

**University of Mosul / College of Engineering /
Computer Engineering Department
Curricula for the Academic Year 2024-2025**

**Curricula of the Computer Engineering
Department,**

Third Academic Level, First Semester

Curricula of the Computer Engineering Department

Third Academic Level (First Semester)								
Type of Requirement	Requirement Type (Mandatory – Elective)	Course Name	Number of Theoretical Hours	Number of Practical Hours	Number of Credits	Prerequisite (if applicable)	Course Code	Notes
College Requirements	Mandatory	English language – Intermediate	2	-	2	-	-	
Department Requirements	Mandatory	Computer Network I & Data Communication	3	2	4	-	CONE302	
	Mandatory	Signals & Systems	3	-	3	Engineering Mathematics II	SISY304	
	Mandatory	Computer Architecture I	3	-	3	Digital Systems Design	COAR305	
	Mandatory	Computer Interface	2	2	3	Microprocessors II	COIN306	
	Mandatory	Operating System I	2	2	3	Data Structures	OPSY307	
	Elective	Advanced Micro-Processor	2	-	2	-	AMPR310	The student chooses one course. The required number of credits = 2 credits.
		Soft Computing	2	-	2	-	SOCO311	
	Total Hours and Credits for the First Semester		17	6	20			

**University of Mosul / College of Engineering /
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Curricula for the Academic Year 2024-2025**

**Curricula of the Computer Engineering
Department**

Third Academic Level, Second Semester

Curricula of the Computer Engineering Department

Third Academic Level (Second Semester)								
Type of Requirement	Requirement Type (Mandatory – Elective)	Course Name	Number of Theoretical Hours	Number of Practical Hours	Number of Credits	Prerequisite (if applicable)	Course Code	Notes
Department Requirements	Mandatory	Computer Network II	2	2	3	Computer Network I & Data Communication	CONE351	
	Mandatory	Digital Signal Processing	3	-	3	Signals and Systems	DSPR352	
	Mandatory	Computer Architecture II	3	-	3	Computer Architecture I	COAR353	
	Mandatory	Operating System II	2	2	3	Operating System I	OPSY 354	
	Mandatory	Embedded System	2	2	3		EMSY358	
	Elective	Circuits VLSI	2	-	2		VLSI356	The student chooses one course. The required number of credits = 2 credits.
		Image Processing	2	-	2		IMPR355	
	Elective	Optimization	2	-	2		OPTI357	The student chooses one course. The required number of credits = 2 credits.
		Database System	2	-	2		DASY359	
	Total Hours and Credits for the Second Semester		16	6	19			

Note: Summer Training is a graduation requirement to be completed after the student finishes the third level, during the period from July 1 to July 31, or from August 1 to August 31.