

Degree of Master of Science (By Research) List of Potential Research Topics Intake February 2025

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 so that they can receive the necessary guidance. If an applicant would like to propose a research topic not listed below, the applicant may discuss this with the respective Head of Department.

Clinical Biomechanics

- Cadaveric Foot Prof. Alfred Gatt
- Gait Analysis Prof. Alfred Gatt
- Motion Capture Prof. Alfred Gatt
- Material Testing Prof. Alfred Gatt

Food Sciences and Nutrition

- Antimicrobial Packaging Applications in Food Science Dr Foteini Pavli
- Aspects of Lifestyle/Dietary/Purchasing Behaviours and/or Weight Management -Dr Claire Copperstone
- Dietary Patterns and Other Lifestyle Factors in Cancer Prevention Dr Petra Jones
- Dietary Interventions in the Management of Chronic Conditions (Diabetes, Cancer, Neurodegenerative Diseases) - Dr Mario Caruana Grech Perry
- Edible Films and Coatings for Sustainable Packaging Dr Foteini Pavli
- Food Fraud and Safety Issues Past and Present Prof. Anna McElhatton
- Inequalities, Food Security and Sustainable Diets Dr Claire Copperstone
- Maternal Nutrition: Preconception Care, Pregnancy and Lactation Dr Petra Jones
- Molecular Interventions in Lifestyle-Related Diseases Dr Mario Caruana Grech Perry
- Plant-Based Diets for Human and Planetary Health Dr Petra Jones
- Probiotic Solutions for Functional Foods Dr Foteini Pavli
- Tackling Biofilms in Food-Related Abiotic Surfaces Dr Foteini Pavli
- Understanding the Functional Activity of Polyphenols Dr Mario Caruana Grech Perry

Health Systems Management and Leadership

- Evidence-Based Healthcare Dr Patricia Vella Bonanno
- Financial Protection Dr Kenneth E. Grech
- Health Systems Development and Resilience Dr Kenneth E. Grech
- Leadership and Patient Safety Prof. Sandra Buttigieg
- Medicines Management Dr Patricia Vella Bonanno
- Regulation in Healthcare Dr Patricia Vella Bonanno
- Second Victims and Patient Safety Prof. Sandra Buttigieg
- Teamwork and Patient Safety Prof. Sandra Buttigieg
- The Relevance and Effectiveness of the Treatment Abroad Service Provided by the National Health System Dr Miriam Dalmas

Human Communication Sciences and Disorders

- Assessing the Efficacy of GraphoGame using Digital Game-based Learning among Young Readers - Dr Rachael Agius
- Bilingual Receptive and Expressive Lexical Skills in Maltese School-Aged Children -Prof. Daniela Gatt
- Comparing Reading Formats in a Digital Era:- On-Screen vs. Print Reading -Dr Rachael Agius
- Comparison of Current Speech-language Therapy Services in Malta with Global Trends
 Prof. Helen Grech
- Exploring the Impact of GraphoGame on Early Literacy Development in Bilingual Children - Dr Rachael Agius
- Language Abilities in Maltese Children with DLD Prof. Daniela Gatt
- Lexical and Narrative Skills in Maltese Bilingual Children Prof. Daniela Gatt
- Sentence Recall and Nonword Repetition Tasks as Clinical Markers for Identification of Maltese Children with Developmental Language Disorder - Prof. Helen Grech
- The Adaptation of the Aphasia Impact Questionnaire (AIQ, Concise) to the Maltese Context - Dr Ritienne Grima
- The Adaptation of the TORPAM Phonological Awareness Tests to 5 7 Year-Old Maltese Children - Dr Rachael Agius
- The Impact of Technology on Reading Habits Dr Rachael Agius
- Validation of the MESA on Diverse Clinical Populations Prof. Helen Grech

Midwifery

- Antenatal Education Dr Georgette Spiteri
- Choice, Control and Continuity of Midwifery Care Prof. Josephine Attard
- Compassion and Compassionate Care Dr Rita Pace Parascandalo
- Domestic Abuse during the Perinatal Period Dr Christie Hili
- Gender in Parenthood Dr Georgette Spiteri
- Intensive Care of the Neonate Dr Rita Pace Parascandalo
- Legal issues in Midwifery Dr Rita Pace Parascandalo

- Maternal Health for Vulnerable Groups Dr Christie Hili
- Neonatal Resuscitation Dr Rita Pace Parascandalo
- Newborn Care Dr Rita Pace Parascandalo
- Perinatal Outcomes and Lived Experiences of Migrant Women Dr Christie Hili
- Post-traumatic Stress Associated with Childbearing Dr Nicole Borg Cunen
- Preparation for Parenthood from Preconception to the First Postnatal Year -Dr Georgette Spiteri
- Preterm Birth Care of the Preterm Infant and the Family Dr Rita Pace Parascandalo
- Research Ethics Dr Rita Pace Parascandalo
- Social Aspects of Childbirth Prof. Josephine Attard
- Social Determinants Involved in the Transition to Parenthood Dr Georgette Spiteri
- Socio-cultural Aspects in Midwifery Dr Christie Hili
- Spiritual Care and Compassion Prof. Josephine Attard
- The Tie to the Unborn Child in Expectant Mothers and Fathers -Dr Nicole Borg Cunen
- Women's Health Dr Rita Pace Parascandalo

Nursing

- Advanced Nursing Practice Dr Corinne Scicluna
- Anthropological and Social Perspectives in Nursing Dr Catherine Sharples
- Antimicrobial Resistance Dr Ermira Tartari Bonnici
- Antimicrobial Stewardship The Role of the Nurse/Competencies for Nurse Education - Approach) - Dr Ermira Tartari Bonnici
- Application of Ethical Theory in Practice Dr Adrienne Grech
- Any, or a Combination of, Contemporary Challenges in the Nursing Workforce:-Employee Burnout, Staff Retention, High Turnover, Shortage, Distress, Wellbeing -Dr Stephen Ebejer
- Catheter-Associated Urinary Tract Infections Dr Ermira Tartari Bonnici
- Catheter-Related Bloodstream Infections (Peripheral/Central Catheters; Bundle Community Health Care - Dr Norma Josephine Delezio
- Continence Promotion Dr Anthony Scerri
- Creativity and Innovation in Nursing and Healthcare Dr Stephen Ebejer
- Creativity and Reflexivity in Nursing; The Social Aspect of Care Dr Sharon Martinelli
- Critical Care Nursing Prof. Josef Trapani
- Curriculum Development, Evaluation and Accreditation Prof. Maria Cassar
- Dementia Care Dr Anthony Scerri
- Diabetes Care Prof. 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) -Dr Ermira Tartari Bonnici
- Emotional Intelligence/Emotional Competence in Nursing Dr Roderick Bugeja
- Empowerment in Nursing Dr Corinne Scicluna

- Ethical and Legal Issues/Challenges in Nursing Dr Adrienne Grech
- Ethical Climates in Healthcare Dr Adrienne Grech
- Evidence Based Nursing Dr Roderick Bugeja
- Facilitating Assessment and Learning in Virtual Learning Environments -Dr Michelle Camilleri
- Genetic Nursing Dr Daren Chircop
- Genito-Urinary Medicine/Nursing Dr Roderick Bugeja
- Hand Hygiene/Electronic Automated Hand Hygiene Monitoring -
- Health Behaviour Modification/Health Promotion Dr Roderick Bugeja
- History of Nursing Dr Catherine Sharples
- Implementation of Evidence-based Medicine/Nursing in Daily Practice -Dr Anthony Scerri
- Informal Learning in Practice Dr Michelle Camilleri
- Leadership Dr Corinne Scicluna
- Learning from Errors in a Variety of Clinical Contexts Dr Stephen Ebejer
- Management of Care Dr Corinne Scicluna/Dr Catherine Sharples
- Moral Resilience and Courage in Nursing Dr Adrienne Grech
- Nurse Migration, Regulation and Registration Prof. Maria Cassar
- Nursing Care of Older Persons in Formal Care Settings Dr Anthony Scerri
- Nursing Ethics Dr Adrienne Grech
- Nursing Rituals and Change Dr Catherine Sharples
- Online Teaching and Learning Prof. Josef Trapani
- Organisational Safety Culture and Patient Safety Dr Stephen Ebejer
- Perioperative Care and Operating Theatre Nursing Dr Stephen Ebejer
- Politics in Nursing Dr Corinne Scicluna/Dr Catherine Sharples
- Pre-Hospital Emergency Care Dr Trevor Abela Fiorentino
- Prevention of Surgical Site Infections Dr Ermira Tartari Bonnici
- Professional Development Dr Michelle Camilleri
- Professionalisation, Autonomy and Accountability in Nursing Dr Catherine Sharples
- Public Health Dr Norma Josephine Delezio
- Rehabilitation Dr Anthony Scerri
- Reproductive Health Dr Roderick Bugeja
- Respiratory Care Nursing Dr Daren Chircop
- Resuscitation Education Dr Trevor Abela Fiorentino
- Self-Management of Chronic Conditions Prof. Roberta Sammut/ Dr Norma Josephine Delezio
- Self-Management of Chronic Illnesses Dr Norma Delizio
- Sex, Sexuality and Sexual Health/Behaviours Dr Roderick Bugeja
- Sexuality and Relationships Education Dr Roderick Bugeja
- Simulation Education Dr Trevor Abela Fiorentino
- Skin and Wounds Dr Corinne Scicluna
- Specialist Nursing Dr Corinne Scicluna
- Ventilator-Associated Pneumonia Dr Ermira Tartari Bonnici
- Virtual Reality/Artificial Intelligence in Nursing Education Dr Roderick Bugeja

Occupational Therapy

- Alzheimer's Disease and Related Dementias Dr Marjorie Bonello
- Availability and Accessibility of Play and Communal Spaces Dr Nathalie Buhagiar
- Children's Participation in Home, School and Community Dr Nathalie Buhagiar
- Clinical Reasoning in Acute Physical Occupational Therapy Settings -Dr Rene Mifsud
- Ergonomics and Occupational Therapy Dr Marjorie Bonello
- Evaluating School Based Occupation Therapy Services Dr Nathalie Buhagiar
- Exploring Occupational Engagement and Balance in Children with and without Disability - Dr Nathalie Buhagiar
- Occupation-Based Resources and Technology Dr Rene Mifsud
- Outcomes of Occupational Therapy Rehabilitation Dr Rene Mifsud
- Parenting Children with Disability Dr Nathalie Buhagiar
- Practice Based Education Dr Marjorie Bonello
- Pre-school Children, Play and Practice Dr Nathalie Buhagiar
- Strengths and Challenges in Engaging in Childhood Occupations Children's Voices - Dr Nathalie Buhagiar
- Supported Community Living of Older Adults Dr Rene Mifsud

Physiotherapy

- Physiotherapy in the Management of Pain Dr John Xerri De Caro
- Prediction Models for Determinants in Aquatic-Based Sports Dr John Xerri De Caro
- Reducing Frailty Scores in Long-Term Care Dr Stephen Lungaro Mifsud

Podiatry

- Clinical Biomechanics Prof. Alfred Gatt
- Diabetes Foot Screening Prof. Cynthia Formosa
- Diabetic Foot Biomechanics Prof. Alfred Gatt
- Diabetic Footwear Dr Stephen Mizzi
- In Shoe Micro-Climate Dr Stephen Mizzi
- Nail Surgery Dr Anabelle Mizzi
- Peripheral Arterial Disease Dr Anabelle Mizzi
- Podiatric Dermatology Dr Stephen Mizzi
- Podiatric Sports Medicine Prof. Alfred Gatt
- Podogeriatrics Prof. Cynthia Formosa
- Podopaediatrics Prof. Cynthia Formosa
- The Diabetic Foot Prof. Cynthia Formosa
- Thermograpghy Prof. Alfred Gatt/Dr Stephen Mizzi
- Vascular Assessment of the Lower Limbs Dr Anabelle Mizzi

Radiography

- Advanced Practice in Radiotherapy Dr Guilherme Couto
- Advanced Practice /Role Development/Role Extension in Radiography Prof. Paul Bezzina, Dr Jonathan L Portelli/Prof. Francis Zarb
- Al in Medical Imaging and Radiotherapy Dr Susan Mercieca/Dr Jonathan L. Portelli
- Applications of Digital Health Technologies to Improve Hospital Workflows and Treatment Outcomes - Dr Susan Mercieca/Dr Jonathan L Portelli
- Applications of mHealth Technologies in Radiotherapy Dr Susan Mercieca
- Assessment of Maltese Patients' Perceptions of the Educational Requirements of Therapy Radiographers - Prof. Paul Bezzina
- Benefit-Risk Communication in Radiography Dr Jonathan L. Portelli
- Cancer Survivorship Dr Gerbert van Dijk
- Dose/Risk Optimisation Prof. Francis Zarb/Prof. Paul Bezzina/ Dr Jonathan L. Portelli
- Education of Radiotherapy Dr Guilherme Couto
- Hybrid Imaging Involving Molecular Imaging Modalities Dr Karen Borg Grima
- Image Quality Prof. Francis Zarb
- Management of Uncertainties in Radiotherapy Planning Dr Susan Mercieca
- MR Linac Dr Susan Mercieca
- Nuclear Medicine Imaging Dr Karen Borg Grima
- Paediatric Radiography Dr Jonathan L. Portelli
- Patient Care/Patient Experience in Radiography Prof. Paul Bezzina/
 Dr Jonathan L. Portelli/Dr Karen Borg Grima
- Patient Care/Patient Experience in Radiotherapy Dr Gerbert van Dijk
- Quality of Life of Cancer Patients, Survivors and Carers Dr Gerbert van Dijk
- Radiation Safety Prof. Paul Bezzina/Dr Jonathan L. Portelli
- Radiobiology in Radiotherapy Dr Guilherme Couto
- Radiography Research Prof. Paul Bezzina/Prof. Francis Zarb
- Radiographers' Competencies and Education Prof. Paul Bezzina/ Dr Jonathan L. Portelli
- Radiopharmacy Science and Procedures Dr Karen Borg Grima
- Sustainability in Radiotherapy/Radiography Dr Guilherme Couto