



NATIONAL UNIVERSITY OF MANAGEMENT
SCHOOL OF GRADUATE STUDIES
MASTER OF SCIENCE IN DIGITAL ECONOMY

1. Program Learning Outcomes

The Master of Science in Digital Economy program is designed for students who wish to further develop/upgrade their knowledge and skills in the fields of digital economy, smart city planning management and financial technology. Students will complete 48 credit hours comprising of 36 credits for basic core courses, major courses and elective courses and 12 credits for thesis.

Under this program, the students are encouraged to actively participate in laboratory activities, guest lectures/workshops and local/oversea study tours.

2. Admission Requirements

Applicants must possess a Bachelor’s degree in Information Technology, Digital Economy, Financial Technology, Smart City Management Planning, Finance, Economics, Management or any other equivalent qualification recognized by the Ministry of Education Youth and Sport. Applicant must successfully defend the research proposal and English proficiency test.

3. Schedule

MONDAY - FRIDAY: 5:30PM - 8:30PM	WEEKEND CLASS: SATURDAY & SUNDAY
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4. Semester Breakdown

YEAR I			
Semester 1 (4 Basic Courses +1 Seminar)	Credit 13	Semester 2 (2 Majors+ 2 Electives+1 Seminar)	Credit 13
MDE501-Introduction to Digital Economics (Digital Economics)	3	MDE511-Economics of Data, Analytics and Transformation (Digital Economics)	3
MDE502-Technical Analysis of Financial Markets (Financial Technology)	3	MDE512-Blockchain Economics and Financial Market Innovation (Financial Technology)	3
MDE503-Components of Smart City Infrastructure (Smart City)	3	MDE521-Artificial Intelligence and Machine Learning in Smart City Planning (Smart City)	3
MDE504-Web 3 Technology for Business (Technology)	3	MDE522- Blockchain- A Practical Guideline to Develop Business, Law and Technology Solutions (Technology)	3
<i>Specialized Seminar I*</i> (Digital Economy, FinTech, Smart City)	1	<i>Specialized Seminar II**</i> (Digital Economy, FinTech, Smart City)	1
YEAR II			
Semester 1 (3 Majors+ 1 Elective+1 Seminar)	Credit 13	Semester 2 Research Thesis	Credit 12

MDE611-Statistical and Machine-Learning Data Mining-Techniques for Better Predictive Modeling and Analysis of Big Data (Digital Economics)	3	Research Thesis**** (including Specialized Seminars I*, II**, III**)	9 (3)
MDE612-Decentralize Finance: How Financial Innovation is Transforming the Banking Industry (Financial Technology)	3		
MDE613-Research Methodology	3		
MDE621-Challenges and Solutions for Sustainable Smart City Development (Smart City)	3		
Specialized Seminar III** (Digital Economy, FinTech, Smart City)	1		

(*,**,***,**** are under each student's Academic Supervisor)