

GER527 Technology in an Ageing Society

Level: 5

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JAN

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:

- Application of Technology Acceptance Model framework
- Artificial Intelligence in improving personalisation of ageing needs
- Gamification to create positive engagement with older adults
- 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 Sunkyo Kwon Springer Publishing Company
ISBN-13: 9780826128881

Learning Outcome:

- Examine the factors that contribute to the success of techno-gerontological solutions
- Design and improve geron-technology applications that address health, rehabilitation, disability and caregiving concerns
- 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 - Regular Semester (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	TUTOR-MARKED ASSIGNMENT 1	30
	GROUP BASED ASSIGNMENT 1	20
Overall Examinable Components	ECA	50
Total		100

*The information listed is subject to review and change.