



Degree of Master of Science (By Research)
List of Potential Research Topics
Intake October 2021

Applicants for the M.Sc. (by Research) course offered by the Faculty of Health Sciences are advised to choose a research topic from the following list and to contact the respective Department offering the research topic at the earliest opportunity.

Applied Biomedical Science

- Genetics of Osteoporosis and Musculoskeletal Disorders - Dr Melissa Formosa
- Genetics and Intermediate Phenotypes related to Myocardial Infarction -
Dr Stephanie Bezzina Wettinger
- High throughput Sequencing - Genetics of Heritable Diseases - Dr Rosienne Farrugia
- Identification of Single Chain Variable Fragment (scFv) Antibodies Specific to Immune Checkpoints by Phage Display - Dr David Saliba
- Molecular Control of Red Cell Biology - Prof. Joseph Borg
- Next Generation Sequencing - Dr Stephanie Bezzina Wettinger/Prof. Joseph Borg
- Transcription Factors in Erythropoiesis - Prof. Joseph Borg

Clinical Biomechanics

- Cadeveric Foot - Dr Alfred Gatt
- Gait Analysis - Dr Alfred Gatt
- Motion Capture - Dr Alfred Gatt
- Material Testing - Dr Alfred Gatt

Communication Therapy

- Bilingual Receptive and Expressive Lexical Skills in Maltese School-Aged Children -
Dr Daniela Gatt
- Camp Dream Speak Live*: Europe- Malta Outcome Data - Dr Joseph Agius/Dr
Ritienne Grima
*Camp Dream Speak Live is an Evidence-Based Treatment Programme for Children who
Stutter
- Lexical and Narrative Skills in Maltese Bilingual Children - Dr Daniela Gatt
- Language Abilities in Maltese Children with DLD - Dr Daniela Gatt

- Reading Comprehension Instruction - An Analysis of the Ecological Context and Application of the Text Structure Strategy - Dr Rachael Agius
- The Adaptation of the Stroke and Aphasia Quality of Life Scale (SAQOL-39) to the Maltese Context - Dr Ritienne Grima
- The Adaptation of the TORPAM to 5-7 Year Old Maltese Children - Dr Rachael Agius
- The Effects of Auditory Training on Children with Deficits in Auditory Processing, Language and Literacy - Dr Nadine Tabone
- The Performance of Children with Reported Listening Difficulties on Behavioural and Objective Tests of Auditory Processing - Dr Nadine Tabone
- Validation of the eMESA on Diverse Clinical Populations - Prof. Helen Grech

Food Sciences and Nutrition

- Applications of Natural Antimicrobials in Food Science - Prof. Vasilis Valdramidis
- Aspects of Public Health Nutrition including Inequalities, SDGs and Sustainable Diets
-
Dr Claire Copperstone
- Bioprocesses and (Novel) Preservation Technologies in Food Science and Environmental Health - Prof. Vasilis Valdramidis
- Dietary Patterns and Health Outcomes - Dr Petra Jones
- Dietary Patterns throughout the Lifecycle - Dr Petra Jones
- Food Fraud and Safety Issues Past and Present - Prof. Anna McElhatton
- Food Mycology - Prof. Vasilis Valdramidis
- Obesity and Health, including Reporting, Messages and Advice - Dr Claire Copperstone
- Predictive Modelling/Microbiology - Prof. Vasilis Valdramidis

Nursing

- Advanced Nursing Practice - Dr Corinne Scicluna
- Anthropological and Social Perspectives in Nursing - Dr Catherine Sharples
- Antimicrobial Resistance - Ms Ermira Tartari Bonnici
- Antimicrobial Stewardship - The Role of the Nurse/Competencies for Nurse Education -
Ms Ermira Tartari Bonnici
- Cancer and Cancer Care - Dr Joanna Depares
- Catheter-Associated Urinary Tract Infections - Ms Ermira Tartari Bonnici
- Catheter-Related Bloodstream Infections (Peripheral/Central Catheters; Bundle Approach) - Ms Ermira Tartari Bonnici
- Community Health Care - Dr Norma Josephine Buttigieg
- Critical Care Nursing - Dr Josef Trapani
- Dementia Care - Dr Anthony Scerri
- Diabetes Care - Dr Roberta Sammut
- Diabetic Foot - Dr Corinne Scicluna

- Drug Administration - Dr Corinne Scicluna
- Emergency Nursing - Dr Trevor Abela Fiorentino
- Emerging Viral Infectious Diseases Outbreaks/Pandemics (COVID-19) - Ms Ermira Tartari Bonnici
- Facilitating Assessment and Learning in Virtual Learning Environments - Dr Michelle Camilleri
- Hand Hygiene/Electronic Automated Hand Hygiene Monitoring - Ms Ermira Tartari Bonnici
- History of Nursing - Dr Catherine Sharples
- Informal Learning in Practice - Dr Michelle Camilleri
- Interprofessional Collaboration - Dr Anne C Cini
- Implementation of Evidence-based Medicine/Nursing in Daily Practice - Dr Anthony Scerri
- Issues related to Death and Dying and End of Life Care - Dr Joanna Depares
- Issues related to Palliative Care - Dr Joanna Depares
- Issues related to Refugee Healthcare - Utilisation and Provision - Dr Joanna Depares
- Management of Care - Dr Corinne Scicluna/Dr Catherine Sharples
- Nursing Care of Older Persons in Formal Care Settings - Dr Anthony Scerri
- Nursing Rituals and Change - Dr Catherine Sharples
- Online Teaching and Learning - Dr Josef Trapani
- Paediatric Nursing Research - Dr Anne C Cini
- Pre-Hospital Emergency Care - Dr Trevor Abela Fiorentino
- Politics in Nursing - Dr Corinne Scicluna/Dr Catherine Sharples
- Prevention of Surgical Site Infections - Ms Ermira Tartari Bonnici
- Professional Development - Dr Michelle Camilleri
- Professionalisation, Autonomy and Accountability in Nursing - Dr Catherine Sharples
- Public Health - Dr Norma Josephine Buttigieg
- Resuscitation Education - Dr Trevor Abela Fiorentino
- Self-Management of Chronic Conditions - Dr Roberta Sammut/
Dr Norma Josephine Buttigieg
- Sexual and Reproductive Health - Dr Roderick Bugeja
Sexuality and Sexual Health
Sexuality and Relationships Education
Genito-Urinary Medicine, including HIV/AIDS
Fertility and Reproductive Health, including:-
 - *Periconception Care*
 - *Assisted Reproductive Technology (ART)*
 - *NaPro technology (Natural Procreative Technology)*
 - *In-Vitro Fertilisation (IVF) (Lived Experience / Quality of Life)*
- Simulation Education - Dr Trevor Abela Fiorentino
- Skin and Wounds - Dr Corinne Scicluna
- Specialist Nursing - Dr Corinne Scicluna
- Ventilator-Associated Pneumonia - Ms Ermira Tartari Bonnici

Physiotherapy

- Digital Health in Physiotherapy - Dr Stephen Lungaro-Mifsud
- Immersive Virtual Reality Interventions for Fall Prevention in Older People - Dr Stephen Lungaro-Mifsud
- Neuromuscular Electrical Stimulation in Chronic Obstructive Pulmonary Disease - Dr Anabel Sciriha
- Pre-habilitation for Cardiac Surgery - Dr Anabel Sciriha

Podiatry

- Diabetes Foot Screening - Prof. Cynthia Formosa
- Diabetic Foot Biomechanics - Dr Alfred Gatt
- Diabetic Footwear - Dr Stephen Mizzi
- In Shoe Micro-Climate - Dr Stephen Mizzi
- Podiatric Biomechanics - Dr Alfred Gatt
- Podiatric Dermatology - Dr Stephen Mizzi
- Podogeriatrics - Prof. Cynthia Formosa
- Podopaediatrics - Prof. Cynthia Formosa
- The Diabetic Foot - Prof. Cynthia Formosa
- Thermography - Dr Alfred Gatt/Dr Stephen Mizzi

Radiography

- Assessment of Maltese Patients' Perceptions of the Educational Requirements of Therapy Radiographers - Dr Paul Bezzina
- Dose/Risk Optimisation - Dr Francis Zarb
- Image Quality - Dr Francis Zarb
- Patient Care in Radiography - Dr Paul Bezzina/Dr Jonathan L. Portelli/Dr Karen Borg Grima
- Pediatric Radiography - Dr Jonathan L. Portelli
- Radiation Safety - Dr Paul Bezzina/Dr Jonathan L. Portelli