

## Faculty Website Research Interests to Supervise Research Degrees (MSc and PhD)

### Faculty for the Built Environment

#### University of Malta

Lecturer	Faculty Code	Department Code	Lecturer Research Code	Research Degree Route Code	Research Topic Code					
					01	02	03	04	05	06

Bianco Lino	BEN	AUD (Architecture & Urban Design)	01	ARH (Architecture)	Philosophy, history and theory of architecture and urban design	Twentieth century Euro-Asian architecture					
Mercieca Alexia	BEN	AUD (Architecture & Urban Design)	02	ARH (Architecture)	Design for dementia (or cognitive impairment in general)	Design for mental health	Design for different physical and learning abilities	Health and wellbeing	Design of care environments		
Miodragovic Vella Irina	BEN	AUD (Architecture & Urban Design)	03	ARH (Architecture)	Computational thinking in architectural design	Associative geometry in architectural design	Parametric architectural design				
Scheiber Sarah	BEN	AUD (Architecture & Urban Design)	04	ARH (Architecture)	Introducing green infrastructure planning in the form of green open space networks within dense urban areas	Use of urban living/learning labs as a co-governance approach in driving green infrastructure planning	Understanding the social, economic and environmental impacts of green infrastructure interventions in the Maltese context	Integrated spatial planning in Malta with a focus on transportation and open space planning	Integrated design of public space as a means to sustainable and resilient cities		
Torpiano Alex	BEN	AUD (Architecture & Urban Design)	05	STE (Structural Engineering)	Structural masonry	Prehistoric masonry structures	Reinforced and prestressed Concrete	Engineering education systems			
				CNS (Construction)	Concrete technology						
				CNV (Conservation)	Deterioration and repair of stone						

Bonello Marc	BEN	CVE (Civil & Structural Engineering)	01	STE (Structural Engineering)	Earthquake engineering and seismic vulnerability analysis & design of buildings	Structural reliability analysis and design of bridge & offshore structures	Structural steel design and detailing	Structural optimization	Structural dynamics and vibration analysis	Structural conservation of historic and prehistoric monuments
				CNS (Construction)	Waste management & recycling of inert excavation, construction and demolition waste					
Buhagiar Spiridione	BEN	CVE (Civil & Structural Engineering)	02	STE (Structural Engineering)	Buckling of thin-walled cold formed sections	Prestressed concrete design	Glass structures	Connection design		
				CNS (Construction)	Building waste recycling					
Mifsud Adrian	BEN	CVE (Civil & Structural Engineering)	03	CER (Civil Engineering)	Mechanical behaviour of weak rocks	Identification of discontinuities in a rock mass by inspecting borehole walls rather than borehole cores	Mechanical characteristics of the Upper Globigerina of North-West Malta	Differences in mechanical properties between the weathered (yellowish-brown) and non-weathered (dark olive green) versions of the local Blue Clay		
				CNS (Construction)	Review of case law regarding third party issues during excavation					
Munoz-Abela Jeanette Mireille	BEN	CVE (Civil & Structural Engineering)	04	STE (Structural Engineering)	Instability of structures	Sustainable and regenerative design	Retrofitting of structures	Structural conservation of heritage buildings		
				CNS (Construction)	Interdisciplinary approaches to design for community/ society well-being					

Cassar JoAnn	BEN	CBH (Conservation & Built Heritage)	01	BTH (Built Heritage)	Climate change and cultural heritage	Earth observations for cultural heritage				
				CNV (Conservation)	Conservation education	Conservation science and building materials	Conservation of archaeological sites	Deterioration and conservation of building materials		
Cefai Shirley	BEN	CBH (Conservation & Built Heritage)	02	CNV (Conservation)	Philosophy and Theory of Conservation (in particular, of values)					
				CHM (Cultural Heritage Management)	Authenticity	Memory and integrity	Museography an museum studies			
Grima Reuben	BEN	CBH (Conservation & Built Heritage)	03	CHM (Cultural Heritage Management)	Cultural Landscapes	Cultural heritage and public equity	Heritage management in imperial and colonial settings			
Pasian Chiara	BEN	CBH (Conservation & Built Heritage)	04	CNV (Conservation)	Injection grouts for historic plasters and decorated surfaces	Repair and sacrificial plasters	Lime-based and 'new' inorganic binders-based materials	Laboratory and field testing - appropriateness and revision of procedures and standards	Ad hoc treatment development, testing and implementation	
Porter Jennifer	BEN	CBH (Conservation & Built Heritage)	05	CNV (Conservation)	Wall painting technology	Evaluation of past conservation treatments	Design and testing of conservation treatments; development of field-testing of treatments	Technical and diagnostic imaging	Archaeological wall painting	

Borg Ruben	BEN	CPM (Construction & Property Management)	01	CNS (Construction)	Concrete Engineering; High-performance cement-based material; Self-healing Self-compacting fibre-reinforced concrete	Supplementary cementitious materials in concrete & geopolymer concrete	Recycling of waste materials; C&D excavation waste recycling	Degradation assessment, strengthening, repair and restoration of reinforced concrete structures	Smart structures: structural health & durability monitoring	Sustainable construction and life time structural engineering; Life Cycle Analysis
				STE (Structural Engineering)	Structural vulnerability assessment; seismic vulnerability and resilience	Cultural heritage and industrial heritage structures				
Dalli Gonzi Rebecca	BEN	CPM (Construction & Property Management)	02	PMN (Property Management)	Strategy and management	Risk	Project management	Good governance for decision-making	Change management and innovation in the construction sector	
Spiteri Joseph	BEN	CPM (Construction & Property Management)	03	PMN (Property Management)	Construction methods for local construction trades	Impacts of the Covid pandemic on the local construction industry	Valuation issues			
				ARH (Architecture)	Accessible environments					

Borg Simon	BEN	EVD (Environmental Design)	01	EDN (Environmental Design)	Natural Ventilation	Energy Policy	Renewable Energy Systems	Building Simulation	HVAC & CCHP Systems	
Buhagiar Vincent	BEN	EVD (Environmental Design)	02	EDN (Environmental Design)	Environmental design	Energy use in Buildings	Lighting	Acoustics and noise Control	Thermal comfort	Post-occupancy evaluation
Micallef Daniel	BEN	EVD (Environmental Design)	03	EDN (Environmental Design)	Wind engineering	Wind energy	Computational Fluid Dynamics	Ventilation	Indoor air flows and air quality	Fluid Mechanics

Gatt Kevin	BEN	SPI (Spatial Planning & Infrastructure)	01	INR (Infrastructure)	Water, waste, environmental and resource governance	Water resources management	Waste management	Sustainable development	Resilience in the built environment	
Lewis Odette	BEN	SPI (Spatial Planning & Infrastructure)	02	INR (Infrastructure)	Planning and design of transport infrastructure	Greener and smarter mobility options (incl. autonomous driving, electromobility and mobility-as-a-service (MaaS))	Maximising public space to create people-friendly urban streets, cater for multi-modality and incorporate green and blue infrastructure	Retrofit of transport infrastructure to cater for electromobility and alternative fuel infrastructure	Public value capture for financing public infrastructure	
Mifsud Wendy Jo	BEN	SPI (Spatial Planning & Infrastructure)	03	SPI (Spatial Planning)	Planning as political practice	Positioning the 'just city' in planning practice	Post-colonialism in Malta and the Commonwealth	Participatory planning in the built environment	Participatory GIS and Citizen Science in spatial planning	
Zammit Antoine	BEN	SPI (Spatial Planning & Infrastructure)	04	SPI (Spatial Planning)	Urban design quality and the development planning process: achieving design quality through plans/policies & development control/management	Socio-spatial analysis/impact within the built environment & socio-spatial phenomena such as gentrification	Urban allotments/community gardens and urban designers' role in their creation/design/management & green/sustainable urbanism principles	The role of ICT in the design and management of public space and in facilitating the democratisation of space (or otherwise) & ICT as a tool in participatory approaches to design/planning	Good spatial design, the role of the urban context, the role of the ground floor and its relationship with the human scale & public/private spatial interfaces	

Grech Anton	BEN	VSA (Visual Arts)	01	VSA (Visual Arts)	Fine art practice					
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