


## Université de RENNES 1 – ENSSAT

Année Universitaire 2020-2021

revision of 02/07/20

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	2	Continuous	none		30		20
	English	1	Continuous	none		30		20
	International Management	2	Continuous	none		30		20
	Conferences on Human Sciences		Mandatory attendance	none	20			
	Conferences on Technical Subjects		Mandatory attendance	none	20			
Technical	Machine Learning – Neural Networks	2	Project	none	28	6	12	31
	Detection-Estimation	1	Continuous	none	12			8
	Information theory and channel coding	1	Examination and Practical work	Examination	16		8	16
	Advanced image processing and analysis	2	Continuous	none	16		4	13
	Integrated systems and synthesis	2	Examination	Examination	18		6	16
	Advanced computer architectures	2	Examination	Examination	12	4	4	13
	Parallel computing	2	Examination	Examination	10		10	13
	System on chip design	1	Practical work	none	6		12	12
	Real-time UML/SysML	1	Continuous	Examination	16			11
	Source coding	2	Practical work	none	8		12	13
	Pattern recognition	1	Continuous	none	12			8
	Compilation and code optimization	1	Practical work	none	6		12	12
	Radiocommunication		Mandatory attendance	none	20		4	16
	Wireless communication	1	Practical work	none	8		8	11
Projects	Technical Project		Continuous	none			50	100