

**Ministry of Higher Education and Scientific Research**  
**University of Oum El Bouaghi**

Institute of technology

Academic Year 2024/2025

Department: Network and telecommunications

**First Semester Organization Card, 1<sup>st</sup> Year :Master (M1), Branch:Telecommunications specialty:Network and Telecommunications**

Evaluation mode		Credits	coefficients	Number of weekly practical sessions	Number of weekly tutorials	Number of weekly lectures	Units and their components
Continuous assessment	Exam						
							<b>Fundamental Teaching Unit 1</b>
60%	40%	6	3	1	1	1	<b>Module 1:</b> Free Space Propagation
60%	40%	5	3	1	1	1	<b>Module 2:</b> Coding and Compression
							<b>Fundamental Teaching Unit 2</b>
60%	40%	5	3	1	1/2	1	<b>Module 1:</b> Advanced digital communications
60%	40%	5	3	1	1/2	1/2	<b>Module 2:</b> Routing
							<b>Methodological Teaching Unit</b>
100%		2	1	1			<b>Module 1:</b> Database and Web Development
60%	40%	2	1	1	1	1	<b>Module 2:</b> Signals and Systems
60%	40%	2	1	1		1	<b>Module 3:</b> FPGAs and Hardware Description Languages
							<b>Discovery Teaching Unit</b>
100%		2	1	1			<b>Module 1:</b> Study and realization of projects
							<b>Transversal Teaching Unit</b>
100%		1	1	1			<b>Module 1:</b> Technical English

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## Second Semester Organization Card, 1<sup>st</sup> Year : Master (M1), Branch:Telecommunications specialty:Network and Telecommunications

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Half-yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Assessment method	
	Titled			Course	TD	TP			Continuous Assessment	Exam
Fundamental EU Code: UEF 1.2 Credits: 11 Coefficients: 6	Antennas and radiation	6	3	1h30	1 hour	1h30	60h00	65h00	60%	40%
	Network administration	5	3	1h30	1 hour	1h30	60h00	65h00	60%	40%
Fundamental EU Code: UEF 2.2 Credits: 10 Coefficients: 6	Digital signal processing	5	3	1h30	1 hour	1h30	60h00	65h00	60%	40%
	Real-time embedded systems	5	3	1 hour	1 hour	1h30	52:30	54h00	60%	40%
Methodological EU Code: UEM 1.2 Credits: 6 Coefficients: 3	Industrial networks	2	1		1 hour	1 hour	30h00	32h00	100%	
	Smart energy networks	2	1	1 hour	1 hour	1 hour	45h00	45 hours	60%	40%
	Internship and supervised project	2	1			1h30	10:30 p.m.	24h00	100%	
EU Discovery Code: UED 1.2 Credits: 2 Coefficients: 1	Artificial Intelligence I	2	1		1 hour	1 hour	30h00	3:00 p.m.	100%	
Transversal EU Code: UET 1.2 Credits: 1 Coefficients: 1	Ethics, professional conduct and intellectual property	1	1			1 hour	3:00 p.m.	10:00 a.m.	100%	
Total semester 2		30	17	6:30 a.m.	7:00 a.m.	11:30 a.m.	375 hours	375 hours		

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## First Semester Organization Card, 2<sup>nd</sup> Year Master (M2), Branch:Telecommunications specialty:Systems Network and Telecommunications

Evaluation mode		Credits	coefficients	Number of weekly practical sessions	Number of weekly tutorials	Number of weekly lectures	Units and their components
Continuous assessment	Exam						
							<b>Fundamental Teaching Unit 1</b>
60%	40%	6	3	1	1	1	<b>Module 1:</b> Guided propagation
60%	40%	5	3	1	1	1	<b>Module 2:</b> Optoelectronic components for optical communication
							<b>Fundamental Teaching Unit 2</b>
60%	40%	5	3	1	1	1	<b>Module 1:</b> Mobile and Wireless networks
60%	40%	5	3	1	1/2	1	<b>Module 2:</b> Security of communication networks
							<b>Methodological Teaching Unit</b>
100%		2	1	1/2	1/2		<b>Module 1:</b> Digital TV
60%	40%	2	1	1		1	<b>Module 2:</b> Smart energy networks
100%		2	1	1			<b>Module 3:</b> Internship and tutored project
							<b>Discovery Teaching Unit</b>
100%		2	1	1			<b>Module 1:</b> Web of Things (WoT)
							<b>Transversal Teaching Unit</b>
100%		1	1			1	<b>Module 1:</b> Documentary research and memory design

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## Second Semester Organization Card, 2<sup>nd</sup> Year Master (M2), Branch: Telecommunications specialty:Systems Network and Telecommunications

Internship and Final Year Project	VHS	VH Biannual				Coefficient	Credits	Evaluation mode	
	14-16 weeks	C	TD	TP	Others			Exam	Continuous assessment
INTERNSHIP (4 weeks)					100	5	10		
PFE project (12 weeks)					300	12	20		
Total					400	17	30		