

TABELLE 1 e 2 DEL REGOLAMENTO DIDATTICO DEL CORSO DI LAUREA MAGISTRALE IN HUMAN COMPUTER INTERACTION (CLASSE LM 55) in sostituzione delle tabelle allegate al Regolamento didattico del corso di Laurea magistrale interdipartimentale in Human Computer Interaction emanato con DR 600 di data 30 luglio 2018 e si applicano a partire dalla coorte 2023/2024

Tabella 1 – Obiettivi delle attività formative previste dal Corso di Laurea Magistrale in Human Computer Interaction: coorti di studentesse e studenti iscritte/i all'a.a. 2023/2024 e successivi

Insegnamenti obbligatori primo e secondo anno

Design experience The course consists of two parts: 1) Cognitive ergonomics: the modules aims at providing a theoretical base on the cognitive aspects of interaction design as well as the methods and techniques derived from cognitive models of interaction; 2) Participatory design: the module aims at providing a theoretical framework and empirical experience of Participatory Design, including planning a PD project, running it, communicating the results. Building on the basic concepts of social cognition, the current course aims to provide a comprehensive overview of the emotions, attitudes and behaviors that products and their interfaces can elicit on the self, and how they can impact interpersonal and intergroup interactions in different cultures. The course's objective is to provide the basis for understanding the relationships between structure and function/mind and brain with particular emphasis to the neural mechanisms underlying visual and multisensory perception, and attention. These processes will be explored through the study of cognitive neuroscience paradigms, and discussed in the framework of visual design and human-computer interaction. The course covers some basic/intermediate statistical and computational analyses for conducting empirical quantitative research. The statistics introduced will serve to explore quantitative data and organize data for statistical analysis and modeling. The statistical procedures will be illustrated using the R statistical package. Topics in the course will include: experimental design, questionnaires and surveys (both paper and pencil format and online format), social network analysis, and inferential statistics including generalized linear mixed models. The course intends to analyze the theoretical and methodological framework of the qualitative research and to teach how to	Nome incorrements	Objectivi formativi
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Prototyping interactive systems visual communication are presented in the context of interaction design, cognition and user behavior. Tirocinio formativo	Affective computing	important research issues, and to ascertain potentially fruitful future research directions in relation to the multimodal emotion analysis and to human-computer interaction. In particular, the course will introduce key concepts, discuss technical approaches, and open issues in the following areas: interaction of emotion with cognition and perception; the role of emotion in human-computer interaction; the communication of human emotion via face, voice, physiology, and behavior; construction of computers that have skills of emotional intelligence; the development of computers that "have"
	Prototyping interactive systems	The course covers methodologies for designing and prototyping graphic user interfaces. Principles of design research and visual communication are presented in the context of interaction design, cognition and user behavior.
Prova finale	Tirocinio formativo	
	Prova finale	



Insegnamenti a scelta vincolata: 6 CFU tra i seguenti insegnamenti

Nome insegnamento	Obiettivi formativi
Bridging HCI to Psychology	The course objective is to provide a common perspective on HCI terminology and approaches and an historical perspective on the disciple specifically on its relation and historical evolution with cognitive psychology. Students will acquire theoretical knowledge about the role cognition plays in interacting with digital technologies and the importance of the recent advances in neuroscience for the future of HCI.
Bridging HCI to Computer Science	The course objective is to provide a common perspective on HCl terminology and approaches and an historical perspective on the disciple specifically on its relation and historical evolution with computer science. Students will acquire theoretical knowledge on the major technical patterns of digital interactive infrastructure and a working knowledge on computational thinking.

Insegnamenti a scelta vincolata (*): 6 CFU tra i seguenti insegnamenti:

Cognitive Neuroscience and Neurotechnology	The course analyzes how interactive technologies may benefit from careful consideration of cognitive and brain processes. Specific emphasis will be devoted to the the application of such knowledge to implement technological devices to help individuals suffering from psychological and neurological problems
Visual design	The course covers principles of visual design that will allow for efficient organization and presentation of information using technological interfaces. Topics will include typography, information architecture, layout, color, and design principles with specific reference to mobile devices.
Design for social inclusion	The course will explore the interaction and institutional conditions for the design of physical, technological and organizational devices able to provide greater chances of inclusion of disadvantaged groups.

Insegnamenti a scelta vincolata (*): 6 CFU tra i seguenti insegnamenti:

Educational technology	This course focuses on the theory and the practice of the design of Interactive applications for human use in real life contexts. The theme of the course may range from e-learning, to mobile computing, game design, or e-health. The objective of the course is to develop an awareness of the theoretical and practical assumptions a designer needs to make in order to develop useful, usable and engaging application for real life use.
Multisensory interactive systems	This course introduces new paradigms of interaction beyond graphical users interfaces and in particular multisensory, physical and tangible interactions. In particular it aims at providing students with an understanding of concepts and techniques for designing usable and engaging interactive systems within these paradigms including the introduction of a tools for building prototypes.

(*) annualmente verrà valutata l'opportunità di attivare tutti o alcuni degli insegnamenti indicati



Tabella 2 – Articolazione del Corso di Laurea Magistrale in Human Computer Interaction per le coorti di studentesse e studenti iscritte/i all'a.a. 2023/2024 e successivi

I ANNO DI CORSO

Insegnamenti obbligatori

Nome insegnamento	CFU	SSD	Tipo attività formativa	Propedeuticità
Design experience	12	ING-INF/05	Caratterizzante	
Social interaction	6	M-PSI/05	Caratterizzante	
Visual brain and design	6	MED/37	Affine integrativa	
Research methodology – quantitive	6	M-PSI/03	Caratterizzante	
Research methodology – qualitative	6	SPS/07	Caratterizzante	
Design epistemology and ethics	6	M-FIL/04	Affine integrativa	

I ANNO DI CORSO

Insegnamenti a scelta vincolata: 6 CFU tra i seguenti insegnamenti:

Nome insegnamento	CFU	SSD	Tipo attività formativa	Propedeuticità
Bridging HCI to Psychology	6	M-PSI/05	Caratterizzante	
Bridging HCI to Computer Science	6	INF/01	Caratterizzante	

II ANNO DI CORSO

Insegnamenti obbligatori

Nome insegnamento	CFU	SSD	Tipo attività formativa	Propedeuticità
Affective computing	6	INF-INF/05	Caratterizzante	
Prototyping interactive systems	6	INF/01	Caratterizzante	
Tirocinio formativo	18		Altre attività	
Prova finale	18		Altre attività	

I e II ANNO DI CORSO

Insegnamenti a scelta vincolata: 6 CFU tra i seguenti insegnamenti:

Nome insegnamento	CFU	SSD	Tipo attività formativa	Propedeuticità
Cognitive Neuroscience and Neurotechnology	6	M-PSI/02	Caratterizzante	
Design for Social inclusion	6	SPS/07	Caratterizzante	
Visual design	6	ICAR/17	Affine integrativa	

Insegnamenti a scelta vincolata: 6 CFU tra i seguenti insegnamenti:

Nome insegnamento	CFU	SSD	Tipo attività formativa	Propedeuticità
Educational technology	6	INF/01	Caratterizzante	
Multisensory interactive systems	6	ING-INF/05	Caratterizzante	

INSEGNAMENTI A SCELTA LIBERA - 12 cfu

Il percorso formativo prevede l'acquisizione di 12 CFU senza vincoli di settore scientifico disciplinare scelti tra gli insegnamenti che vengono appositamente attivati dal corso di laurea e annualmente pubblicati nel manifesto degli studi o tra quelli attivati dall'Ateneo.