

Code number:		46675	Number of ECTS:	6 ECTS
Semester:		Autumn	Language:	English
Lecturer	(s) and contact:			
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•	Dr. Ignacio de N	liguel Jiménez (<u>Igna</u>	acio.miguel@tel.uva.es)	
• • • •	Communication Analyze and dec Enumerate and protocols in veh Enumerate and Enumerate and and vehicle to in Design and prog	Technologies) app code traces of basic describe the mos nicles. describe ICT applic describe basic ele nfrastructure comn gram applications a	and design of commercial dev dications in vehicles. protocols in vehicles. t important parameters of th ations and basic services in vel ments of communications in i nunication networks. nd devices for intra-vehicular of to develop and analyze ICT de	ne physical layer of the basi hicles. intra-vehicular, inter-vehicula communications.
	Introduction to Intra-Vehicular Inttroduction to Programming in CANoe advance	CAPL. d options for emula communications. O	AN Bus. ating whole systems	
Lab: 1. 2. 3. 4. 5. 6. 7.	CAN analysis: Ai CAN analysis: Re Sending CAN me CAPL Program. Captur Electron	iN signals, TeleAid I irbag signals. eal car trace. essages using CANc ic Architecture: Coi	Info-Call and Volume Control. De. ntrolling Infotainment from CA	Noe
8. 9. 10.	MOST Optical B ECU simulation Datalogger. Dia	using CANister. Bre	eathalyzer design and developr	nent.

10. Datalogger. Diagnostics.

Prerequisites:

This is an intermediate course, intended for learners with a background in computer and electrical engineering. To succeed in this course, you should have the following knowledge prerequisites:

• Intermediate programming experience, preferable in C.



- Familiarity with protocols, communications networks and telematic services.
- Basic use of laboratory equipment, mainly Oscilloscopes.