

GER527 Technology in an Ageing Society

Level: 5

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JULY

Synopsis:

The use of technology in expanding the potential of seniors and facilitating them to live independent lives is pervasive across the world. Gerontechnology aims to fulfill the needs of an ageing society. This course will focus on scientific research and advances in technology that can enhance the physical and mental health, social participation and safety of the seniors. Students will engage in a group project that innovatively addresses a challenge that is faced by seniors by either designing a product or a service. As longevity increases, technology can be tapped to prevent age-related diseases and age-related losses through exercise, therapeutic intervention and affordable treatment. Students are guided to seek solutions to improve the quality of life of seniors by combining knowledge of the ageing process woven with technological expertise.

Topics:

- Exploring Gerontechnology – its role and functions
- The five aspects of Gerontechnology: Enhancement, Prevention, Compensation, Care and Research
- Physical and mental barriers and enablers to seniors' participation
- Social, cognitive, and affective barriers and enablers
- Application of technology in the field of health and housing
- Advances of assistive technology in the field of mobility and communication
- Designing facilitators in the field of education and learning
- Applications for engaging Asian seniors for mental 'gym'
- Ethical Issues and future research areas

Textbooks:

: Gerontechnology: Research and Practice in Technology and Aging
ISBN-13: 9780826128881-AA

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ISBN-13: 9780826128881

Learning Outcome:

- Examine the factors that contribute to the success of techno-gerontological solutions
- Develop technological applications in health, housing and education
- Plan a project that deals with the process of applying technology to age-related issues and/or problems
- Discuss the issues and challenges involved in persuading seniors to embrace technology
- Create and develop interventions and/or programmes to support healthy engagement of mental functions through technologies
- Design a product or service that can meet the needs of seniors in the Asian context

Assessment Strategies:

Continuous Assessment Component	Weightage (%)
TUTOR-MARKED ASSIGNMENT	30
GROUP BASED ASSIGNMENT	20
Sub-Total	50

Examinable Component	Weightage (%)
ECA	50
Sub-Total	50

Weightage Total **100**