

Master of Science in

GAMENT DEVELOPMENT AND MANAGEMENT

ABOUT THE PROGRAMME

The Master of Science in Game Development and Management (MSc-GDM) aims to address the growing need for digital professionals who fluidly combine (1) professional and technical skills in game applications and production; (2) professional knowledge of product management and innovative game development; and (3) trend analysis and research skills in interdisciplinary and collaborative projects for real-world practices.





PROGRAMME CURRICULUM

The programme follows a Dual-Cluster Approach, with 70% of the content focused on Digital Game Development (DGD) and 30% on Strategic Management and Analysis (SMA). It requires a total of 30 credits and can be completed in either one year of full-time study or two years of part-time study. Students must fulfil the graduation requirements by completing six core courses (21 credits) and three elective courses (9 credits) from five available options.



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•	Trend Analysis on Gaming and Entertainment	SMA
•	Game Design and Programming	DGD
•	Advanced Digital Processes: From Innovative Computation to Production	DGD
•	Leadership and Entrepreneurship for Creative Industries	SMA
>	Advanced Research Methods on Usability and Playability	DGD

Research Project in Innovative Gaming

and Entertainment

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Elective Courses

DGD Electives:

- ► Interactive Design for Extended Reality (XR)
- Artificial Intelligence for Gaming and Robotics
- Selected Topics

SMA Electives:

- Managing eSports
- Strategies for Game Development

Highlights: Research Component and Industry/Technical Research-Informed Project

The MSc-GDM involves both classroom and real-world learning. In GDM516 Advanced Research Methods on Usability and Playability aims to provide students with competence and proficiency in both the theory and practice of research, specifically focusing on usability and playability, which are crucial areas of research within the creative industries.

DGD

During the final technical research-informed project, students have to undertake an industry immersion component in the GDM517 Research Project in Innovative Gaming and Entertainment. An industrial field trip is also offered as an optional activity, enabling students to interact with industry professionals, learn from their experiences and best practices, and gain a deeper understanding of the game development process from inception to release, as well as the current challenges faced by the industry. These industrial components aim to bridge the gap between academic learning and industry practices, preparing students for successful careers in the creative industries.

▶ Study plan for MSc-GDM **FULL-TIME** students

Year I Semester (Fall)	
Core Courses	No. of Credits
GDM 521 Trend Analysis on Gaming and Entertainment	3
GDM 511 Game Design and Programming	3
GDM 516 Advanced Research Methods on Usability and Playability	3
Elective Courses*	No. of Credits
Elective course from DGD Cluster	3
Elective course from SMA Cluster	3
Sub-Total	15

Year I Semester (Spring)		
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Core Courses	No. of Credits	
GDM 522 Leadership and Entrepreneurship for Creative Industry	3	
GDM 512 Advanced Digital Processes: From Innovative Computation to Production	3	
GDM 517 Research Project in Innovative Gaming and Entertainment#	6	
Elective Courses*	No. of Credits	
Elective course from DGD Cluster	3	
Sub-Total	15	
"Student's proposal submitted during the winter semester break		

STUDY MODE

21

9

- *GDM510 Interactive Design for Extended Reality (XR)
- *GDM513 Artificial Intelligence for Gaming and Robotics
- *GDM515 Selected Topics
- *GDM523 Managing eSports
- *GDM524 Strategies for Game Development

Total

Core Courses

Elective Courses

▶ Study plan for MSc-GDM **PART-TIME** students

Core Courses	No. of Credits
GDM 521 Trend Analysis on Gaming and Entertainment	3
GDM 511 Game Design and Programming	3
Sub-Total	

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GDM 511 Game Design and Programming	3	
Sub-Total	6	
Year I Semester (Spring)		
Core Courses	No. of Credits	
GDM 512 Advanced Digital Processes: From Innovative Computation to Production	3	
GDM 522 Leadership and Entrepreneurship for Creative Industry	3	
Elective Courses*	No. of Credits	
Elective course from DGD Cluster	3	
Sub-Total	9	
*GDM510 Interactive Design for Extended Reality (XR)		

- *GDM513 Artificial Intelligence for Gaming and Robotics
- *GDM515 Selected Topics
- *GDM523 Managing eSports
- *GDM524 Strategies for Game Development

Year 2 Semester (Fall)	
Core Courses	No. of Credits

Methods on Usability and Playability	3
Elective Courses*	No. of Credits
Elective course from DGD Cluster	3
Elective course from SMA Cluster	3
Sub-Total	

LUIE LUUISES	No. of Credits
GDM 517 Research Project in Innovative Gaming and Entertainment #	6
Sub-Total	

*Student's proposal submitted during the winter semester break

Core Courses 21 **Elective Courses** 9

Total

CAREER PROSPECTS



Game Producer



AIR developer



Game Designer

eSport Manager



ADMISSION REQUIREMENTS

Applicants should hold a recognised bachelor's degree in digital media, computer science, digital business, or other related areas from an institution recognised by the University. Both recent graduates and individuals with relevant industry experience are encouraged to apply.

English Language Requirements:

Fluency in English, in both oral and written forms, is required of all applicants. Applicants with degrees from an institution where the medium of instruction is English will be assumed to have met this requirement.

Applicants whose entrance qualification is obtained from an institution where the medium of instruction is not English should also fulfil the following minimum English proficiency requirement.

- Overall score 6.0 in International English Language Testing System (IELTS) (Academic), with no subtest score lower than 5.5:
- Score 550 (Paper-based test) or 80 (Internet-based test) in TOEFL;
- CET6 450; (OR)
- Other equivalent qualifications.

