

INFORMATICS AND TELECOMMUNICATIONS ENGINEERING - STUDY PLAN

COURSE	INFORMATICS AND TELECOMMUNICATIONS ENGINEERING										
Course Code/Ner	9122										
Degree or Diploma	1st Cycle - Bachelor										
Duration (in semesters)	6 Semesters										
Main Scientific Field	Informatics / Telecommunications										
Director/Coordinator	Fernando Miguel Mamede Santos					Email: fsantos@estgl.ipv.pt					
Admission Requirements	One of the following admission exams: Physics and Chemistry (07) and Mathematics (16) ; Mathematics (16).										
CURRICULUM											
ECTS Code	Curriculum Unit	Scientific Field	Regime A/1S/2S	Type (Compulsory/Optative)	Work Load (hours)					ECTS Credits	
					Total	Contact					
						T	TP	LP	TU		S
1st YEAR											
1st Semester											
IPV.ESTGL.9122.301101	Mathematical Analysis	M	Semestrial	Compulsory	162		60				6
IPV.ESTGL.9122.301102	Linear Algebra and Analytical Geometry	M	Semestrial	Compulsory	162		60				6
IPV.ESTGL.9122.301103	Circuit Analysis	F	Semestrial	Compulsory	135		30	15			5
IPV.ESTGL.9122.301104	Digital Systems	E	Semestrial	Compulsory	135		30	15			5
IPV.ESTGL.9122.301105	Programming Fundamentals	I	Semestrial	Compulsory	162		30	30			6
IPV.ESTGL.9122.301106	Option 1	L	Semestrial	Compulsory	54		30				2
2st Semester											
IPV.ESTGL.9122.301208	Applied Mathematics	M	Semestrial	Compulsory	162		60				6
IPV.ESTGL.9122.301209	Physics	F	Semestrial	Compulsory	162		60				6
IPV.ESTGL.9122.301210	Electronic Fundamentals	E	Semestrial	Compulsory	162		30	30			6
IPV.ESTGL.9122.301211	Computer Systems Architecture	E	Semestrial	Compulsory	162		45	15			6

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IPV.ESTGL.9122.301212	Programming	I	Semestrial	Compulsory	162		30	30			6
					Sub - Total	810					30

2nd YEAR											
1st Semester											
IPV.ESTGL.9122.302113	Probability and Statistics	M	Semestrial	Compulsory	162		60				6
IPV.ESTGL.9122.302114	Electromagnetism	F	Semestrial	Compulsory	162		60				6
IPV.ESTGL.9122.302115	Applied Electronics	E	Semestrial	Compulsory	162		30	30			6
IPV.ESTGL.9122.302116	Algorithms and Data Structures	I	Semestrial	Compulsory	162		30	30			6
IPV.ESTGL.9122.302117	Computer Networks Fundamentals	T	Semestrial	Compulsory	162		30	30			6
				Sub - Total	810					30	
2st Semester											
IPV.ESTGL.9122.302218	Operational Research	M	Semestrial	Compulsory	162		60				6
IPV.ESTGL.9122.302219	Microcontrollers and Interfaces	E	Semestrial	Compulsory	162		30	30			6
IPV.ESTGL.9122.302220	Operating Systems	I	Semestrial	Compulsory	162		30	30			6
IPV.ESTGL.9122.302221	Communication Networks Infrastructures	T	Semestrial	Compulsory	162		30	30			6
IPV.ESTGL.9122.302222	Telecommunications Fundamentals	T	Semestrial	Compulsory	162		60				6
				Sub - Total	810					30	
3rd YEAR											
1st Semester											
IPV.ESTGL.9122.303123	Digital Signal Processing	E	Semestrial	Compulsory	162		60				6
IPV.ESTGL.9122.303124	Distributed Systems	I	Semestrial	Compulsory	162		30	30			6
IPV.ESTGL.9122.303125	Engineering Project Management	T	Semestrial	Compulsory	162		60				6
IPV.ESTGL.9122.303126	Network Planning and Management	T	Semestrial	Compulsory	162		30	30			6
IPV.ESTGL.9122.303127	Telecommunication Systems	T	Semestrial	Compulsory	162		30	30			6
				Sub - Total	810					30	
2st Semester											
IPV.ESTGL.9122.303228	Automation and Control	E	Semestrial	Compulsory	162		30	30			6
IPV.ESTGL.9122.303229	Database Systems	I	Semestrial	Compulsory	162		30	30			6
IPV.ESTGL.9122.303230	Audio and Video Systems	T	Semestrial	Compulsory	162		30	30			6

IPV.ESTGL.9122.303231	Option 2	EG	Semestrial	Compulsory	108		60				4
IPV.ESTGL.9122.303233	Final Project	P	Semestrial	Compulsory	216				15	45	8
					Sub - Total	810					30
					Total	4860					180

WORKLOAD - HOURS		SCIENTIFIC FIELDS	
T	Theoretical	M	Mathematics
TP	Theoretical/Practical	F	Physics
P	Practical	E	Electronics
LP	Lab Practice	I	Informatics
FW	Field Work	T	Telecommunications
S	Seminar	P	Project
PR	Project	LAN	Languages
PL	Placement	EMS	Economics and Management Sciences
TU	Tutorials		
OT	Others		