

GER201 Applied Innovations and Technologies for the Ageing Society

Level: 2

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JULY

Synopsis:

GER201 students are introduced to the opportunities for innovation and technologies in the Ageing Society. In this course, we will introduce the state of technologies in the care of older persons in the community. The field of technology has rapidly evolved to provide person centered approach in improving the quality of life and independence for older persons and their family members. Using innovative thinking tools, students can be better equipped to perform their viable role in the ageing community and empowered by conducive technologies in Artificial Intelligence (AI), IoT, and more new possibilities to reduce the barriers and improve acceptance to technologies. AI excels in pattern recognition and has successfully broken new grounds in health screening, diagnosis of condition and pharmaceutical support. Ageing is multi-factorial and multi-dimensional over a period of time. It can benefit from fields of informatics in home environment, integrated healthcare systems, consumer level health informatics, nutrition and medication. This course will provide an overview of the expanding field of health informatics to support interdisciplinary needs of researchers, clinicians, carers and policy makers for the ageing community.

Topics:

- Age-related changes and needs supported by technology
- Innovative thinking process and human factor design
- Transforming care in the age of Artificial Intelligence (AI)
- Application of AI for monitoring and real-time needs in person-centered care
- Quality of Life advance with healthcare decision-making
- Framework for evolving enhancement in personalized healthcare
- Develop and construct Value proposition
- Functional to behavioral design in person-centered model
- Technology Acceptance Model framework
- Outcome Assessment and Evaluation for Social Wellbeing
- Models on acceptance of technology and innovations
- Ethics, Privacy Issues and Disputes resulting from technology

Textbooks:

GER201 Study Guide (UDC - SUSS)

ISBN-13: SG-2148

Ageing and Digital Technology: Designing and Evaluating Emerging Technologies for Older Adults

2019 Barbara Neves; Frank Vetere Springer

ISBN-13: 9789811336935

Learning Outcome:

- Explain the concept and trends of innovations and technologies in an ageing society.
- Relate how innovations and technologies can improve the outcome of healthcare for older persons.
- Outline the challenges and opportunities of person-centered care in an ageing society.
- Recognize the latest developments in technologies and innovations which can be applied in present active ageing setting.
- Able to cite, relate and outline the major technologies in creating interactions with the older persons.
- Explain the key and relevant privacy and ethical issues in the use of health care technologies and innovation for older persons and their carers.

Assessment Strategies - Regular Semester (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	PRE-CLASS QUIZ 1	10
	GROUP BASED ASSIGNMENT 1	30
Overall Examinable Components	ECA	60
Total		100

*The information listed is subject to review and change.