**Percorso Ingegneria dell'Informazione e delle Comunicazioni - Information and Communication Engineering**

### Mandatory courses

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(*) 145641 Technical English - Foreign students admitted through an international selection who are not able to attest the knowledge of the Italian language, at least at the level A1 CEF (Common European Framework of reference for languages), must replace this course with the Italian Language course (140189 - Italian Language) offered at the University Language Center (CLA). This rule does not apply to Double Degree students.

### Depth requirement

**Scegliere una Area /Choose one area**

**Area Signal Processing and Understanding (SPU)**

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**Corsi affini a scelta vincolata/“Affini” courses**

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**Area Wireless and Networking (WN)**

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### Corsi affini a scelta vincolata/“Affini” courses

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### Free-choice courses (see list below 1. Corsi a scelta/Free choice courses)

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#### Total

**TOT 120**

### 1. Corsi a scelta/Free choice courses

Selezione 18 crediti scelti liberamente fra gli insegnamenti offerti dall'Università di Trento. Oltre alla lista dei corsi opzionali successiva, possono essere scelti tutti gli insegnamenti del Manifesto. Tali insegnamenti sono approvati automaticamente; in tutti gli altri casi, è necessaria la compilazione di un piano di studio cartaceo che sarà valutato dall'apposita commissione.

Select 18 free-choice credits among the courses offered by the University of Trento. Besides the courses listed below, any other courses of the Manifesto can be chosen. Those courses are automatically approved. In all other cases, a personalized study plan must be completed and submitted to the commission for study plan examination.

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(*) 145636 Business Development Laboratory - In via sperimentale nell'ambito del progetto per il miglioramento della qualità ed interdisciplinarietà dei corsi di Innovation & Entrepreneurship di EIT Digital il corso sarà allineato per 8 CFU con il corso di Start-Up Lab presso il DEM e per 1 CFU mediante l'offerta I&E On-Line di EIT Digital.

As part of the project for the improvement of the quality and interdisciplinary nature of the EIT Digital Innovation & Entrepreneurship courses, the course will be aligned for 8 CFU with the Start-Up Lab course at the DEM and for 1 CFU through the I&E On-Line offer of EIT Digital.

(**) 145065 Network Security - Per allineare i contenuti avanzati con i corsi ET Digital del I anno, si raccomanda di seguire questi corsi solo agli studenti che abbiano già frequentato il corso di Introduction to Computer e Network security, e preferibilmente anche Cryptography e Security Testing (o corsi alternativi a seconda del proprio percorso od ateneo).

To align advanced contents with 1st year ET Digital courses, it is recommended to follow these courses only for students who have already attended the course of Introduction to Computer and Network security, and preferably also Cryptography and Security Testing (or alternative courses depending on of their own path or university).

(***) 145764 Deep Learning - It is required as a prerequisite: 145461 - Recognition Systems

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**Norme Transitorie / Provisional Equivalences**

La seguente tabella riporta le equipollenze con i corsi non più attivi del precedente manifesto.

**Esame Precedente / Previous Course**
- 145936 Innovation and Entrepreneurship Basic - 6
- 145620 Business in ICT - 9

**Esame Corrispondente / Equivalent Course**
- 145761 Innovation and Business in ICT - 6
- 145455 ICT Innovation - 9

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**Percorso ICT Innovation**

**Specialization area: Cloud and Networking Infrastructures (1° year LM / Entry Point EIT)**

<table>
<thead>
<tr>
<th>Innovation and Entrepreneurship</th>
<th>SECS-P/10</th>
<th>6</th>
<th>Affine/A12</th>
<th>1</th>
<th>1</th>
<th>24</th>
<th>Angeli</th>
<th>Lorenzo</th>
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<tbody>
<tr>
<td>145936 Innovation and Entrepreneurship Basic</td>
<td>SECS-P/10</td>
<td>6</td>
<td>Affine/A12</td>
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<td>2</td>
<td>*</td>
<td>Formentini</td>
<td>Marco</td>
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<tr>
<td>145288 Business Development Laboratory</td>
<td>SECS-P/10</td>
<td>9</td>
<td>Affine/A12</td>
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<td>2</td>
<td>**</td>
<td>Donelli</td>
<td>Massimo</td>
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<tr>
<td>145455 ICT Innovation</td>
<td>ING-INF/02</td>
<td>9</td>
<td>Car.</td>
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</table>

Approved by the Information Engineering and Computer Science Department Council of 16 February 2022
Foreign students admitted through an international selection who are not able to attest the knowledge of the Italian language, at least at the level A1 CEF (Common European Framework of reference for languages), must include as a supernumerary the Italian Language course (140189 - Italian Language) offered at the University Language Center (CLA). This rule does not apply to EIT and Double Degree students.

(*) 145288 Business Development Laboratory - In via sperimentale nell’ambito del progetto per il miglioramento della qualità ed interdisciplinarietà dei corsi di Innovation & Entrepreneurship (I&E) di EIT Digital il corso sarà allineato per 8 CFU con il corso di Start-Up Lab presso il DEM e per 1 CFU mediante l’offerta I&E On-Line di EIT Digital.

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(**) 145455 ICT Innovation - Il corso include obbligatoriamente per gli studenti in doppia laurea EIT Digital il risultato della Summer School EIT Digital. Gli studenti non in doppia laurea EIT Digital e che non avessero partecipato alla Summer School compenseranno i crediti relativi con opportune attività in tema di I&E inclusa possibilmente la partecipazione alle attività I&E Improvement per il miglioramento della qualità.

The course includes the EIT Digital Summer School result for students in double EIT Digital degrees. Students who are not in the double EIT Digital program and who have not attended the Summer School will compensate the relative credits with appropriate I&E activities including the possible participation in I&E Improvement activities for quality improvement.

<table>
<thead>
<tr>
<th>Mandatory Technical courses</th>
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<tbody>
<tr>
<td>146069 Next Generation Networks</td>
<td>ING-INF/03</td>
<td>6</td>
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<tr>
<td>146084 Softwarized and Virtualized Mobile Networks</td>
<td>ING-INF/03</td>
<td>9</td>
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<tr>
<td>146087 Network modeling and design</td>
<td>ING-INF/03</td>
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<tr>
<td>145771 Fog and Cloud Computing</td>
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<table>
<thead>
<tr>
<th>Specialty area: Cloud and Networking Infrastructures / Internet Technology and Architecture (2nd year LM / Exit Point EIT)</th>
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<tbody>
<tr>
<td>Corsi Obbligatori/Mandatory Courses</td>
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<tr>
<td>145623 Innovation and Entrepreneurship Studies in ICT</td>
<td>ING-INF/05</td>
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<td>145289 Research Project</td>
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<td>145301 Project Course</td>
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<table>
<thead>
<tr>
<th>Corsi a scelta/Free choice: gli studenti Exit point EIT faranno 6 CFU, gli studenti Unitrento faranno 12 CFU</th>
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<tbody>
<tr>
<td>145972 High Performance Computing for Data Science</td>
<td>ING-INF/05</td>
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<td>146083 Mobile and Satellite communications</td>
<td>ING-INF/02</td>
<td>6</td>
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<tr>
<td>145065 Network Security</td>
<td>ING-INF/05</td>
<td>6</td>
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<tr>
<td>155020 Multisensory Interactive Systems</td>
<td>ING-INF/05</td>
<td>6</td>
</tr>
<tr>
<td>145447 Advanced Computing Architectures</td>
<td>ING-INF/01</td>
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<tr>
<td>145462 Simulation and Performance Evaluation</td>
<td>ING-INF/03</td>
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</tbody>
</table>

(**) 145065 Network Security - Per allineare i contenuti avanzati con i corsi ET Digital del I anno, si raccomanda di seguire questi corsi solo agli studenti che abbiano già frequentato il corso di Introduction to Computer e Network security, e preferibilmente anche Cryptography e Security Testing (o corsi alternativi a seconda del proprio percorso od ateneo).

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** 145670 Tesi / thesis | 15
** 145665 Tirocini formativi e di orientamento / internship | 6
** 145671 Altre conoscenze utili per il mondo del lavoro / other work-related knowledge | 9

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<table>
<thead>
<tr>
<th>AD</th>
<th>CORSO COURSES</th>
<th>SSD ACADEMIC DISCIPLINE</th>
<th>CFU CREDITS</th>
<th>TAF TRAINING ACTIVITY</th>
<th>ANNO YEAR</th>
<th>SEMESTRE SEMESTER</th>
<th>CREDITI DA SCEGLIERE CREDITS TO CHOOSE</th>
<th>NOTE NOTES</th>
<th>Docente TITOLARE COGNOME PROFESSOR</th>
<th>Docente TITOLARE NOME</th>
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<td>Safety courses</td>
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Safety courses
The on-line courses “Health and Safety in the workplace General Risk training” (4 hours) and “Health and Safety in the workplace Specific risk training (Low Risk)” (4 hours) are mandatory for all the students attending courses held in computer and/or teaching labs. The courses are available through Didattica online.

Some of the courses may have additional requirements in terms of knowledge on the safety regulations. Such requirements are explicitly mentioned in the Syllabus of the courses and can be covered through specific safety courses (medium risk) offered by the University.