Study plans

Master Degree in ICT for Internet and Multimedia

Prof. Marco Cagnazzo

Slides courtesy of prof. Simone Milani, updated by MC

WHAT, WHY, WHEN, HOW

- The study plan is the list of courses you have to pass in order to achieve your degree
- You have to submit a study plan before taking any exam **because you can only enroll exams that are already in your study plan**
- You can submit a study plan starting from Decembre (thus, before the first exam session)
  - You can update your SP later on, such that you can change the exams you have to pass
- The full process is performed via the *UniWeb* platform
  - The same you use to enroll to exams

COURSES AND EXAMS

- Courses and exams are sometimes used as synonyms, but they aren't

- Courses: the teaching activity: lessons, lab, practical…
  - No need of study plan to enroll / follow

- Exam: The formal verification of your knowledge via written and/or oral test
  - **Need of an approved study plan to enroll**
  - Very often (but not always), no need of following the course
  - If successful, the course is registered as passed (with a mark in the range 18/30 – 30/30, possibly with honors)
  - If unsuccessful, it can be taken again in future sessions, as soon as the course is in the study plan

STUDY PLAN: THE PROCESS

STUDY PLAN: THE PROCESS

September-November

- The student looks at the educational offer
- Decides the Curriculum and the Track
- Starts following courses
- Defines a preliminary Study Plan according to the rules we will see later on

STUDY PLAN: THE PROCESS

Starting from December:

- The student can submit her/his SP
  - The most important is to put in the SP the exams you want to give in the first semester, first year
  - However, the SP **must include all the semesters**
  - *But* you can update the SP later
    - E.g., before the summer exam session
- If the commission validates the SP, the student can enroll to exams
- If the SP is rejected, the commission suggests how to modify it to make it acceptable
  - Remember that you must have a **validated SP** before being able to enroll to an exam: so, do not wait for the last minute!

STUDY PLAN: THE PROCESS

From December to September

- Decide if you want to change your SP well in advance **and in any case at least 15 days before the exams**
- Submit a new SP following the rules and respecting the deadline
- If the new SP is approved, you can enroll to the exam
  - Otherwise, you must submit a new one, again at least 15 days before the exam… so if you have doubts, submit it as soon as possible!

ERROR TO AVOID

From: forgetful.student@studenti.unipd.it

To: busy.professor@unipd.it

Respected Professor,

I would like to take my Internet exam tomorrow, but I forgot to update my study plan: could you please accept my new study plan in the next three hours?

Forgetfully yours,
Forgetul Student

TAKE YOUR TIME AND … SAVE OUR TIME!

- Remember:
  - Think about your study plan well in advance
  - Be sure to understand the rules
  - Submit a study ASAP (but not before December)
  - **SP approval requests are processed every second week**: so, you should submit any request (including first submission and updates) at least two weeks before the last day you can enroll to the exams

STUDY PLAN: CAN I CHANGE IT?

- You can submit an update request of your SP **as many times as you want** from December to September
- But please, **use this power sparingly**!
  - Each request is additional workload for the commission

STUDY PLAN: PLAYERS

- The Student (you):
  - has to understand the rules of the study plan
  - decides the path, the track and the free exams according to the rules
  - submits the study plan
- The Commission (professors Cagnazzo and Giordani)
  - validates or rejects the SPs
  - if the SP is rejected, suggests how to modify it

STUDY PLAN: THE RULES

STUDY PLAN: THE RULES

First you must choose a curriculum and a track (indirizzo)

4 curricula – 2 tracks each

TELECOM

- Communications
- Smart Industry 4.0

CYBERSYSTEMS

- Internet & Security
- Multimedia & Digital Arts

PHOTONICS

- Photonics
- Quantum information

LIFE & HEALTH

- Medical ICT
- Machine Learning for healthcare

STUDY PLAN: THE RULES

Whatever the choice, you must achieve between 120 and 126 credits (CFU) divided as follows:

Name	Notes	Min	Max
Core (Caratterizzanti)	Telecom and Electromagnetism	45	69
Integrative (Affini o integrative) A11	Physics, Computer Science, Industrial Engineering, Electronics, Robotics, Mathematics	12	30
Integrative (Affini o integrative) A12	Law, Arts, Literature and Languages, Psychology, Economics	0	9
A11+A12		15	30
Elective	One (any) course from MIME (6 CFU), two courses (or 12 CFU) *fully elective*	18	18
Soft skills	One out of three courses	3	3

Mandatory subjects

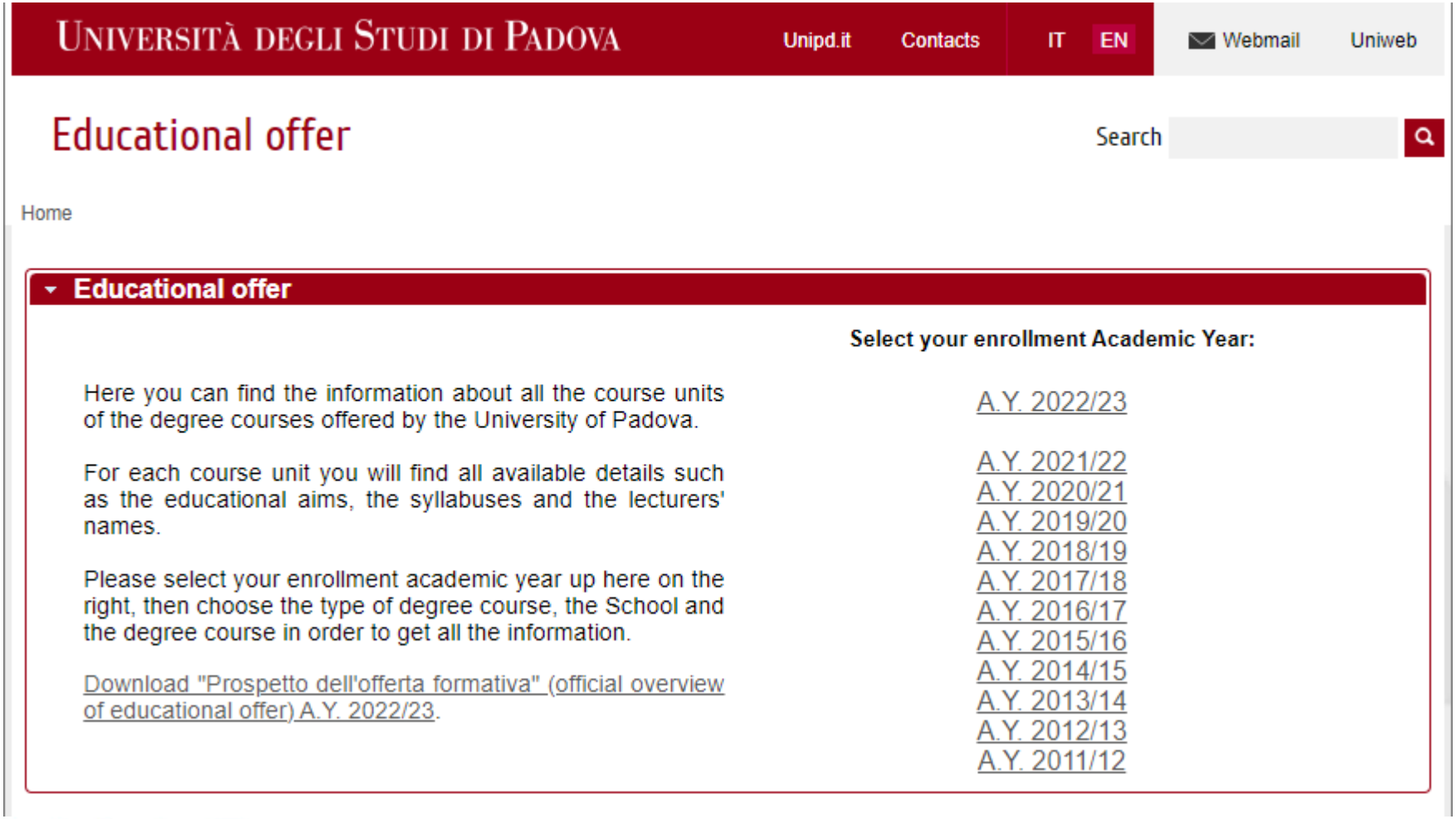
Curriculum	Common mandatory courses 6 + 6 = 12 CFU	Track (Indirizzo)	Track mandatory course 6 CFU
TELECOMMUNICATIONS (001PD)	**Telecom. Principles** Wireless Networks *mod. A* + Digital Comm. *mod. B*	COMMUNICATION TECHNOLOGIES	Stochastic Processes
		SMART INDUSTRY 4.0	Internet
CYBERSYSTEMS (002PD)	**Internet & Multimedia** = Internet *mod. A* + Computer Vision *mod. B*	INTERNET & SECURITY	Stochastic Processes
		MM & DIGITAL ARTS	Digital & Interactive MM
ICT FOR LIFE AND HEALTH (004PD)	**Digital Processing for L&H** = Digital Signal Processing *mod. A* + Machine Learning *mod. B*	MEDICAL ICT	E-Health
		MACHINE LEARNING FOR HEALTHCARE	Human Data Analytics
PHOTONICS AND QUANTUM ENGINEERING (006PD)	**Photonics Technologies** = Fiber Optics *mod. A* + Photonic Devices *mod. B*	PHOTONICS	Molecular Photonics
		QUANTUM INFORMATION	Quantum Information and Computing

STUDY PLAN: THE RULES

- Moreover:
- You have an internship + thesis (9+21 credits)
- English Language B2 (3 credits)

FIND OUT ALL THE RULES AND INFORMATION

Go to the website https://en.didattica.unipd.it/ and click on A.Y. 2023/24



FIND OUT ALL THE RULES AND INFORMATION

Click on Second cycle degree courses

FIND OUT ALL THE RULES AND INFORMATION

Click on School of Engineering

Click on ICT for Internet and Multimedia

Educational offer

Search

First cycle degree courses | **Second cycle degree courses** | Single cycle degree courses

School of Engineering

Select degree course:

Degree course code	Degree course name	Duration (years)	Class (Ministerial field of study code)	Language
IN0532 2020	BIOENGINEERING	2	LM-21	Italian
IN2646 2022	CHEMICAL AND PROCESS ENGINEERING	2	LM-22	English
IN2547 2020	COMPUTER ENGINEERING	2	LM-32	English
IN2546 2021	CONTROL SYSTEMS ENGINEERING	2	LM-25	English
IN2645 2022	ELECTRONIC ENGINEERING	2	LM-29	English
IN2595 2021	ENERGY ENGINEERING	2	LM-30	English
IN1825 2020	ENVIRONMENTAL ENGINEERING	2	LM-35	English
IN2371 2019	ICT FOR INTERNET AND MULTIMEDIA	2	LM-27	English

Master's degree ICT Internet Multimedia

Regulations: all the rules
Annex 1: General description

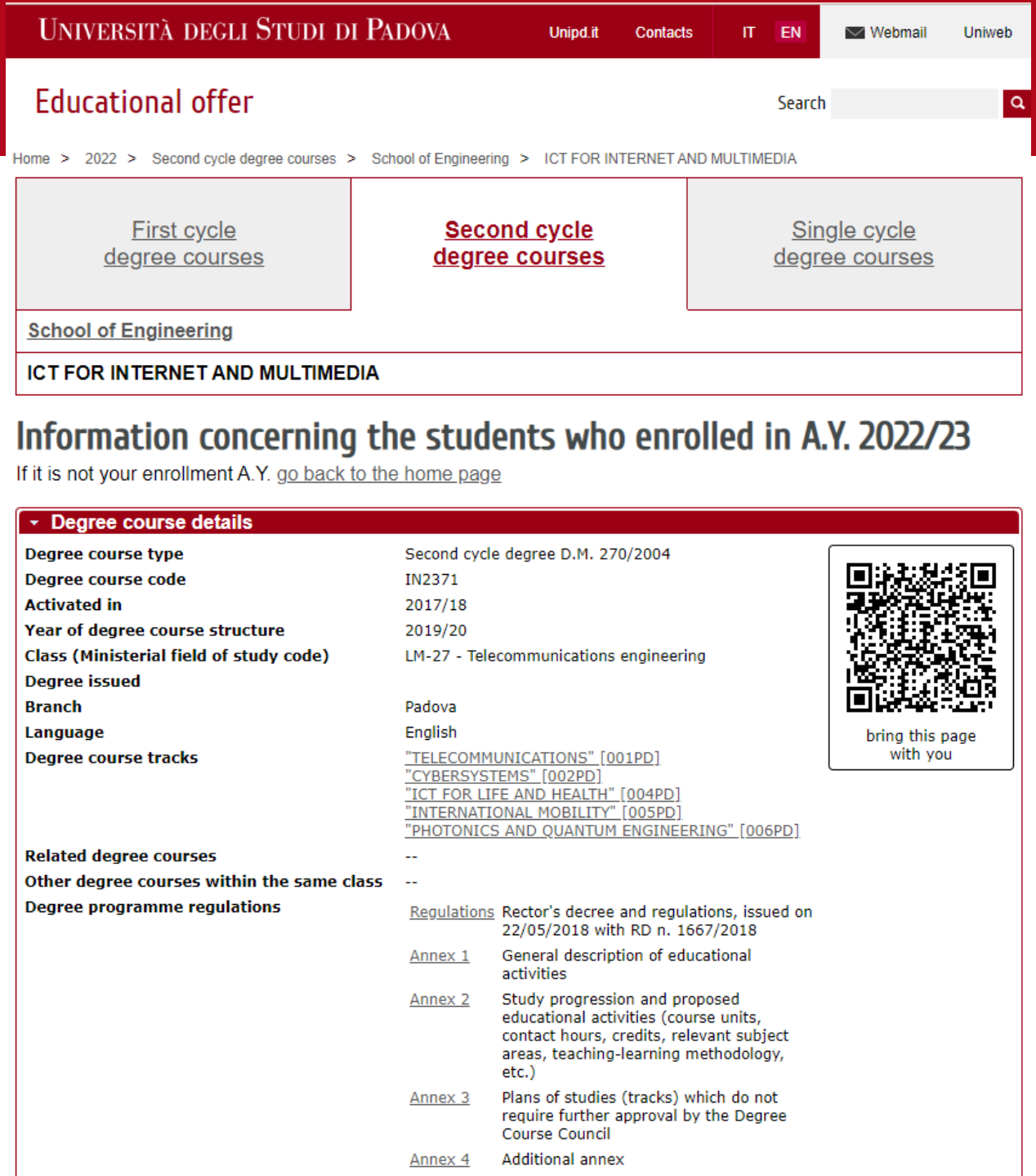
Annex 2: List of all courses

Annex 3: SP schemes

Annex 4: rules for the final degree

Most of those documents is in Italian

Master's degree ICT Internet Multimedia Engineering



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Educational offer

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First cycle degree courses | **Second cycle degree courses** | Single cycle degree courses

School of Engineering

ICT FOR INTERNET AND MULTIMEDIA

Information concerning the students who enrolled in A.Y. 2022/23

If it is not your enrollment A.Y. go back to the home page

Degree course details

Degree course type	Second cycle degree D.M. 270/2004
Degree course code	IN2371
Activated in	2017/18
Year of degree course structure	2019/20
Class (Ministerial field of study code)	LM-27 - Telecommunications engineering
Degree issued	
Branch	Padova
Language	English
Degree course tracks	"TELECOMMUNICATIONS" [001PD] "CYBERSYSTEMS" [002PD] "ICT FOR LIFE AND HEALTH" [004PD] "INTERNATIONAL MOBILITY" [005PD] "PHOTONICS AND QUANTUM ENGINEERING" [006PD]
Related degree courses	--
Other degree courses within the same class	--
Degree programme regulations	Regulations: Rector's decree and regulations, issued on 22/05/2018 with RD n. 1667/2018 Annex 1: General description of educational activities Annex 2: Study progression and proposed educational activities (course units, contact hours, credits, relevant subject areas, teaching-learning methodology, etc.) Annex 3: Plans of studies (tracks) which do not require further approval by the Degree Course Council Annex 4: Additional annex

bring this page with you

LIST OF ALL COURSES

COORTE 2022

Tipologia	Ambito	SSD	Codice	Curriculum	Insegnamento	CFU	ORE	Anno	Periodo	Att. Obblig.	Freq. Obblig.	Lingua	Valutaz.
CURRICULUM TELECOMMUNICATIONS (001PD)													
ALTRO	Ulteriori conoscenze linguistiche	--	INP9087943	COMUNE	ENGLISH LANGUAGE B2 (PRODUCTIVE SKILLS)	3	ALT: 75 ore	I	A1	SI	–	INGLESE	GIUDIZIO FINALE
ALTRO	Altre conoscenze utili per l'inserimento nel mondo del lavoro	--	INP9086683	COMUNE	PROJECT MANAGEMENT	3	LEZ: 24 ore	I	S1	NO	NO	INGLESE	GIUDIZIO FINALE
ALTRO	Altre conoscenze utili per l'inserimento nel mondo del lavoro	--	INP9086698	COMUNE	PUBLIC SPEAKING LAB	3	L: 24 ore	I	S1	NO	NO	INGLESE	GIUDIZIO FINALE
ALTRO	Altre conoscenze utili per l'inserimento nel mondo del lavoro	--	INQ0092598	COMUNE	PUBLIC VALUES IN MEDIA AND ICT	3	L: 21 ore	I	S1	NO	NO	INGLESE	GIUDIZIO FINALE
ALTRO	Tirocini formativi e di orientamento	--	INP9087862	001PD	INTERNSHIP	9	T: 225 ore	I	A1	NO	–	INGLESE	GIUDIZIO FINALE
ALTRO	Tirocini formativi e di orientamento	--	INQ0091098	001PD	RESEARCH TRAINING	9	T: 225 ore	I	A1	NO	–	INGLESE	GIUDIZIO FINALE
			INQ2100631	001PD	TELECOMMUNICATION PRINCIPLES (I.C.)	12		I	S1	SI	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INQ2100633	001PD	DIGITAL COMMUNICATIONS (MOD. B)	6	LEZ: 48 ore	I	S1	SI	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INQ2100632	001PD	WIRELESS NETWORKS (MOD. A)	6	LEZ: 48 ore	I	S1	SI	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9087844	001PD	COMPUTER VISION	6	LEZ: 48 ore	I	S1	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9086622	001PD	DIGITAL SIGNAL PROCESSING	6	LEZ: 48 ore	I	S1	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/02	INP9086742	001PD	FIBER OPTICS	6	LEZ: 48 ore	I	S1	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9087842	001PD	INTERNET OF THINGS AND SMART CITIES	6	LEZ: 48 ore	I	S1	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9086741	001PD	INTERNET	6	LEZ: 48 ore	I	S1	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9087775	001PD	MACHINE LEARNING	6	LEZ: 48 ore	I	S1	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/02	INQ2100741	001PD	MILLIMETER-WAVE DEVICES	6	LEZ: 48 ore	I	S1	NO	NO	INGLESE	VOTO FINALE

LIST OF ALL COURSES

CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9087863	001PD	OPTICAL AND QUANTUM COMMUNICATIONS	6	LEZ: 48 ore	I	S1	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9086878	001PD	PROGRAMMING FOR TELECOMMUNICATIONS	6	LEZ: 48 ore	I	S1	NO	NO	INGLESE	VOTO FINALE
AFFINE/INTEGRATIVA	Attività formative affini o integrative	MAT/09	INQ0091320	001PD	CONVEX OPTIMIZATION	6	LEZ: 48 ore	I	S1	NO	NO	INGLESE	VOTO FINALE
AFFINE/INTEGRATIVA	Attività formative affini o integrative	MAT/09	INQ2100739	001PD	OPTIMIZATION METHODS FOR ICT	6	LEZ: 48 ore	I	S1	NO	NO	INGLESE	VOTO FINALE
AFFINE/INTEGRATIVA	Attività formative affini o integrative	FIS/01	INQ2100742	001PD	SCIENTIFIC COMPUTING WITH PYTHON	6	LEZ: 48 ore	I	S1	NO	NO	INGLESE	VOTO FINALE
AFFINE/INTEGRATIVA	Attività formative affini o integrative	ING-INF/07	INQ2100740	001PD	SENSING AND MEASUREMENT SYSTEMS	6	LEZ: 48 ore	I	S1	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/02	INP9086718	001PD	ANTENNAS	6	LEZ: 48 ore	I	S2	NO	NO	INGLESE	VOTO FINALE
AFFINE/INTEGRATIVA, CARATTERIZZANTE	Attività formative affini o integrative, Ingegneria delle telecomunicazioni	ING-INF/03 (CFU 4.0), IUS/16 (CFU 2.0)	INP8084209	001PD	DIGITAL FORENSICS	6	LEZ: 48 ore	I	S2	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INQ1097946	001PD	ICT FOR INDUSTRIAL APPLICATIONS	6	LEZ: 48 ore	I	S2	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/02	INP9086802	001PD	OPTICAL NETWORKS	6	LEZ: 48 ore	I	S2	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INQ1098071	001PD	SATELLITE COMMUNICATION SYSTEMS	6	LEZ: 48 ore	I	S2	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9086676	001PD	STOCHASTIC PROCESSES	6	LEZ: 48 ore	I	S2	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/02 (CFU 3.0), ING-INF/03 (CFU 3.0)	INQ1098073	001PD	VISIBLE-LIGHT AND METASURFACES COMMUNICATIONS	6	LEZ: 48 ore	I	S2	NO	NO	INGLESE	VOTO FINALE
AFFINE/INTEGRATIVA	Attività formative affini o integrative	ING-INF/04	INQ0091321	001PD	EMBEDDED REAL-TIME CONTROL	6	LEZ: 48 ore	I	S2	NO	NO	INGLESE	VOTO FINALE
AFFINE/INTEGRATIVA	Attività formative affini o integrative	ING-INF/01	INQ1097945	001PD	ICT FOR AUTOMOTIVE AND DOMOTICS	6	LEZ: 48 ore	I	S2	NO	NO	INGLESE	VOTO FINALE
AFFINE/INTEGRATIVA	Attività formative affini o integrative	ING-INF/04	INQ1097947	001PD	ICT ROBOTICS	6	LEZ: 48 ore	I	S2	NO	NO	INGLESE	VOTO FINALE
AFFINE/INTEGRATIVA	Attività formative affini o integrative	FIS/03	INP9086478	001PD	QUANTUM INFORMATION AND COMPUTING	6	LEZ: 48 ore	I	S2	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9087828	001PD	5G SYSTEMS	6	LEZ: 48 ore	II	S1	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INQ0090838	001PD	INFORMATION THEORY	6	LEZ: 48 ore	II	S1	NO	NO	INGLESE	VOTO FINALE
AFFINE/INTEGRATIVA	Attività formative affini o integrative	FIS/01	INP9086805	001PD	PROGRAMMABLE HARDWARE DEVICES	6	LEZ: 48 ore	II	S1	NO	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9086688	001PD	COMMUNICATION NETWORK DESIGN	6	LEZ: 48 ore	II	S2	NO	NO	INGLESE	VOTO FINALE
AFFINE/INTEGRATIVA	Attività formative affini o integrative	ING-INF/04	INQ1098492	001PD	INDUSTRIAL COMMUNICATIONS	6	LEZ: 48 ore	II	S2	NO	NO	INGLESE	VOTO FINALE
LINGUA/PROVA FINALE	Per la prova finale	PROFIN_S	INP9087846	001PD	FINAL PROJECT	21	PRF: 525 ore	I	A1	SI	–	INGLESE	GIUDIZIO FINALE

CURRICULUM CYBERSYSTEMS (002PD)

SAMPLE STUDY PLAN

In order to simplify the process, we propose some simplified rules which are a bit less general, but guarantee SP approval

Even in this case the SP must be submitted!!!

CURRICULUM TELECOMMUNICATIONS (001PD)

Indirizzo: Communication Technologies

Tipologia	Ambito	SSD	Codice	Insegnamento	CFU	ORE	Anno	Periodo	Freq. Obblig.	Lingua	Valutaz.
INSEGNAMENTI OBBLIGATORI											
			ING2100631	TELECOMMUNICATION PRINCIPLES (I.C.)	12		I	S1	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	ING2100632	WIRELESS NETWORKS (MOD. A)	6	LEZ: 48 ore	I	S1	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	ING2100633	DIGITAL COMMUNICATIONS (MOD. B)	6	LEZ: 48 ore	I	S1	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9086676	STOCHASTIC PROCESSES	6	LEZ: 48 ore	I	S2	NO	INGLESE	VOTO FINALE
5 INSEGNAMENTI A SCELTA TRA I SEGUENTI											
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9086622	DIGITAL SIGNAL PROCESSING	6	LEZ: 48 ore	I	S1	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/02	INP9086742	FIBER OPTICS	6	LEZ: 48 ore	I	S1	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9086741	INTERNET	6	LEZ: 48 ore	I	S1	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9087775	MACHINE LEARNING	6	LEZ: 48 ore	I	S1	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/02	ING2100741	MILLIMETER-WAVE DEVICES	6	LEZ: 48 ore	I	S1	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9086818	MULTIMEDIA CODING	6	LEZ: 48 ore	I	S1	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9087863	OPTICAL AND QUANTUM COMMUNICATIONS	6	LEZ: 48 ore	I	S1	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9086878	PROGRAMMING FOR TELECOMMUNICATIONS	6	LEZ: 48 ore	I	S1	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/02	INP9086718	ANTENNAS	6	LEZ: 48 ore	I	S2	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/02	INP9086802	OPTICAL NETWORKS	6	LEZ: 48 ore	I	S2	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	ING1098071	SATELLITE COMMUNICATION SYSTEMS	6	LEZ: 48 ore	I	S2	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/02 (CFU 3.0), ING-INF/03 (CFU 3.0)	ING1098073	VISIBLE-LIGHT AND METASURFACES COMMUNICATIONS	6	LEZ: 48 ore	I	S2	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	INP9087828	5G SYSTEMS	6	LEZ: 48 ore	II	S1	NO	INGLESE	VOTO FINALE
CARATTERIZZANTE	Ingegneria delle telecomunicazioni	ING-INF/03	ING0090838	INFORMATION THEORY	6	LEZ: 48 ore	II	S1	NO	INGLESE	VOTO FINALE
3 INSEGNAMENTI A SCELTA TRA I SEGUENTI											
AFFINE/INTEGRATIVA	Attività formative affini o integrative	MAT/09	ING0091320	CONVEX OPTIMIZATION	6	LEZ: 48 ore	I	S1	NO	INGLESE	VOTO FINALE
AFFINE/INTEGRATIVA	Attività formative affini o integrative	FIS/01	ING2100742	SCIENTIFIC COMPUTING WITH PYTHON	6	LEZ: 48 ore	I	S1	NO	INGLESE	VOTO FINALE
AFFINE/INTEGRATIVA	Attività formative affini o integrative	FIS/03	INP9086478	QUANTUM INFORMATION AND COMPUTING	6	LEZ: 48 ore	I	S2	NO	INGLESE	VOTO FINALE
AFFINE/INTEGRATIVA	Attività formative affini o integrative	FIS/01	INP9086805	PROGRAMMABLE HARDWARE DEVICES	6	LEZ: 48 ore	II	S1	NO	INGLESE	VOTO FINALE
UN INSEGNAMENTO TRA QUELLI OFFERTI DAL CORSO DI STUDIO (non ancora inseriti nel piano di studio)											
12 CFU A SCELTA LIBERA (non ancora inseriti nel piano di studio)											
UN INSEGNAMENTO A SCELTA TRA I SEGUENTI											
ALTRO	Altre conoscenze utili per l'inserimento nel mondo del lavoro	–	INP9086683	PROJECT MANAGEMENT	3	LEZ: 24 ore	I	S1	NO	INGLESE	GIUDIZIO FINALE
ALTRO	Altre conoscenze utili per l'inserimento nel mondo del lavoro	–	INP9086698	PUBLIC SPEAKING LAB (*)	3	L: 24 ore	I	S1	NO	INGLESE	GIUDIZIO FINALE
ALTRO	Altre conoscenze utili per l'inserimento nel mondo del lavoro	–	ING0092598	PUBLIC VALUES IN MEDIA AND ICT	3	L: 21 ore	I	S1	NO	INGLESE	GIUDIZIO FINALE
UNA ATTIVITA' A SCELTA TRA LE SEGUENTI											
ALTRO	Tirocini formativi e di orientamento	–	INP9087862	INTERNSHIP	9	T: 225 ore	I	A1	–	INGLESE	GIUDIZIO FINALE
ALTRO	Tirocini formativi e di orientamento	–	ING0091098	RESEARCH TRAINING	9	T: 225 ore	I	A1	–	INGLESE	GIUDIZIO

MIME
Master's degree ICT Internet Multimedia Engineering

About 12 CFU courses

- When you select a 12 CFU course … you are automatically enrolled into mod. A and B
- You can select them separately (as individual courses). **Not** recommended unless …
  - You are planning to acknowledge one of the subjects
  - You are taking the two subjects on separate years
  - You are attending Cybersystems and come from Bachelor degree in Computer Engineering (Triennale in Ingegneria Informatica)

You must replace Found. of DB with another exam

Note that

There are some thresholds to be respected

Total amount of credits: min 120 max 126.

- Min. 45 max 69 CFUs core credits
- Min. 15 max 30 CFU integrative credits. → Max. 9 for non STEM subjects
- Min. 9 max. 15 CFUs elective credits
- 1 mandatory soft skill (3 CFU)

Freedom to choose … with a few bounds

- You can select a subject from another course track (even the mandatory one)

- You can select exams from other master degree or departments … but they must be compatible with the degree **and there must not be an equivalent in ICT (or at DEI)**
  - **Eg., you cannot take a Machine Learning course from another department (Physics, Math, etc.) since there is a ML course within MIME!**

- Time schedule superposition can not be granted across different course tracks or master degrees …

Elective courses

Use this option with attention!

- The fact that the course has an integrative label does not make it automatically eligible. -> **the final decision is made by the Commission**
- If there is an analogous course available at DEI, you must take that one
- The study plan must make sense: courses must be compliant with ICT programs
- Also check this out: Some courses have a double labelling (CORE + INTEGRATIVE)

This affects the final counting.

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TELECOMMUNICATIONS

Track: Communication Technologies

Mandatory	Digital Communications
	Wireless Networks
	Stochastic Processes
Choose 5	5G Systems
	Antennas
	Digital Signal Processing
	Fiber Optics
	Information Theory
	Internet
	Machine Learning
	Millimeter-wave devices
	Multimedia Coding
	Optical and Quantum Communications
	Optical Networks
	Satellite Communication Systems
	Visible-light and Metasurfaces Communications
Choose 3	Convex Optimization
	Programmable Hardware Devices
	Programming for Telecommunications
	Quantum Information and Computing
	Scientific Computing with Python
	One additional course (6)
	Fully elective credits (12)
	Final Project
	English B2
Choose 1	Project Management
	Public Speaking Lab
	Public Values in Media and ICT
Choose 1	Internship
	Research Training

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TELECOMMUNICATIONS

Track: Smart Industry 4.0

Mandatory	Digital Communications
	Wireless Networks
	Internet
Choose 5	5G Systems
	Antennas
	Communication Network Design
	Computer Vision
	Digital Forensics
	Digital Signal Processing
	ICT for Industrial Applications
	Internet of Things and Smart Cities
	Machine Learning
	Stochastic Processes
	Visible-light and Metasurfaces Communications
Choose 3	Embedded Real-time Control
	ICT for Automotive and Domotics
	ICT Robotics
	Industrial Communications
	Optimization Methods for ICT
	Programmable Hardware Devices
	Programming for Telecommunications
	Sensing and Measurement Systems
	One additional course (6)
	Fully elective credits (12)
	Final Project
	English B2
Choose 1	Project Management
	Public Speaking Lab
	Public Values in Media and ICT
Choose 1	Internship
	Research Training

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CYBERSYSTEMS

Track: Internet & Security

Mandatory	Internet
	Computer vision
	Stochastic processes
Choose 5	Communication Network Design
	Digital Forensics
	Digital Signal Processing
	Game Theory
	ICT for Industrial Applications
	Information Security
	Internet of Things and Smart Cities
	Machine Learning
	Network Analysis and Simulation
	Network Coding
	Network Science
	Neural Networks and Deep Learning
	Wireless Networks
Choose 3	Big Data Computing
	Cryptography
	Foundations of Databases
	Optimization Methods for ICT
	Reinforcement Learning
	Scientific Computing with Python
	Web Applications
	One additional course (6)
	Fully elective credits (12)
	Final Project
	English B2
Choose 1	Project Management
	Public Speaking Lab
	Public Values in Media and ICT
Choose 1	Internship
	Research Training

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CYBERSYSTEMS

Track: Multimedia & Digital Arts

Mandatory	Internet
	Computer vision
	Digital and Interactive Multimedia
Choose 5	3D Augmented Reality
	Digital Forensics
	Digital Signal Processing
	Game Theory
	Information Theory
	Internet of Things and Smart Cities
	Machine Learning
	Multimedia Coding
	Network Analysis and Simulation
	Network Science
	Neural Networks and Deep Learning
	Video Communication and User Experience
Choose 3	Computer Engineering for Music and Multimedia
	Digital Storytelling
	History of Animation
	Human Computer Interaction
	Natural Language Processing
	Reinforcement Learning
	One additional course (6)
	Fully elective credits (12)
	Final Project
	English B2
Choose 1	Project Management
	Public Speaking Lab
	Public Values in Media and ICT
Choose 1	Internship
	Research Training

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PHOTONICS & QUANTUM

Track: Photonics

Mandatory	Fiber Optics
	Photonic Devices
	Molecular Photonics
Choose 6	Antennas
	Biophotonics
	Digital Communications
	Digital Signal Processing
	Internet
	Millimeter-wave Devices
	Nanophotonics
	Optical and Quantum Communications
	Optical Networks
	Satellite Communication Systems
	Visible-light and Metasurfaces Communications
Choose 2	Nanostructured Materials
	Optoelectronics for Green Technologies
	Photovoltaic Science and Technology
	Programmable Hardware Devices
	Quantum Information and Computing
	One additional course (6)
	Fully elective credits (12)
	Final Project
	English B2
Choose 1	Project Management
	Public Speaking Lab
	Public Values in Media and ICT
Choose 1	Internship
	Research Training

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PHOTONICS & QUANTUM

Track: Quantum Information

Mandatory	Fiber Optics
	Photonic Devices
	Quantum Information and Computing
Choose 6	Biophotonics
	Digital Signal Processing
	Internet
	Machine Learning
	Nanophotonics
	Optical and Quantum Communications
	Optical Networks
Choose 2	Quantum Cryptography and Security
	Satellite Communication Systems
	Optoelectronics for Green Technologies
	Molecular Photonics
	Quantum Methods for ICT
	Quantum Optics and Lasers
Choose 1	Quantum Technologies
	One additional course (6)
	Fully elective credits (12)
	Final Project
	English B2
Choose 1	Project Management
	Public Speaking Lab
	Public Values in Media and ICT
Choose 1	Internship
	Research Training

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ICT FOR LIFE & HEALTH

Track: Medical ICT

Mandatory	Digital Signal Processing
	Machine Learning
	e-Health
Choose 5	3D Augmented Reality
	Biophotonics
	Life Data Epidemiology
	Multimedia Coding
	Human Data Analytics
	Network Science
	Neural Networks and Deep Learning
	Secure Digital Healthcare
	Video Communication and User Experience
Choose 3	Biomedical Wearable Technologies for healthcare and Wellbeing
	Computational Genomics
	Molecular Photonics
	Neuroimaging
	Neurorobotics and Neurorehabilitation
	Precision Medicine
	Scientific Computing with Python
	Sensing and Measurement Systems
	Sports Engineering and Rehabilitation Devices
	One additional course (6)
	Fully elective credits (12)
	Final Project
	English B2
Choose 1	Project Management
	Public Speaking Lab
	Public Values in Media and ICT
Choose 1	Internship
	Research Training

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ICT FOR LIFE & HEALTH

Track: ML for healthcare

Mandatory	Digital Signal Processing
	Machine Learning
	Human Data Analytics
Choose 5	3D Augmented Reality
	Biological Data
	Biometrics
	Computer Vision
	e-Health
	Game Theory
	Life Data Epidemiology
	Neural Networks and Deep Learning
	Stochastic Processes
Choose 3	Convex Optimization
	Human Computer Interaction
	Natural Language Processing
	Neuroimaging
	Physical Models of Living Systems
	Precision Medicine
	Reinforcement Learning
	Scientific Computing with Python
	Sensing and Measurement Systems
	One additional course (6)
	Fully elective credits (12)
	Final Project
	English B2
Choose 1	Project Management
	Public Speaking Lab
	Public Values in Media and ICT
Choose 1	Internship
	Research Training

Common errors

- Total number of credits outside range 120-126.
- Not enough core credits (<45): pay attention to the label of courses.
- Including courses outside the department and not pertinent to ICT.
- Including courses that have an equivalent in ICT or overlaps with other exams in study plan.

Examples of rejection

The course STORIA DEL FILM E VIDEO D'ARTISTA and STORIA MODERNA can not be included in the Study plan.
The course MOBILE PROGRAMMING E MULTIMEDIA presents several overlappings with Computer Vision and Multimedia Coding. It must be replaced with another course

The course is not compatible with ICT study plan.

Mandatory exams FOUNDATION OF DATABASE and NETWORK SCIENCE are missing.

Mandatory exams were not included.

There are superpositions between LEARNING FROM NETWORKS and NETWORK SCIENCE. Please replace LEARNING FROM NETWORKS with another subject.

Overlaps are present.

The study plan includes 114 CFUs, while the minimum allowed amount is 120 (126 at max). Please add one exam. /. Your plan cannot be approved because it includes 132 ECTS, while the maximum is 126.

Not enough/too many subjects.

Acknowledgement of past activities

- If you already have a Master degree *or a 4-years Bachelor degree* it is possible to acknowledge some of your past activities
- request evaluated by a Commission

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