**Proposal for a New UG Course ( Breadth. Credits 3-0-0)**

**Title - Socio-Technical Interventions for Ageing Societies**

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The course is designed to sensitize Science and Engineering students to the challenges of ageing societies. In recent years, Gerontechnology (which involves directing technologies towards the aspirations and opportunities for older persons), is beginning to have an effect on many areas-- health and healthcare, transportation, urban design, housing, architecture and work-place environment. It is therefore important for product developers and service providers to know the full spectrum of issues affecting the elderly, including policies and programs run by governments and organizations. The course intends to provide relevant inputs based on Sociology of Ageing, Social and Cultural Gerontology and Thanatology.

## Content

1. The Ageing Scenario: Global and Local Trends

2. Theories of Ageing: Biological, Psychological and Sociological Theories

3. Ageing and Public Policies: Issues and Challenges in Providing Social Support, Security, Care systems

4. Ageing and New Technologies: Gerontechnology for Age-related Decline; Revolutionizing the Ageing Experience; Providing Technological Inputs to Health, Housing, Mobility, Communication, Leisure and Work of Older People

5. Ageing and End-of-Life Care: Improving End- of- Life Experiences of Older People -- Re-configuring Hospitals, Providing Long Term Care, Palliative and Hospice Care

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**References**

Malcolm L Johnson, 2005. The Cambridge Handbook of Age and Ageing. Cambridge Univ Press

Moreira T, 2016. Science Technology and the Ageing Society. Routledge .UK

UNFPA India, 2017. Caring for Our Elders: Early Responses. India Ageing Report 2017

Chopra Chatterjee, S and Jaydeep Sengupta,2017. Death and Dying in India: Ageing and End-of-life Care of the Elderly. Routledge.UK

Chopra Chatterjee et al. 2008 Discourses on Ageing and Dying. Sage. New Delhi

**Reports (International)**

United Nations -- https://www.un.org/development/desa/ageing/
WHO – Ageing and Health-- https:/www.who.int/mediacentre/factsheets/fs404/en/
UNFPA --   http://www.unfpa.org/ageing
ILO -- http://www.ilo.org/global/about-the-ilo/multimedia/audio/WCMS_358943/lang--en/index.htm
IAHSA-- http://www.architectsajc.com/wp-content/uploads/2014/06/Architecture-for-the-Ageing-Extract.pdf

**Reports (National)**

**ICMR-**
http://www.icmr.nic.in/icmrnews/workshop/INDOSWEDEN%20PLANNING%20WORKSHOP%20REPORT.pdf
**Ministry of Social Justice and Empowerment-**
http://socialjustice.nic.in/writereaddata/UploadFile/dnpsc.pdf
http://socialjustice.nic.in/writereaddata/UploadFile/National%20Policy%20for%20Older%20Persons%20Year%201999.pdf
**Ministry of Health and Family Welfare**
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3843295/

**Lecture Distribution**

| Themes/Sub-themes | No. of Lectures |
|---|---|
| **1. The Ageing Scenario: Global and Local Trends** | (TOTAL - 8) |
| 1.1. The Demographic Transition | 1 |
| 1.2. Consequences of Ageing | 3 |
| 1.2.1. The Epidemiological Transition<br>1.2.2. Challenges for Health Systems<br>1.2.3. Socio- Economic Consequences | |
| 1.3. Indian Government's Response to the Challenge | 4 |
| **2. Theories of Ageing** | (TOTAL - 7) |
| 2.1. Biological | 1 |
| 2.2. Psychological | 2 |
| Lifespan Development Theory; Socio-Emotional Selectivity Theory; Cognition and Ageing Theories; Personality and Ageing; Gerotranscendence Theory | |
| 2.3. Sociological Theories | 4 |
| Historical Foundations of Social Gerontology; Lifecourse Perspective; Age Stratification Perspective; Social Exchange Theory; Social Constructionist Perspective ; Feminist Theories of Ageing; Political Economy of Ageing Perspective; Critical Perspectives of Ageing; Postmodern Perspective. | |

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| **3. Ageing and Public Policies: Issues and Challenges in Providing Social Support, Security, Care systems** | (TOTAL - 7) |
| 3.1. Critical Examination of Programs and Policies of WHO , UNDP, UNFPA , ILO related to Income, Security, Health and Welfare | 4 |
| 3.2. Role of Civil Society in Preventing Elder Abuse and Neglect; Ageism and Society | 1 |
| 3.3. Critical Review of Indian Policies and Programs | 2 |
| **4. Ageing and New Technologies** | (TOTAL - 9) |
| 4.1.Meaning of Gerontechnology | 1 |
| 4.2. Providing Technological Inputs to Health, Housing, Mobility, Communication, Leisure<br><br>• Assistive Technologies<br>• Technologies for Functional Enhancement,<br>• Technologies for Enhancing Quality of Life<br>• Design Strategies for Adaptable Housing and Environment<br>• Recreational space<br>• Transportation<br>• Improving Accessibility for Disabled and Cognitively Impaired Elderly<br>• Development of Rehabilitation Services<br>• Technologies for Information Dissemination and Education | 7 |
| 4.3. Adaptations to New Technologies by Older People | 1 |
| **5. Ageing and End-of-Life Care** | (TOTAL - 7) |
| 5.1. Ways of Improving End-of-Life Experiences | 1 |
| 5.2. Global Innovations in End- of- life Decision-making | 1 |
| 5.3. Changes in Health Care Delivery Structure<br><br>• Re-configuring Hospitals<br>• Providing Long term care | 3 |

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|---|---|
| • Palliative and Hospice Care | |
| 5.4. Helping the Caregivers | 1 |
| 5.5.  Challenges in  Improving End-of- life Care in India | 1 |
| **Total Number of Lectures** | **38** |

**Pedagogy** -- Each thematic issue is designed to stimulate debate, highlight emerging concerns, and propose alternative policy options.  Students would be encouraged to present innovative design features in class.