



Bachelor of Science in Data Science and Artificial Intelligence Model Study Plan (2024-2025 Cohort onwards)

For Students Admitted to the University from the Fall Semester Total Degree Credit hours: 120

	Semester	Course Code	Course Title	H Course type		Semester	Course Code	Course Title	СН	Course type
ar 1		GEAE101		Gen Ed Course (Cluster 1: Area 2: English Co		2 (Spring)	STAT210	Probability and Statistics		cialization
		MATH105	Calculus I	Gen Ed Course (Cluster 1: Area 5: Quantitat	ive Reasoning)		MATH110	Calculus II	3 Spe	acialization
	(Fall)	CS8P119		Gen Ed Course (Cluster 1: Area 4: Critical Th			CS8P219	Object Oriented Programming		acialization
se .		6ESU121		Gen Ed Course (Cluster 3: Area 2: Sustainab			GEIT112	Fourth Industrial Revolution		n Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
		Elective	Student choice	Gen Ed Course (Cluster 3: Area 1: Natural Sc	ciences)		MATH140	Linear Algebra 1	3 Spe	acialization
				5					15	
	2		Student choice	Gen Ed Course (Cluster 2: Area 2: Social and	Behavioral Sciences)	4 (Spring)	CSBP340	Database Systems		cialization
2	3	CS8P323	Data Structures and Algorithms	3 Specialization			SWEB450	Analysis of Algorithms	3 Spe	acialization
ar	(Fall)	MATH240		3 Specialization			STAT470	Introduction to Statistical Computing		acialization
%		MATH290		3 Specialization			CSBP224	Introduction to DataScience		acialization
		STAT240	Data Exploration and Analysis	3 Specialization		(Spring)	CENG202	Discrete Mathematics	3 Spe	acialization
				5					15	
	5	Elective		Major Elective		6 (Spring)	CS8P320	Data Mining	3 Spe	cialization
e		CS8P301	Artificial Intelligence	3 Specialization			ITBP324	Cloud Computing Fundamentals	3 Spe	acialization
ar	(Fall)	GEEM105	Emirates Studies	Gen Ed Course (Cluster 2: Area 3: Emirates 5	lociety)		CS8P411	Machine Learning	3 Spe	acialization
Çe.		Elective		Major Elective			Elective	Student choice	3 Maj	or Elective
ſ		ITEP418	Entrepreneurship in Information Technology	Gen Ed Course (Cluster 1: Area 1: Innovatio	n and Entrepreneurship)		ISEC411	Privacy and Anonymity	3 Sup	aport course
				5					15	
	7	MATH350	Student choice 3 Student choice 3	Support course		•	ITBP481	Senior Graduation Project II	3 Spe	cialization
4		Elective		Major Elective		8	Elective	Student choice	3 Maj	or Elective
3		Elective		Gen Ed Course (Cluster 2: Area 1: Humaniti	es and Fine Arts)	-	GEI5101	Biography of the Prophet "Sira"	3 Ger	n Ed Course (Cluster 2: Area 4: Islamic Culture)
÷.	(Fall)	ITEP480		3 Specialization		(Spring)				
£		Elective	Student choice	Major Elective						
				5					2	
ŝ	9	IT8P495	95 Internihip II							
Year	5			s		1				
	(Fall)									

Bachelor of Science in Data Science and Artificial Intelligence Model Study Plan (2025-2026 Cohort onwards)

For Students Admitted to the University from the Fall Semester

Total Degree Credit hours: 120

	Semester	Course Code		CH Course type	Semester	Course Code		CH	
11	1	GEAE101		3 Gen. Ed. Theme 2: Academic Language Proficiency	2	STAT210	Probability and Statistics		Specialization
		MATH105		3 Specialization		MATH110	Calculus II		Specialization
e	(Fall)	CS8P119		3 Specialization	(Spring)	CS8P219	Object Oriented Programming		Specialization
¥		GESU121	Sustainability	3 Gen. Ed. Theme 5: Sustainability		ITBP301	Security Principles & Practice		Specialization
		PHYS105	General Physics1	3 Specialization		MATH140	Linear Algebra I	3	Specialization
				15				15	
	3			3 Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11	4	CSBP340	Database Systems		Specialization
~		CSBP323	Data Structures and Algorithms	3 Specialization		SWEB450	Analysis of Algorithms		Specialization
e	(Fall)	MATH240		3 Specialization		STAT470	Introduction to Statistical Computing		Specialization
÷		MATH290	Computational Mathematics	3 Specialization		CSBP224	Introduction to DataScience	3	Specialization
		STAT240	Data Exploration and Analysis	3 Specialization		CENG202	Discrete Mathematics	3	Specialization
				15				15	
	5	Elective		3 Major Elective	6 (Spring)	Elective	Student choice		Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11
		CS8P301		3 Specialization		ITBP324	Cloud Computing Fundamentals		Specialization
3	(Fall)	GEEM110	Contemporary Emirati Studies	3 Gen. Ed. Theme 1: UAE National Identity		CS8P411	Machine Learning	50	Specialization
e,		Elective	Student choice	3 Support Elective		ISEC411	Privacy and Anonymity		Support course
		ITBP218	Entrepreneurship and New Venture Creation in IT	3 Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)		Elective	Student choice	3	Major Elective
				15				15	
	7	MATH350	Optimization Methods	3 Support course	8 (Spring)	ITBP481	Senior Graduation Project II	5	Specialization
4		Elective	Student choice	3 Support Elective		Elective	Student choice	3	Support Elective
3		Elective	Student choice	3 Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11		CSBP320	Data Mining	50	Specialization
χe	(Fall)	ITEP480		3 Specialization					
		Elective	Student choice	3 Major Elective					
				15				3	
r 5	9	1782495	Internship						
Yea	(Fall)	110/495	internanip	6 Internship					
				6					