

Game Developments Technology Program

Study Plan

1	Code	Course Name	Contact Hours	Credit Hours	SWL	Prerequisites
	CET111	Introduction to Computer and Programming	6	4	180	
	GEN111	Applied Mathematics I	5	4	150	GEN011
	EPT111	Computer Aided Engineering Drawing	4	3	120	
	HUM121	Principles of Law, Human Rights & Ethics	2	2	60	
	HUM111	English Language I	2	2	60	HUM011
	CET151	Orientation to Field and Studies	2	2	60	
			21	17	630	

2	Code	Course Name	Contact Hours	Credit Hours	SWL	Prerequisites
	CET112	Object Oriented Programming	6	4	180	CET111
	CET161	Network Basics	4	3	120	
	GEN122	Principles of Physics	4	3	120	
	CET153	Basics of Game Graphics	4	3	90	
	CET141	Database Management Systems	4	3	120	
	HUMUE1	University Elective I	2	2	60	
	CET191	CET Internship I	6	3	180	
			30	21	870	

3	Code	Course Name	Contact Hours	Credit Hours	SWL	Prerequisites
	CET213	Software Engineering	4	3	120	CET112
	CET212	Operating Systems	4	3	120	
	CET411	Game Programming	4	3	120	CET112
	CET211	Data Structures & Algorithms	6	4	180	CET112
	CET291	CET Project I	1	2	120	
	HUM231	Presentation Skills and Technical Writing	2	2	60	HUM111
			21	17	720	

4	Code	Course Name	Contact Hours	Credit Hours	SWL	Prerequisites
	GEN113	Applied Mathematics II	5	4	150	GEN111
	CET244	Graphics Programming	4	3	90	CET153 AND CET112
	CET253	Game Design	4	3	90	
	CET251	Artificial Intelligence	4	3	120	CET111
	CET292	CET Project II	1	4	240	CET291
			18	17	690	

5	Code	Course Name	Contact Hours	Credit Hours	SWL	Prerequisites
	CET353	Advanced Object Oriented Programming	6	3	90	CET112
	CET356	Advanced Data Structures and Algorithms	4	3	90	CET211
	GEN312	Game Mathematics	6	4	120	GEN113
	GEN321	Game Physics	6	4	120	GEN122
	CET231	Cyber & Information Security	4	3	120	CET161
	HUMUE2	University Elective II	2	2	60	
			28	19	600	

6	Code	Course Name	Contact Hours	Credit Hours	SWL	Prerequisites
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	CET417	Advanced Software Engineering	4	3	120	CET213
	CET3E5	GD Major Elective I	8	3	90	
	CET358	Game Publishing and Analytics	4	3	90	
	CET354	Advanced Game Programming	4	3	90	CET411
	HUM431	Project Management	4	3	120	
	HUM311	English Language II	4	3	120	HUM111
	CET392	CET Internship II	6	3	180	CET191
			34	21	810	

7	Code	Course Name	Contact Hours	Credit Hours	SWL	Prerequisites
	CET355	Game Industrial Business	2	2	60	
	CET491	CET Project III	1	4	240	CET292
	CET493	Thesis I	8	6	180	
			11	12	480	

8	Code	Course Name	Contact Hours	Credit Hours	SWL	Prerequisites
	CET4E6	GD Major Elective II	8	3	90	CET3E5
	CET492	CET Project IV	1	4	240	CET491
	CET494	Thesis II	8	6	180	CET493
			17	13	510	

		Total	Credit Hours: 137
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- HUMUE1: University Elective I
 - HUM113: German Language
 - HUM114: Italian Language
 - HUM131: Innovation & Entrepreneurship
 - HUM132: Management and Leadership Skills
 - HUM133: Communication and Negotiation Skills
 - HUM141: Principles of Economics
 - HUM151: History of Engineering & Technology
 - HUM152: History of Art & Architecture
 - HUM153: The Character of Egypt
 - HUM154: Arabic Language
 - HUM161: Sustainability for Entrepreneurship
 - HUM162: Sustainability for Employment
 - HUM163: Health and Safety
 - HUM164: Social Responsibility
 - HUM171: Preparing Technical Reports
 - HUM172: Scientific Research & Critical Thinking
 - HUM251: Safety and risk
- HUMUE2: University Elective II
 - HUM113: German Language
 - HUM114: Italian Language
 - HUM131: Innovation & Entrepreneurship
 - HUM132: Management and Leadership Skills
 - HUM133: Communication and Negotiation Skills
 - HUM141: Principles of Economics
 - HUM151: History of Engineering & Technology
 - HUM152: History of Art & Architecture
 - HUM153: The Character of Egypt
 - HUM154: Arabic Language
 - HUM161: Sustainability for Entrepreneurship
 - HUM162: Sustainability for Employment
 - HUM163: Health and Safety
 - HUM164: Social Responsibility
 - HUM171: Preparing Technical Reports
 - HUM172: Scientific Research & Critical Thinking
 - HUM251: Safety and risk
- CET3E5: GD Major Elective I
 - CET214: Web Programming
 - CET215: Mobile Application Development
 - CET241: Cloud Databases
 - CET242: Data Analytics and Visualization

- CET416: DevOps
- CET5E1: Game UI/UX Design
- CET5E3: Serious Games & Gamification
- CET4E6: GD Major Elective II
 - CET214: Web Programming
 - CET215: Mobile Application Development
 - CET218: Advanced Web Programming
 - CET241: Cloud Databases
 - CET242: Data Analytics and Visualization
 - CET416: DevOps
 - CET5E1: Game UI/UX Design
 - CET5E3: Serious Games & Gamification