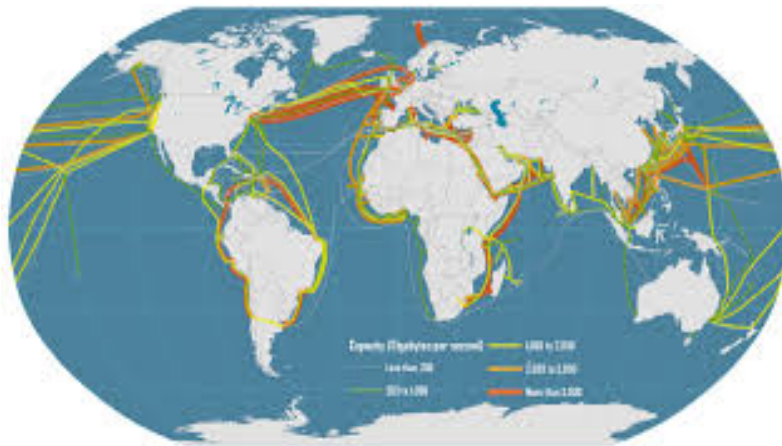# UNIVERSITÀ DI PARMA

MASTER OF SCIENCE IN COMMUNICATION ENGINEERING (LMCE)

Prof. Alberto Bononi
DIRECTOR

What is it?

- A **Telecommunication** Engineering 2-yr Master course in the **Information and Communication Technology (ICT)** area
- Offered entirely in Engish
- ~20 enrolled students per year (~80-90% from abroad)
- 30-hour video preparation-course offered BEFORE start of classes to homogenize basic students preparation

All info at https://communication-eng.unipr.it

INFO sources

Course operational web site (in English)
ONLINE PRE-SCREENING
http://communication-eng.unipr.it/index.php/admission-procedures/

ONLINE APPLICATION

Applications for the academic year 2021-22 are now **open**. Please, apply through the button below.

Apply

Please, do not name your files with special characters (e.g., &, *, etc). More information about the online application can be found in our FAQs.

IMPORTANT NOTICE: Prospective students who got admission in the previous 2 academic years but did not enroll can avoid re-applying and GET AUTOMATICALLY ADMISSION to the present academic year by writing an email to the Course Director Prof. A. Bononi (alberto.bononi@unipr.it) with the pdf of their admission letter. They will receive a new letter for the embassy, explaining the update.

Courses – First Year - 60CFU

communication-eng.unipr.it/index.php/academic-year-2021-2022

First Year

Compulsory (60%)

1st Semester	SSD	CFU		2nd Semester	SSD	CFU
Communication Fundamentals[1] (Info)	ING-INF/03	9		Detection and Estimation (Info)(Instructor)(course web site)	ING-INF/03	9
Network Performance (Info) (Instructor)(course web site)	ING-INF/03	6		Information Theory (Info) (Instructor)(course web site)	ING-INF/03	6
Antennas for Wireless Systems (Info)(Instructor)(course web site)	ING-INF/02	6		Network Security[1] (Info) (Instructor) (course web site)	ING-INF/03	9

Electives (40%)

Elective Complementary Courses[2] (pick >=12 CFU from ECC menu)   **Red Menu**

Elective Free Courses[3] (pick >=12 CFU from EFC menu)   Blue Menu

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Elective Complementary Courses

Elective Complementary Courses[2] – *(pick >=12 CFU)*

1st Semester	SSD	CFU	2nd Semester	SSD	CFU
Applied Acoustics (Info)(Instructor)(course web site)	ING-IND/11	6	Nonlinear Systems (Info) (Instructor)	ING-INF/04	6
Optical Networking (Info) (Instructor)(course web site)	ING-INF/03	6	Identification and Adaptive Systems (Info) (Instructor)	ING-INF/04	6
Project Management (Info) (Instructor)	ING-IND/17	6	High Performance Computing (Info) (Instructor)(course web site)	ING-INF/05	6
Power Circuits and Systems (Info) (Instructor)(course web site)	ING-INF/01	6			
Ricerca Operativa (Info) (Instructor)(course web site)	MAT/09	9			
ICT for Health and Well-being (Info) (Instructor)	ING-INF/01	6			
Advanced Programming of Mobile Systems (Info) (Instructor)	ING-INF/05	6			
Financial and Cost Management (Info) (Instructor)	ING-IND/35	9			
Machine Learning for Pattern Recognition...	ING-INF/05				
...Part 1 (Info part 1) (Instructor)(course web site)		3			
...Part 2 (Info part 2) (Instructor)		3			

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Elective Courses

Elective Free Courses[3] – (pick >=12 CFU)

1st semester	SSD	CFU	2nd semester	SSD	CFU
5G Wireless Networks (Info) (Instructor)	ING-INF/03	6	Internet of things (Info) (Instructor)(course web site)	ING-INF/03	6
			Advanced photonics (Info) (Instructor)(course web site)	ING-INF/02	6
			Network Information Theory (Info) (Instructor)	ING-INF/03	6

Lingua italiana per stranieri[4] – 3 CFU

Note: any 2 courses among those offered by UNIPR can be chosen in this second menu (those listed here are in the Telecom area and strongly suggested).

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DI PARMA

Courses – Second Year

Second Year

Compulsory (60%)

1st Semester	SSD	CFU		2nd Semester	SSD	CFU
Digital Communications (Info) (Instructor) (course web site)	ING-INF/03	9		Optical Communications (Info) (Instructor) (course web site)	ING-INF/03	9
Wireless Communications (Info) (Instructor) (course web site)	ING-INF/03	9		Photonic Devices (Info) (Instructor)(course web site)	ING-INF/02	9

Thesis (40%)

Thesis and Final Examination – 24 CFU

Notes

"Master of Science Degree" is also called "Second Cycle Degree". In Italian: "Laurea Magistrale". More info.

CFU = Number of ECTS credits (Crediti formativi universitari). More Info.

SSD = Course category (*Settore scientifico disciplinare*). More info.

This Second Cycle Degree course allows to obtain an Italian-French double degree within a Multilateral Cooperation Agreement between Italy and France.

Courses in italics are taught in Italian

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Thanks!

Main Contact:

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