fundamentals of Social Capital Social Capital and Development nexus Theories of Social Capital Measurement of Social Capital through Data Mining Techniques Social capital in the creation of AI perception	To learn about the concept, theories, and applications of social capital in various contexts, emphasizing its role in community development and governance.
4	Trust Fundamentals of Trust Social Capital, Trust and Development nexus Theories of Trust and its application in urban planning Conceptualizing and Measuring Trust	To learn about concepts and theories related to social capital, its relationship with trust, and their application in urban governance.
5	Collective Actions Fundamentals of Collective Actions Social Movements and Collection Action	To learn about the concepts, theories, and applications of collective action in urban planning and to understand the causes underlying collective action.

	Theories of Collective Action Social Capital, trust, collective action and Development nexus	
6	Artificial Intelligence for Social Good	To understand the role of Artificial Intelligence (AI) in promoting social good and its applications across various domains.
6-7	Strategies for Sustainable Development	To understand sustainable development with a focus on urban planning, particularly Sustainable Development Goal 11 (SDG-11).
8	Measuring and Accounting for Sustainable Development Introduction to Big Data for Sustainable Development Greenhouse Gas Protocol	Learn how to measure and account for sustainable development using big data analytics.
8	Community Participation and Sustainable Development	To learn about the principles and practices of community participation in sustainable development.
<b>MID SEMESTER EXAM</b>		
10	Social Empowerment and Gender Equality in Development	To learn how citizen participation and the role of civil society promote sustainable development.
11	Citizen Participation and Role of Civil Society	To learn how Citizen Participation and Role of Civil Society promotes sustainable development
12	Models of Participatory Development	To learn about participatory development models and their application in urban planning contexts.
13	Participatory Development Process Participatory Rural Appraisal (PRA) and Participatory Analysis for Community Action (PACA)	To learn about the participatory development process, focusing on Participatory Rural Appraisal (PRA) and Participatory Action and Community Analysis (PACA) methodologies.
14	Tools for Assessing Participatory Development Community mapping, Calendars (seasonal, monthly, weekly), Access to resources etc.	To learn about tools and methods for conducting participatory surveys and mapping exercises effectively.
15	Asian Experiences of Participatory Development	To learn from examples of participatory development practices in Asian countries.
16-17	Asian Experiences of Participatory Development Models of Participatory Development Experienced in Pakistan	To learn about models suitable for participatory development, specifically those experienced in Pakistan.
18	<b>END SEMESTER EXAM</b>	