

Masters study programme
“Virtual Reality and Smart Technologies”

Programme modules	Semester 1					Semester 2					Semester 3					Semester 4					Code / URL
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	
VR/AR project planning and implementation (9 ECTS)																					
VR/AR innovations and actuality in various industries (3 ECTS)	x																				DatZM003
VR/AR hardware and physical structure (3 ECTS)	x																				DatZM002
Interactivity, scenarios composition and serious games (3 ECTS)		x																			DatZM001
VR/AR authoring (21 ECTS)																					
3D modelling approaches and scripting (Blender) (3 ECTS)		x																			DatZ1019
Development of advanced 3D interactive environments (Unity) (6 ECTS)			x	x																	DatZM020
Development of advanced 3D interactive environments (Unreal) (6 ECTS)			x	x																	DatZM021
Web based and Mobile VR and AR solutions (6 ECTS)				x	x																DatZM022
User experience design and implementation (9 ECTS)																					
UX strategy framework. (3 ECTS)						x															DatZ1023
Human factors and human-computer interaction (3 ECTS)						x															DatZ1024
Motion graphics and environmental effects (3 ECTS)							x														DatZ1025
Recognition services and intellectual environments (9 ECTS)																					
Geometry processing and visualization (3 ECTS)							x														DatZ1018
Augmented reality and computer vision algorithms (3 ECTS)								x													DatZ6003
Introduction in machine-learning and neural networks (3 ECTS)								x													DatZ6004
VR/AR project sustainability and transformation (18 ECTS)																					
Innovations and project management (3 ECTS)								x													VadZ6013
Simulation modelling and data 3D visualization (3 ECTS)								x													DatZ6006
Hackathon and teamwork (3 ECTS)									x												DatZ6005
Research methodologies and scientific publications (3 ECTS)											x										Citi6001
Legal and Institutional Framework of International Business (3 ECTS)											x										EkonM020
Free choice module courses* (3 ECTS)											x	x									-
Internship for all master students (18 ECTS)											x	x	x	x	x						DatZR003
Master thesis (30 ECTS)																x	x	x	x	x	DatZN001

*In order to view other study course outline please follow: <https://luis.lu.lv/pls/va/kursi.startup?l=2> Then choose the appropriate *study programme*.