

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

AD Code ESSE3	CORSO	COURSES	SSD ACADEMIC DISCIPLINE	CFU CREDITS	TAF TRAINING ACTIVITY	ANNO YEAR	SEMESTRE SEMESTER	CREDITI DA SCEGLIERE CREDITS TO CHOOSE	TE NOTES	Docente TITOLARE COGNOME PROFESSOR	Docente TITOLARE NOME
Percorso Scienze e Tecnologie Informatiche - Computer Science and Technologies											
Mandatory courses								12			
145451		Computability and computational complexity	INF/01	6	Car.	1	1			Calautti	Marco
145761		Innovation and Business in ICT	SECS-P/10	6	Affine	1	1			Iubatti	Daniela
Foundation of Computer Science								12			
145617		Distributed systems 1	ING-INF/05	6	Car.	1	2			Picco	Gian Pietro
145062		Machine learning	INF/01	6	Car.	1	1			Passerini	Andrea
145810		Service Design and Engineering	ING-INF/05	6	Car.	1	1			Marchese	Maurizio
Complements of Communication and Electronic Engineering								6			
145462		Simulation and performance evaluation	ING-INF/03	6	Affine	1	2			Casari	Paolo
145612		Advanced remote sensing systems	ING-INF/03	6	Affine	(1)-2	1			Bruzzone	Lorenzo
140266		Computer Vision	ING-INF/03	6	Affine	1	2		*	Conci	Nicola
145614		Multimedia Data Security	ING-INF/03	6	Affine	(1)-2	1		*	Boato	Giulia
145807		Softwarized and virtualized mobile network	ING-INF/03	6	Affine	(1)-2	1			Granelli	Fabrizio
145851		Advanced computing architectures	ING-INF/01	6	Affine	1-(2)	1			Passerone	Roberto
(*) 140266 Computer Vision /145614 Multimedia Data Security - Si consiglia la scelta di Signal, Image and Video come prerequisito./ It is recommended as a prerequisite to attend Signal, Image and Video.											
Depth requirement								18			
Scegliere una Area /Choose one area											
<i>Area Computational Foundations</i>											
145056		Formal methods	ING-INF/05	12	Car.	1	2			Sebastiani	Roberto
145919		Knowledge and Data Integration	ING-INF/05	6	Car.	1-(2)	1			Giunchiglia	Fausto
145618		Distributed systems 2	INF/01	6	Car.	2	1		*	Montesor	Alberto
145300		Concurrency	INF/01	6	Car.	1	1			Quaglia	Paola

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

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145865	Optimization techniques		INF/01	6	Car.	1	2		**	Tace nel 2021-22	
145763	Bio-Inspired Artificial Intelligence		ING-INF/05	6	Car.	1	2			Iacca	Giovanni
145585	Quantum Machine Learning		ING-INF/05	6	Car.	(1)-2	1			Pastorello	Davide
145586	Game Theory		ING-INF/05	6	Car.	1	2			Kuper	Gabriel
<p>(*) 145618 - Per allineare i contenuti avanzati con i corsi EIT Digital del II anno si raccomanda di seguire questo corso solo agli studenti che abbiano già frequentato i corsi di "Distributed Systems 1" presso UNITN oppure "Distributed System" presso UTWENTE (o corsi alternativi a seconda del proprio percorso od ateneo)./ To align advanced contents with EIT Digital II year courses, students are recommended to take this course only if they have already attended "Distributed Systems 1" courses at UNITN or "Distributed System" at UTWENTE (or alternative courses depending on their studies or university).</p>											
<p>(**) Tace nel 21-22. The course is not activated in 21-22</p>											
<i>Area Data Science</i>											
145453	Data Mining		ING-INF/05	6	Car.	1-(2)	1			Velegrakis	Yannis
145919	Knowledge and Data Integration		ING-INF/05	6	Car.	1-(2)	1			Giunchiglia	Fausto
145764	Deep learning		ING-INF/05	6	Car.	1	2		*	Ricci	Elisa
145864	Human Machine Dialogue		ING-INF/05	6	Car.	(1)-2	1		*	Riccardi	Giuseppe
145084	Spatial Databases		INF/01	6	Car.	1-2	1		**	Kuper	Gabriel
145520	Affective computing		ING-INF/05	6	Car.	2	1			Sebe	Niculae
145683	Data Visualization Lab		INF/01	6	Car.	1	2			Jurman	Giuseppe
145972	High-Performance Computing for Data Science		ING-INF/05	6	Car.	1-(2)	1			Fiore	Sandro
<p>(*) 145764 Deep Learning - It is required as a prerequisite: 145062 - Machine learning or 145461 - Recognition Systems</p>											
<p>(**) 145084 Spatial Databases - Tace a.a. 2022-23</p>											
<i>Area Bioinformatics</i>											
145919	Knowledge and Data Integration		ING-INF/05	6	Car.	1-(2)	1			Giunchiglia	Fausto
145053	Laboratory of Biological Data Mining		ING-INF/05	6	Car.	(1)-2	1			Blanzieri	Enrico
145635	High-Throughput Sequencing Data Analysis		INF/01	6	Car.	1	2			Segata	Nicola

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

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145765	Algorithms for Bioinformatics		ING-INF/05	6	Car.	1	2			Blanzieri	Enrico
145767	Bioinformatics Resources		INF/01	6	Car.	1	2			Romanel	Alessandro
<i>Area Software and Service Architectures</i>											
145085	Web Architectures		INF/01	6	Car.	1-(2)	1			Ronchetti	Marco
145072	Requirements Engineering		INF/01	6	Car.	1-(2)	1			Perini	Anna
145322	Security Testing		INF/01	6	Car.	(1)-2	1			Pashchenko	Ivan
145867	Autonomous Software Agents		ING-INF/05	6	Car.	1	2			Giorgini	Paolo
145622	Cyber Security Risk Assessment		ING-INF/05	6	Car.	1	2		*	Massacci	Fabio
145056	Formal methods		ING-INF/05	12	Car.	1	2			Sebastiani	Roberto
(*) 145622 - 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 <i>Introduction to Computer and Network Security</i> , e preferibilmente anche <i>Applied Cryptography</i> e <i>Security Testing</i> (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 <i>Introduction to Computer and Network security</i> , and preferably also <i>Applied Cryptography</i> and <i>Security Testing</i> (or alternative courses depending on of their own studies or university).											
<i>Area Systems and Networks</i>											
145874	Robot Planning and its application		ING-INF/05	6	Car.	1-(2)	1			Palopoli	Luigi
145811	Low-power wireless networking for the Internet of Things		ING-INF/05	6	Car.	(1)-2	1			Picco	Gian Pietro
145071	Real-Time Operating Systems and Middleware		ING-INF/05	6	Car.	1-(2)	1			Palopoli	Luigi
145065	Network Security		INF/01	6	Car.	1	2		*	Crispo	Bruno
145618	Distributed systems 2		INF/01	6	Car.	2	1		**	Montesor	Alberto
145771	Fog and Cloud Computing		ING-INF/05	6	Car.	1	2			Siracusa	Domenico
155020	Multisensory Interactive Systems		ING-INF/05	6	Car.	(1)-2	1			Turchet	Luca
(*) 145065 - Si consiglia come prerequisito 145937 Introduction to Computer and Network Security al primo semestre per gli studenti che non hanno fatto altri corsi di Security. It is recommended as a prerequisite to attend 145937- Introduction to Computer and Network Security in the first semester for students that have not done other courses in Security.											
(**) 145618 - Per allineare i contenuti avanzati con i corsi EIT Digital del II anno si raccomanda di seguire questo corso solo agli studenti che abbiano già frequentato i corsi di "Distributed Systems 1" presso UNITN oppure "Distributed System" presso UTWENTE (o corsi alternativi a seconda del proprio percorso od ateneo). / To align advanced contents with EIT Digital II year courses, students are recommended to take this course only if they have already attended "Distributed Systems 1" courses at UNITN or "Distributed System" at UTWENTE (or alternative courses depending on their studies or university).											

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

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Breadth requirement								18			
Selezionare 18 crediti/Select 18 CFU from the areas above (different from the area of choice)											
Free-choice courses (see list below)								24	*		
<i>Technical Elective Courses</i>											
<i>Innovation and Entrepreneurship Elective Courses</i>											
<i>Foreign Language Elective Courses (6 credits max)</i>											
145098	Internship							6			
145302	Thesis							24			
Totale:								120			
<p>(*) Selezionare 24 crediti scelti liberamente fra gli insegnamenti offerti dall'Università di Trento. Gli insegnamenti elencati nelle liste precedenti, quelli elencati nella lista di corsi opzionali successiva e quelli suggeriti dallo strumento di compilazione dei piani di studio di ESSE3 sono approvati automaticamente. In tutti gli altri casi, è necessaria la compilazione di un piano di studio cartaceo che sarà valutato dall'apposita commissione.</p> <p>Select 24 free-choice credits among the courses offered by the University of Trento. The courses listed in the tables above, those listed in the free-choice courses table listed below, and those suggested in the online tool for study plan of ESSE3 are automatically approved. In all other cases, a personalized study plan must be completed and submitted to the commission for study plan examination.</p>											
<i>Technical Elective Courses</i>											
145777	Applied Cryptography	MAT/02	6	Scelta	1-2	1				Ranise	Silvio
145937	Introduction to Computer and Network Security	INF/01	6	Scelta	1-2	1				Ranise	Silvio
145550	Molecular Biology of the Cell	BIO/10	6	Scelta	1	1				Tiberi	Luca
145519	Offensive Technologies	ING-INF/05	12	Scelta	1-2	1			*	Massacci	Fabio
145589	Complexity, Cryptography and Financial Technologies	ING-INF/05	6	Scelta	1-2	1				Friolo	Daniele
145896	Statistical Methods	INF/01	6	Scelta	1-2	1				Pugliese	Andrea
145966	Statistical Models	INF/01	6	Scelta	1-2	2				Vinciotti	Veronica
145866	Introduction to Robotics	ING-INF/04	6	Scelta	1	2				Zaccarian	Luca

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

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145859	Natural Language Understanding		ING-INF/05	6	Scelta	1	2			Riccardi	Giuseppe
145459	Participatory Design		ING-INF/05	6	Scelta	1	1			D'Andrea	Vincenzo
145396	Formal Techniques for Cryptographic Protocol Analysis		INF/01	6	Scelta	1	2			Zunino	Roberto
145576	Quantum mechanics		FIS/01	6	Scelta	1	1			Faccioli	Pietro
145948	Quantum Computing		FIS/03	6	Scelta	1	2		***	Hauke	Philipp H. J.
145561	Bayesian Statistics		MAT/06	6	Scelta	1	2			Novi Inverardi	Pier Luigi
145762	Ultrasound Technologies for Medical Applications		ING-INF/03	6	Scelta	1-2	1			Demi	Libertario
145858	Signal, Image and Video		ING-INF/03	6	Scelta	1	1			De Natale	Francesco
145820	Laboratory of Computer Science Education		INF/01	6	Scelta	1	2		**	Montesor	Alessandro
145154	Experimental Mathematics Laboratory at School Level		MAT/04	6	Scelta	1	2		**	Delladio	Silvano
145153	Experimental Physics Laboratory at High School Level I		FIS/08	6	Scelta	2	1		**	Onorato	Pasquale
145301	Project course		INF/01 ING-INF/05	6	Scelta	1-2	1-2			DISI Faculty	
145289	Research Project		INF/01 ING-INF/05	12	Scelta	1-2	1-2			DISI Faculty	
<p>(*) 145519 Offensive Technologies - Per allineare i contenuti avanzati con i corsi ET Digital del II anno, si raccomanda di seguire questo corso solo agli studenti che abbiano già frequentato entrambi i corsi di "Network Security" e di "Security Testing" (o corsi alternativi a seconda del proprio percorso od ateneo). / To align advanced contents with 2nd year ET Digital courses, it is recommended to follow this course only for students who have already attended both the "Network Security" and "Security Testing" courses (or alternative courses depending on their studies or university).</p>											
<p>(**) 145820/145154/145153 - Corsi consigliati da abbinare a 145820-LCSE: 145153 o 145154. Per ulteriori informazioni su piani di studio individuali per soddisfare i requisiti previsti dalla normativa riguardo l'insegnamento nelle scuole secondarie, contattare il delegato ai rapporti con le scuole prof. Alberto Montesor. / Courses recommended to be combined with LCSE: 145153 or 145154. For additional information on individual study plans in compliance with law requirements for secondary school teaching, please refer to the delegate for relationships with secondary schools prof. Alberto Montesor.</p>											
<p>(***) 145948 Quantum Computing: si consiglia 145576 Quantum mechanics come prerequisito /145576 Quantum mechanics is recommended before attending 145948 Quantum Computing</p>											
<i>Innovation and Entrepreneurship Elective Courses</i>											
145323	Privacy and Intellectual Property Rights		ING-INF/05	6	Scelta	1-2	1			D'Andrea	Vincenzo

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

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145459	Participatory Design	ING-INF/05	6	Scelta	1	1			D'Andrea	Vincenzo
145518	ICT Innovation – Product Design and Development	ING-INF/05	6	Scelta	1	2			Formentini	Marco
<i>Foreign Language Elective Courses (max 6 CFU)</i>										
140189	Italian Language		3	Scelta	1-2	1-2		*	Centro Linguistico di Ateneo	
145879	Italian Language		6	Scelta	1-2	1-2		*	Centro Linguistico di Ateneo	
145091	Technical Writing	L-LIN/12	6	Scelta	1-2	1-2			Centro Linguistico di Ateneo	
145195	German B1		3	Scelta	1-2	1-2			Centro Linguistico di Ateneo	
145197	Spanish B1		3	Scelta	1-2	1-2			Centro Linguistico di Ateneo	
145196	French B1		3	Scelta	1-2	1-2			Centro Linguistico di Ateneo	
<p>(*) 140189/145879 - Il superamento di uno di questi corsi soddisfa il requisito della conoscenza della lingua italiana (vedi Regolamento LM INFO art. 7) rispettivamente al livello A1 e A2. 145879 può essere sostituito da corsi comprendenti due livelli di una qualsiasi lingua L2 diversa dall'inglese. / Taking one of these courses satisfies the possibile requirement of knowledge of Italian (see Regolamento LM INFO art. 7) at levels A1 and A2 respectively. 145879 can be substituted by courses encompassing two levels of any L2 language different from English.</p>										
<p>Please note: Foreign students are required to attest basic knowledge of the Italian language at least at level A1 CEFR (Common European Framework of Reference). Students can attend the Italian language course (140189 - Prova di conoscenza della lingua italiana A1) offered by the Language Center (CLA)</p>										
Percorso ICT Innovation										
Specialization area: Cyber Security (CSE) (1st year: Entry Point EIT)										
<i>Innovation and Entrepreneurship</i>										
145936	Innovation and Entrepreneurship Basic	SECS-P/10	6	Affine	1	1			Stoycheva	Milena
145288	Business Development Laboratory	SECS-P/08	9	Affine	1	2		*	Formentini	Marco
145455	ICT Innovation	ING-INF/05	9	Car.	1	2		**	Formentini	Marco

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

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<p>(*) 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. As part of the project for the improvement of the quality and interdisciplinary nature of the EIT Digital Innovation & Entrepreneurship (I&E) 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.</p>											
<p>(**) 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.</p>											
Mandatory courses								24			
145323	Privacy and Intellectual Property Rights	ING-INF/05	6	Car.	1	1				D'Andrea	Vincenzo
145777	Applied Cryptography	MAT/02	6	Scelta	1	1				Ranise	Silvio
145322	Security Testing	INF/01	6	Car.	1	1				Pashchenko	Ivan
145622	Cyber Security Risk Assessment	ING-INF/05	6	Car.	1	2		*		Massacci	Fabio
145065	Network Security	INF/01	6	Car.	1	2				Crispo	Bruno
<p>(*) 145622 Cyber Security Risk Assessment - 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 Applied 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 Applied Cryptography and Security Testing (or alternative courses depending on of their own studies or university).</p>											
Additional courses								12			
<p><i>Selezionare 2 CFU tra quelli elencati nella tabella precedente (corsi che non siano già stati scelti) o nella seguente tabella /select 12 CFU among those listed in the previous table or the one below</i></p>											
145062	Machine learning	INF/01	6	Car.	1	1				Passerini	Andrea
145614	Multimedia Data Security	ING-INF/03	6	Scelta	1-2	1				Boato	Giulia
145519	Offensive Technologies	ING-INF/05	12	Car.	2	1		*		Massacci	Fabio
145589	Complexity, Cryptography and Financial Technologies	ING-INF/05	6	Car.	2	1				Friolo	Daniele

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

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145618	Distributed systems 2		INF/01	6	Car.	2	1		**	Montresor	Alberto
145396	Formal Techniques for Cryptographic Protocol Analysis		INF/01	6	Car.	1	2			Zunino	Roberto
145937	Introduction to Computer and Network Security		INF/01	6	Car.	1	1			Ranise	Silvio
<p>(**) Distributed systems 2 - Per allineare i contenuti avanzati con i corsi EIT Digital del II anno si raccomanda di seguire questo corso solo agli studenti che abbiano già frequentato entrambi i corsi di "Distributed Systems 1" presso UNITN oppure "Distributed System" presso UTWENTE (o corsi alternativi a seconda del proprio percorso od ateneo). To align advanced contents with EIT Digital II year courses, students are recommended to take this course only if they have already attended "Distributed Systems 1" at UNITN or "Distributed System" at UTWENTE (or alternative courses depending on their studies or university).</p>											
<p>(*) 145519 Offensive Technologies - Per allineare i contenuti avanzati con i corsi ET Digital del II anno, si raccomanda di seguire questo corso solo agli studenti che abbiano già frequentato entrambi i corsi di "Network Security" e di "Security Testing" (o corsi alternativi a seconda del proprio percorso od ateneo). To align advanced contents with 2nd year ET Digital courses, it is recommended to follow this course only for students who have already attended both the "Network Security" and "Security Testing" courses (or alternative courses depending on their studies or university).</p>											
Specialization area: Cyber Security (CSE) (2nd year: Exit Point EIT)											
<i>Innovation and Entrepreneurship</i>											
145623	Innovation and Entrepreneurship Studies in ICT		INF/01	6	Car.	2	1	6		Marchese	Maurizio
<i>Additional courses</i>											
145614	Multimedia Data Security		ING-INF/03	6	Scelta	2	1			Boato	Giulia
145519	Offensive Technologies		ING-INF/05	12	Car/Scelta	2	1		*	Massacci	Fabio
145589	Complexity, Cryptography and Financial Technologies		ING-INF/05	6	Car/Scelta	2	1			Friolo	Daniele
145301	Project course		INF/01 ING-INF/05	6	Car/Scelta	2	1			DISI Faculty	
145289	Research Project		INF/01 ING-INF/05	12	Car/Scelta	2	1			DISI Faculty	
145322	Security Testing		INF/01	6	Car/Scelta	2	1			Pashchenko	Ivan
145062	Machine learning		INF/01	6	Car/Scelta	2	1			Passerini	Andrea
145618	Distributed systems 2		INF/01	6	Car/Scelta	2	1		**	Montresor	Alberto
145323	Privacy and Intellectual Property Rights		ING-INF/05	6	Car/Scelta	2	1			D'Andrea	Vincenzo

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

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145972	High-Performance Computing for Data Science		ING-INF/05	6	Car./Scelta	2	1			Fiore	Sandro
<p>(*) Offensive Technologies - Tace a.a. 2020-21 Per allineare i contenuti avanzati con i corsi ET Digital del II anno, si raccomanda di seguire questo corso solo agli studenti che abbiano già frequentato entrambi i corsi di "Network Security" e di "Security Testing" (o corsi alternativi a seconda del proprio percorso od ateneo). To align advanced contents with 2nd year ET Digital courses, it is recommended to follow this course only for students who have already attended both the "Network Security" and "Security Testing" courses (or alternative courses depending on their studies or university).</p>											
<p>(**) 145618 Distributed systems 2 - Per allineare i contenuti avanzati con i corsi EIT Digital del II anno si raccomanda di seguire questo corso solo agli studenti che abbiano già frequentato entrambi i corsi di "Distributed Systems 1" presso UNITN oppure "Distributed System" presso UTWENTE (o corsi alternativi a seconda del proprio percorso od ateneo). To align advanced contents with EIT Digital II year courses, students are recommended to take this course only if they have already attended "Distributed Systems 1" at UNITN or "Distributed System" at UTWENTE (or alternative courses depending on their studies or university).</p>											
<p>Gli studenti non possono scegliere un corso già scelto in passato. Un corso non può essere scelto due volte neppure se la scelta è fatta in un'altra Università. Students cannot choose a course that has been already chosen in the past. A course cannot be chosen twice even if the choice is made at a different University.</p>											
145098	Internship							6			
145302	Thesis							24			
Tot								120			
Specialization area: Software and Service Architectures (SSA) (1st year: Entry Point)											
<i>Innovation and Entrepreneurship</i>											
145936	Innovation and Entrepreneurship Basic		SECS-P/10	6	Affine	1	1			Stoycheva	Milena
145288	Business Development Laboratory		SECS-P/08	9	Affine	1	2		*	Formentini	Marco
145455	ICT Innovation		ING-INF/05	9	Car.	1	2		**	Formentini	Marco
<p>(*) 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. As part of the project for the improvement of the quality and interdisciplinary nature of the EIT Digital Innovation & Entrepreneurship (I&E) 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.</p>											
<p>(**) 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.</p>											

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

AD Code ESSE3	CORSO	COURSES	SSD ACADEMIC DISCIPLINE	CFU CREDITS	TAF TRAINING ACTIVITY	ANNO YEAR	SEMESTRE SEMESTER	CREDITI DA SCEGLIERE CREDITS TO CHOOSE	TE NOTES	Docente TITOLARE COGNOME PROFESSOR	Docente TITOLARE NOME
<i>Mandatory Technical courses</i>								24			
145810	Service Design and Engineering		ING-INF/05	6	Car.	1	1			Marchese	Maurizio
145072	Requirements Engineering		INF/01	6	Car.	1	1			Perini	Anna
145459	Participatory Design		ING-INF/05	6	Car.	1	1			D'Andrea	Vincenzo
145937	Introduction to Computer and Network Security		INF/01	6	Car.	1	1			Ranise	Silvio
146066	Human-Computer Interaction		ING-INF/05	6	Car.	1	1			Turchet	Luca
<i>Additional courses</i>								12			
145062	Machine learning		INF/01	6	Car	1	1			Passerini	Andrea
145085	Web Architectures		INF/01	6	Car	1-2	1			Ronchetti	Marco
145322	Security Testing		INF/01	6	Car	1-2	1			Pashchenko	Ivan
145323	Privacy and Intellectual Property Rights		ING-INF/05	6	Car	1-2	1			D'Andrea	Vincenzo
145867	Autonomous Software Agents		ING-INF/05	6	Car	1	2			Giorgini	Paolo
145622	Cyber Security Risk Assessment		ING-INF/05	6	Car	1	2		*	Massacci	Fabio
145301	Project course		INF/01 ING-INF/05	6	Car	1-2	2-1			DISI Faculty	
145865	Optimization techniques		INF/01	6	Car	1	2		**	Tace nel 2021-22	
145763	Bio-Inspired Artificial Intelligence		ING-INF/05	6	Car	1	2			Iacca	Giovanni
145617	Distributed systems 1		ING-INF/05	6	Car	1	2			Picco	Gian Pietro
<p>(*) 145622 Cyber Security Risk Assessment - 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 Applied 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 Applied Cryptography and Security Testing (or alternative courses depending on of their own studies or university).</p>											
(**) Tace nel 21-22. The course is not activated in 21-22.											
Specialization area: Software and Service Architectures (SSA) (2nd year: Exit Point)											
<i>Mandatory</i>								6			

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

AD Code ESSE3	CORSO	COURSES	SSD ACADEMIC DISCIPLINE	CFU CREDITS	TAF TRAINING ACTIVITY	ANNO YEAR	SEMESTRE SEMESTER	CREDITI DA SCEGLIERE CREDITS TO CHOOSE	TE NOTES	Docente TITOLARE COGNOME PROFESSOR	Docente TITOLARE NOME	
145623	Innovation and Entrepreneurship Studies in ICT		INF/01	6	Car.	2	1			Marchese	Maurizio	
								24				
<i>Additional courses</i>												
145453	Data Mining		ING-INF/05	6	Car/Scelta	2	1			Velegrakis	Yannis	
145937	Introduction to Computer and Network Security		INF/01	6	Car/Scelta	2	1			Ranise	Silvio	
145062	Machine learning		INF/01	6	Car/Scelta	2	1			Passerini	Andrea	
145323	Privacy and Intellectual Property Rights		ING-INF/05	6	Car/Scelta	2	1			D'Andrea	Vincenzo	
145322	Security Testing		INF/01	6	Car/Scelta	2	1			Pashchenko	Ivan	
145085	Web Architectures		INF/01	6	Car/Scelta	1-2	1			Ronchetti	Marco	
145618	Distributed systems 2		INF/01	6	Car/Scelta	2	1		*	Montresor	Alberto	
145301	Project course		INF/01	6	Car/Scelta	2	1			DISI Faculty		
			ING-INF/05									
<p>(*) 145618 Distributed systems 2 - Per allineare i contenuti avanzati con i corsi EIT Digital del II anno si raccomanda di seguire questo corso solo agli studenti che abbiano già frequentato entrambi i corsi di "Distributed Systems 1" presso UNITN oppure "Distributed System" presso UTWENTE (o corsi alternativi a seconda del proprio percorso od ateneo).</p> <p>To align advanced contents with EIT Digital II year courses, students are recommended to take this course only if they have already attended "Distributed Systems 1" at UNITN or "Distributed System" at UTWENTE (or alternative courses depending on their studies or university).</p>												
<p>Gli studenti non possono scegliere un corso già scelto in passato. Un corso non può essere scelto due volte neppure se la scelta è fatta in un'altra Università.</p> <p>Students cannot choose a course that has been already chosen in the past. A course cannot be chosen twice even if the choice is made at a different University.</p>												
145098	Internship							6				
145302	Thesis							24				
							TOT	120				
Specialization area: Data Science (DS) (1st year: Entry Point)												
<i>Innovation and Entrepreneurship</i>												
								24				
145936	Innovation and Entrepreneurship Basic		SECS-P/10	6	Affine	1	1			Stoycheva	Milena	
145288	Business Development Laboratory		SECS-P/08	9	Affine	1	2		*	Formentini	Marco	
145455	ICT Innovation		ING-INF/05	9	Car.	1	2		**	Formentini	Marco	

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

AD Code ESSE3	CORSO	COURSES	SSD ACADEMIC DISCIPLINE	CFU CREDITS	TAF TRAINING ACTIVITY	ANNO YEAR	SEMESTRE SEMESTER	CREDITI DA SCEGLIERE CREDITS TO CHOOSE	TE NOTES	Docente TITOLARE COGNOME PROFESSOR	Docente TITOLARE NOME
<p>(*) 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. As part of the project for the improvement of the quality and interdisciplinary nature of the EIT Digital Innovation & Entrepreneurship (I&E) 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.</p>											
<p>(**) 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.</p>											
<i>Mandatory courses</i>								24			
145453	Data Mining		ING-INF/05	6 Car.		1	1			Velegrakis	Yannis
145919	Knowledge and Data Integration		ING-INF/05	6 Car.		1	1			Giunchiglia	Fausto
145062	Machine learning		INF/01	6 Car		1	1			Passerini	Andrea
146066	Human-Computer Interaction		ING-INF/05	6 Car.		1	1			Turchet	Luca
145323	Privacy and Intellectual Property Rights		ING-INF/05	6 Car.		1	1			D'Andrea	Vincenzo
145053	Laboratory of Biological Data Mining		ING-INF/05	6 Car.		1	1			Blanzieri	Enrico
<i>Additional courses</i>								12			
145085	Web Architectures		INF/01	6 Car		1	1			Ronchetti	Marco
145896	Statistical Methods		INF/01	6 Car		1	1			Pugliese	Andrea
145966	Statistical Models		INF/01	6 Car		1	2			Vinciotti	Veronica
145865	Optimization techniques		INF/01	6 Car		1	2		**	Tace nel 2021-22	
145763	Bio-Inspired Artificial Intelligence		ING-INF/05	6 Car		1	2			Iacca	Giovanni
145764	Deep learning		ING-INF/05	6 Car		1	2		*	Ricci	Elisa
145617	Distributed Systems 1		ING-INF/05	6 Car		1	2			Picco	Gian Pietro
145771	Fog and Cloud Computing		ING-INF/05	6 Car		1	2			Siracusa	Domenico
(*) 145764 Deep learning - It is required as a prerequisite: 145062 - Machine learning or 145461 - Recognition Systems.											

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

AD Code ESSE3	CORSO COURSES	SSD ACADEMIC DISCIPLINE	CFU CREDITS	TAF TRAINING ACTIVITY	ANNO YEAR	SEMESTRE SEMESTER	CREDITI DA SCEGLIERE CREDITS TO CHOOSE	TE NOTES	Docente TITOLARE COGNOME PROFESSOR	Docente TITOLARE NOME
(**) 145865 Optimization techniques Tace nel 21-22. The course is not activated in 21-22.										
Specialization area: Data Science (DS) (2nd year: Exit Point EIT)							6			
<i>Mandatory</i>										
145623	Innovation and Entrepreneurship Studies in ICT	INF/01	6 Car.		2	1			Marchese	Maurizio
<i>Additional courses</i>							24			
145585	Quantum Machine Learning	ING-INF/05	6 Car/Scelta		2	1			Pastorello	Davide
145453	Data Mining	ING-INF/05	6 Car/Scelta		2	1			Velegrakis	Yannis
145919	Knowledge and Data Integration	ING-INF/05	6 Car/Scelta		2	1			Giunchiglia	Fausto
145085	Web Architectures	INF/01	6 Car/Scelta		2	1			Ronchetti	Marco
145520	Affective computing	ING-INF/05	6 Car/Scelta		2	1			Sebe	Niculae
145851	Advanced computing architectures	ING-INF/01	6 Scelta		2	1			Passerone	Roberto
145323	Privacy and Intellectual Property Rights	ING-INF/05	6 Car/Scelta		2	1			D'Andrea	Vincenzo
145972	High-Performance Computing for Data Science	ING-INF/05	6 Car./Scelta		2	1			Fiore	Sandro
Gli studenti non possono scegliere un corso già scelto in passato. Un corso non può essere scelto due volte neppure se la scelta è fatta in un'altra Università. Students cannot choose a course that has been already chosen in the past. A course cannot be chosen twice even if the choice is made at a different University.										
145098	Internship						6			
145302	Thesis						24			
TOT							120			
Specialization area: Embedded System (ES) (1st year: Entry Point)										
<i>Innovation and Entrepreneurship</i>							24			
145936	Innovation and Entrepreneurship Basic	SECS-P/10	6 Affine		1	1			Stoycheva	Milena
145288	Business Development Laboratory	SECS-P/08	9 Affine		1	2		*	Formentini	Marco
145455	ICT Innovation	ING-INF/05	9 Car.		1	2		**	Formentini	Marco

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

AD Code ESSE3	CORSO	COURSES	SSD ACADEMIC DISCIPLINE	CFU CREDITS	TAF TRAINING ACTIVITY	ANNO YEAR	SEMESTRE SEMESTER	CREDITI DA SCEGLIERE CREDITS TO CHOOSE	TE NOTES	Docente TITOLARE COGNOME PROFESSOR	Docente TITOLARE NOME
<p>(*) 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. As part of the project for the improvement of the quality and interdisciplinary nature of the EIT Digital Innovation & Entrepreneurship (I&E) 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.</p>											
<p>(**) 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.</p>											
Mandatory								18			
145851	Advanced computing architectures		ING-INF/01	6	Scelta	1	1			Passerone	Roberto
145071	Real-Time Operating Systems and Middleware		ING-INF/05	6	Car.	1	1			Palopoli	Luigi
145056	Formal methods		ING-INF/05	12	Car.	1	2			Sebastiani	Roberto
145062	Machine learning		INF/01	6	Car	1	1			Passerini	Andrea
145874	Robot Planning and its application		ING-INF/05	6	Car	1	1			Palopoli	Luigi
Additional courses								18			
145764	Deep learning		ING-INF/05	6	Car	1	2		*	Ricci	Elisa
145617	Distributed Systems 1		ING-INF/05	6	Car	1	2			Picco	Gian Pietro
140500	Automatic Control		ING-INF/04	9	Scelta	1	2			Zaccarian	Luca
140502	Embedded Systems		ING-INF/01	9	Scelta	1	1			Brunelli	Davide
145811	Low-power wireless networking for the Internet of Things		ING-INF/05	6	Car	1-2	1			Picco	Gian Pietro
<p>(*) 145764 Deep learning - It is required as a prerequisite: 145062 - Machine learning or 145461 - Recognition Systems.</p>											
<p>Gli studenti che non partecipano al programma di Doppia Laurea EIT Digital Master School e quindi fanno entrambi gli anni presso UNITN non possono fare più di 24 CFU complessivi nei settori ING-INF/01, ING-INF/04</p>											

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

AD Code ESSE3	CORSO COURSES	SSD ACADEMIC DISCIPLINE	CFU CREDITS	TAF TRAINING ACTIVITY	ANNO YEAR	SEMESTRE SEMESTER	CREDITI DA SCEGLIERE CREDITS TO CHOOSE	TE NOTES	Docente TITOLARE COGNOME PROFESSOR	Docente TITOLARE NOME	
Specialization area: Embedded Systems (2nd year: Exit Point EIT)											
<i>Mandatory</i>											
145623	Innovation and Entrepreneurship Studies in ICT	INF/01	6	Car.	2	1			Marchese	Maurizio	
<i>Additional courses</i>											
							24				
145851	Advanced computing architectures	ING-INF/01	6	Scelta	2	1			Passerone	Roberto	
145874	Robot Planning and its application	ING-INF/05	6	Car/Scelta	2	1			Palopoli	Luigi	
145811	Low-power wireless networking for the Internet of Things	ING-INF/05	6	Car/Scelta	2	1			Picco	Gian Pietro	
145071	Real-Time Operating Systems and Middleware	ING-INF/05	6	Car/Scelta	2	1			Palopoli	Luigi	
140472	Distributed systems for measurement and automation	ING-INF/07	6	Scelta	2	1			Fontanelli	Domenico	
145301	Project course	INF/01 ING-INF/05	6	Car/Scelta	2	1			DISI Faculty		
145618	Distributed systems 2	INF/01	6	Car/Scelta	2	1		*	Montresor	Alberto	
145289	Research Project	INF/01 ING-INF/05	12	Car/Scelta	2	1			DISI Faculty		
<p>(*) 145618 Distributed systems 2 - Per allineare i contenuti avanzati con i corsi EIT Digital del II anno si raccomanda di seguire questo corso solo agli studenti che abbiano già frequentato entrambi i corsi di "Distributed Systems 1" presso UNITN oppure "Distributed System" presso UTWENTE (o corsi alternativi a seconda del proprio percorso od ateneo). To align advanced contents with EIT Digital II year courses, students are recommended to take this course only if they have already attended "Distributed Systems 1" at UNITN or "Distributed System" at UTWENTE (or alternative courses depending on their studies or university).</p>											
<p>Gli studenti non possono scegliere un corso già scelto in passato. Un corso non può essere scelto due volte neppure se la scelta è fatta in un'altra Università. Students cannot choose a course that has been already chosen in the past. A course cannot be chosen twice even if the choice is made at a different University.</p>											
<p>Gli studenti che non partecipano al programma di Doppia Laurea EIT Digital Master School e quindi fanno entrambi gli anni presso UNITN non possono fare più di 24 CFU complessivi nei settori ING-INF/01, ING-INF/04</p>											
145098	Internship						6				
145302	Thesis						24				
						TOT	120				
Specialization area: Finance Technology (Fintech) (1st year: Entry Point EIT)											

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

AD Code ESSE3	CORSO	COURSES	SSD ACADEMIC DISCIPLINE	CFU CREDITS	TAF TRAINING ACTIVITY	ANNO YEAR	SEMESTRE SEMESTER	CREDITI DA SCEGLIERE CREDITS TO CHOOSE	TE NOTES	Docente TITOLARE COGNOME PROFESSOR	Docente TITOLARE NOME
<i>Innovation and Entrepreneurship</i>								24			
145936	Innovation and Entrepreneurship Basic		SECS-P/10	6	Affine	1	1			Stoycheva	Milena
145288	Business Development Laboratory		SECS-P/08	9	Affine	1	2		*	Formentini	Marco
145455	ICT Innovation		ING-INF/05	9	Car.	1	2		**	Formentini	Marco
<p>(*) 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. As part of the project for the improvement of the quality and interdisciplinary nature of the EIT Digital Innovation & Entrepreneurship (I&E) 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.</p>											
<p>(**) 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.</p>											
<i>Mandatory</i>								24			
145937	Introduction to Computer and Network Security		INF/01	6	Car/Scelta	2	1			Ranise	Silvio
145622	Cyber Security Risk Assessment		ING-INF/05	6	Car.	1	2		*	Massacci	Fabio
145764	Deep learning		ING-INF/05	6	Car	1	2		**	Ricci	Elisa
145062	Machine learning		INF/01	6	Car	1	1			Passerini	Andrea
145586	Game Theory		ING-INF/05	6	Car	1	2			Kuper	Gabriel
145085	Web Architectures		INF/01	6	Car	1	1			Ronchetti	Marco
<p>(*) 145622 Cyber Security Risk Assessment - 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 and Network Security (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 (or alternative courses depending on of their own studies or university).</p>											
<i>Additional courses</i>								12			
145590	International Accounting and Finance I: International Accounting		SECS-P/07	6	Scelta	1	1		*	Pesci	Caterina

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

AD Code ESSE3	CORSO	COURSES	SSD ACADEMIC DISCIPLINE	CFU CREDITS	TAF TRAINING ACTIVITY	ANNO YEAR	SEMESTRE SEMESTER	CREDITI DA SCEGLIERE CREDITS TO CHOOSE	TE NOTES	Docente TITOLARE COGNOME PROFESSOR	Docente TITOLARE NOME
145591	International Accounting and Finance II: International Corporate Finance		SECS-P/11	6	Scelta	1	2		**	Chatterjee	Ujjal Kanti
145896	Statistical Methods		INF/01	6	Car	1	1			Pugliese	Andrea
145966	Statistical Models		INF/01	6	Car	1	2			Vinciotti	Veronica
145617	Distributed Systems 1		ING-INF/05	6	Car	1	2			Picco	Gian Pietro
121414	Workshop on Financial Simulation		SECS-S/03	6	Scelta	1	2			Bee	Marco
145300	Concurrency		INF/01	6	Car	1	1			Quaglia	Paola
145763	Bio-Inspired Artificial Intelligence		ING-INF/05	6	Car	1	2			Iacca	Giovanni
145867	Autonomous Software Agents		ING-INF/05	6	Car	1	2			Giorgini	Paolo
<p>(*) 145590 International Accounting and Finance I: International Accounting - 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 Economia e misurazione aziendale [120006] or Introduction to Accounting (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 Economia e misurazione aziendale [120006] or Introduction to Accounting (or alternative courses depending on of their own studies or university).</p>											
<p>(**) 145591 International Accounting and Finance II: International Corporate Finance -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 120114 Finanza aziendale [120114] (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 Finanza aziendale [120114] (or alternative courses depending on of their own studies or university).</p>											
<p>Gli studenti che non partecipano al programma di Doppia Laurea EIT Digital Master School e quindi fanno entrambi gli anni presso UNITN non possono fare più di 24 CFU complessivi nei settori SECS-P/07, SECS-P/11, SECS-S/03, SECS-P/01, SECS-S/06</p>											
Specialization area: Finance Technology (2nd year: Exit Point EIT) from 2021/2022											
<i>Mandatory</i>											
145623	Innovation and Entrepreneurship Studies in ICT		INF/01	6	Car.	2	1		6	Marchese	Maurizio
<i>Additional courses</i>											
145589	Complexity, Cryptography and Financial Technologies		ING-INF/05	6	Car./Scelta	2	1		24	Friolo	Daniele
121416	Risk Management		SECS-S/06	6	Scelta	2	1			Paterlini	Sandra
145300	Concurrency		INF/01	6	Car/Scelta	2	1			Quaglia	Paola
121395	Financial Markets and Economic Activity		SECS-P/01	6	Scelta	2	1			Gobbi	Lucio

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

AD Code ESSE3	CORSO	COURSES	SSD ACADEMIC DISCIPLINE	CFU CREDITS	TAF TRAINING ACTIVITY	ANNO YEAR	SEMESTRE SEMESTER	CREDITI DA SCEGLIERE CREDITS TO CHOOSE	TE NOTES	Docente TITOLARE COGNOME PROFESSOR	Docente TITOLARE NOME
145618	Distributed systems 2		INF/01	6	Car/Scelta	2	1		*	Montresor	Alberto
145453	Data Mining		ING-INF/05	6	Car/Scelta	2	1			Velegrakis	Yannis
145289	Research Project		INF/01	12	Car/Scelta	2	1			DISI Faculty	
			ING-INF/05								
<p>(*) 145618 Distributed systems 2 - Per allineare i contenuti avanzati con i corsi EIT Digital del II anno si raccomanda di seguire questo corso solo agli studenti che abbiano già frequentato entrambi i corsi di "Distributed Systems 1" presso UNITN oppure "Distributed System" presso UTWENTE (o corsi alternativi a seconda del proprio percorso od ateneo). To align advanced contents with EIT Digital II year courses, students are recommended to take this course only if they have already attended "Distributed Systems 1" at UNITN or "Distributed System" at UTWENTE (or alternative courses depending on their studies or university).</p>											
<p>Gli studenti non possono scegliere un corso già scelto in passato. Un corso non può essere scelto due volte neppure se la scelta è fatta in un'altra Università. Students cannot choose a course that has been already chosen in the past. A course cannot be chosen twice even if the choice is made at a different University.</p>											
<p>Gli studenti che non partecipano al programma di Doppia Laurea EIT Digital Master School e quindi fanno entrambi gli anni presso UNITN non possono fare più di 24 CFU complessivi nei settori SECS-P/07, SECS-P/11, SECS-S/03, SECS-P/01, SECS-S/06</p>											
145098	Internship							6			
145302	Thesis							24			
							TOT	120			
Specialization area: Human Computer Interaction and Design (2nd year: Exit Point EIT)											
<i>Mandatory</i>											
145623	Innovation and Entrepreneurship Studies in ICT		INF/01	6	Car.	2	1			Marchese	Maurizio
								6			
<i>Additional courses</i>											
155019	Prototyping interactive systems		INF/01	6	Car/Scelta	2	1			Zancanaro	Massimo
145520	Affective computing		ING-INF/05	6	Car/Scelta.	2	1			Sebe	Niculae
155003	Social interaction		M-PSI/05	6	Scelta	2	1			Vaes	Jeroen Andre Filip
155024	Visual brain and design		ING-INF/06	6	Scelta	2	1			Caria	Andrea
145459	Participatory Design		ING-INF/05	6	Car/Scelta	2	1			D' Andrea	Vincenzo
155020	Multisensory Interactive Systems		ING-INF/05	6	Car/Scelta	2	1			Turchet	Luca

Manifesto Laurea Magistrale in Informatica - anno accademico 2021-22

AD <i>Code ESSE3</i>	CORSO <i>COURSES</i>	SSD <i>ACADEMIC DISCIPLINE</i>	CFU <i>CREDITS</i>	TAF <i>TRAINING ACTIVITY</i>	ANNO <i>YEAR</i>	SEMESTRE <i>SEMESTER</i>	CREDITI DA SCEGLIERE <i>CREDITS TO CHOOSE</i>	TE <i>NOTES</i>	Docente TITOLARE COGNOME <i>PROFESSOR</i>	Docente TITOLARE NOME
145301	Project course	INF/01 ING-INF/05	6	Car/Scelta	2	1			DISI Faculty	
145098	Internship						6			
145302	Thesis						24			
						TOT	60			

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.

Legenda:

INFO: corso di laurea magistrale in Informatica / Master of Science in Computer Science
 COMM: corso di laurea magistrale in Ingegneria dell’Informazione e delle Comunicazioni / Master of Science in Information and Communication Engineering
 AIS: corso di laurea magistrale in Artificial Intelligence Systems
 HCI: corso di laurea magistrale in Human-Computer Interaction / Master of Science in Human-Computer Interaction
 QCB: corso di laurea magistrale in Quantitative and Computational Biology/ Master of Science in Quantitative and Computational Biology
 DS: corso di laurea magistrale in Data Science
 MAT: corso di laurea magistrale in Matematica / Master of Science in Mathematics
 ING MECC: corso di laurea magistrale in Ingegneria Meccanica / Master in Mechanical Engineering
 DEM: Dipartimento di Economia e Management / Department of Economics and Management
 LM: corso di laurea magistrale / Master of Science
 LT: corso di laurea / Bachelor of Science