

Université de RENNES – ENSSAT

Academic Year 2024-2025

revision of 22/10/24

Fall Semester 3rd year Digital Systems Engineering for International Students

Teaching Unit	Module	ECTS	Assessment		Work Load			
			Session1	Session2	Lectures	Tutorial Classes	Practical work	personal working hours
Humanities	French as a foreign language	4	Continuous	none		30		20
Technical	Optimization and artificial intelligence technics	4	Project	none	24	6	4	42
	Project : Artificial Intelligence (Design and Simulation)	2	Practical work	none			22	32
	Project: artificial intelligence (HW implementation)	2	Practical work	none			10	24
	System on chip design	2	Practical work	none	6		12	18
	Integrated systems and high-level synthesis	2	Examination	Examination	18		6	18
	High-performance processors	3	Examination	Examination	22	4	8	26
	Compilation and code optimization	1	Continuous	none	6		10	12
	Hardware security	2	Practical work	none	13		12	20
	Source coding	1	Practical work	none	8		8	12
	Wireless communication	3	Practical work	none	20		10	28
Projects	Technical Project	10	Continuous	none			60	180