

| MASTER | | | | | | |
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| COURSE TITLE (IN ENGLISH) | COURSE TITLE (IN ITALIAN) | SEMESTER | TEACHING LANGUAGE | LECTURER | BACHELOR - MASTER | ECTS |
| 3d video games | 3d video games | Second | English | TARINI | Master in Computer Science | 6 |
| Advanced biometrics | Complementi di biometria | First | Italian | SCOTTI | Master in Informatics Security | 6 |
| Advanced intelligent systems | Sistemi intelligenti avanzati | First | Italian | BORGHESE | Master in Computer Science | 6 |
| Advanced programming | Programmazione avanzata | First | Italian | CAZZOLA | Master in Computer Science | 6 |
| Advanced programming | Tecniche speciali di programmazione | First | Italian | CAZZOLA | Master in Computer Science | 6 |
| Advances in operating systems | Progettazione di sistemi operativi | Second | Italian | BRUSCHI | Master in Computer Science | 6 |
| Affective computing | Affective computing | First | English | BOCCIGNONE | Master in Computer Science | 6 |
| Algorithms and | Algoritmi e | First | Italian | BOLDI | Master in Computer Science | 6 |
| Algorithms for massive datasets | Algorithms for massive datasets | Second | English | MALCHIODI | Master in Computer Science | 6 |
| Architectures for big data | Architectures for big data | First | English | CONDORELLI | Master in Computer Science | 6 |
| Artificial intelligence | Artificial intelligence | First | English | PIURI | Master in Computer Science - Informatics Security | 6 |
| Artificial intelligence for video games | Artificial intelligence for video games | Second | English | MAGGIORINI - RIPAMONTI | Master in Computer Science | 6 |
| Artificial vision | Visione artificiale | Second | Italian | LANZAROTTI - PEDERSINI | Master in Computer Science | 6 |
| Audio pattern recognition | Audio pattern recognition | First | English | NTALAMPIRAS | Master in Computer Science | 6 |
| Bioinformatics | Bioinformatics | Second | English | VALENTINI | Master in Computer Science | 6 |
| Biomedical signal processing | Biomedical signal processing | First | English | SASSI | Master in Computer Science | 6 |
| Biometric systems | Sistemi biometrici | First | Italian | SCOTTI | Master in Informatics Security | 6 |
| Business information systems | Business information systems | Second | English | CERAVOLO | Master in Computer Science | 6 |
| Business process | Business process | Second | English | GIANINI | Master in Computer Science | 6 |
| Communication protocols for mobile, ad hoc, and wireless sensors networks | Protocolli per reti ad hoc e di sensori | Second | Italian | PAGANI | Master in Computer Science | 6 |
| Complements of security and privacy | Complementi di sicurezza e privacy | Second | Italian | DE CAPITANI DI VIMERCATI | Master in Informatics Security | 6 |
| Computational | Geometria | First | Italian | ALZATI | Master in Computer Science | 6 |
| Computer forensics | Computer forensics | Second | Italian | FERRAZZANO | Master in Informatics Security - Bachelor Computer Systems and Networks Security | 6 |
| Computing education | Didattica dell'informatica | Second | Italian | LONATI - MORPURGO | Master in Computer Science | 6 |
| Cryptography | Crittografia | Second | Italian | CIMATO | Master in Informatics Security | 6 |
| Decision methods and models | Decision methods and models | First | English | CORDONE | Master in Computer Science | 6 |
| Dependability | Affidabilita' dei sistemi | First | Italian | LAZZARONI | Master in Informatics Security | 6 |
| Development of | Sviluppo di | Second | Italian | MASCETTI | Master in Computer Science | 6 |

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| Digital citizenship and civic activism | Cittadinanza digitale e tecnocivismo | First | Italian | DE CINDIO | Master in Computer Science | 6 |
| Distributed and pervasive systems | Sistemi distribuiti e pervasivi | Second | Italian | BETTINI | Master in Computer Science | 6 |
| Dsp programming and architectures | Architetture e programmazione dsp | First | Italian | MALCANGI | Master in Computer Science | 6 |
| Formal language theory | Teoria dei linguaggi | Second | Italian | PIGHIZZINI | Master in Computer Science | 6 |
| Formal methods | Metodi formali | First | Italian | GHILARDI - MOMIGLIANO | Master in Computer Science | 6 |
| Game design and prototyping | Game design and prototyping | First | English | MAGGIORINI - RIPAMONTI | Master in Computer Science | 6 |
| Geospatial data management | Geospatial data management | First | English | DAMIANI M.L. | Master in Computer Science | 6 |
| Gpu computing | Gpu computing | Second | Italian | GROSSI | Master in Computer Science | 6 |
| Heuristic algorithms | Heuristic algorithms | First | English | CORDONE | Master in Computer Science | 6 |
| Information management | Information management | Second | English | FORESTI - LIVRAGA | Master in Computer Science | 6 |
| Information retrieval | Information retrieval | Second | English | FERRARA | Master in Computer Science | 6 |
| Information system security management | Gestione della sicurezza nei sistemi informativi | Second | Italian | FERRAZZANO | Master in Informatics Security | 6 |
| Intelligent systems for industry, supply chain and environment | Intelligent systems for industry, supply chain and environment | Second | English | SCOTTI | Master in Computer Science | 6 |
| Logic | Logica | First | Italian | CIRIANI | Master in Informatics Security | 6 |
| Logistics | Logistics | Second | English | RIGHINI | Master in Computer Science | 6 |
| Mathematical logic | Mathematical logic | Second | English | CIRIANI | Master in Computer Science | 6 |
| Mathematical logic | Logica matematica | First | Italian | AGUZZOLI | Master in Computer Science | 6 |
| Methods for image processing | Methods for image processing | First | English | FERRARI | Master in Computer Science | 6 |
| Midi programming | Programmazione midi | First | Italian | LUDOVICO | Master in Computer Science | 6 |
| Multimedia architectures | Architetture multimediali | Second | Italian | VALTOLINA | Master in Computer Science | 6 |
| Multimedial techa organization and digitalization | Organizzazione e digitalizzazione di teche multimediali | First | Italian | HAUS | Master in Computer Science | 6 |
| Natural interaction | Natural interaction | First | English | BOCCIGNONE | Master in Computer Science | 6 |
| Network security | Sicurezza delle reti | First | Italian | CIMATO | Master in Informatics Security | 6 |
| Network security ii | Sicurezza delle reti II | First | Italian | ANISSETTI - CIMATO | Master in Informatics Security | 6 |
| NEW GENERATION DATA MODELS AND DBMSs | NEW GENERATION DATA MODELS AND DBMSs | First | English | MESITI | Master in Computer Science | 6 |
| Numerical analysis | Calcolo numerico | Second | Italian | BRESSAN - FERRO . ZAMPIERI | Master in Computer Science | 6 |
| Online game design | Online game design | Second | English | MAGGIORINI - RIPAMONTI | Master in Computer Science | 6 |
| Operational research complements | Operational research complements | First | English | RIGHINI | Master in Computer Science | 6 |

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| Organization | Organizzazione aziendale | First | Italian | VIRILI | Master in Informatics Security | 6 |
| Parallel and distributed algorithms | Algoritmi paralleli e distribuiti | First | Italian | PALANO | Master in Computer Science | 6 |
| Privacy and data protection | Privacy and data protection | Second | English | FORESTI | Master in Computer Science | 6 |
| Privacy and data protection | Privatizza e protezione dei dati | First | Italian | SAMARATI | Master in Informatics Security - Master in Computer Science | 6 |
| Probabilistic methods for informatics | Metodi probabilistici per l'informatica | Second | Italian | GOLDWURM | Master in Computer Science | 6 |
| Processing of sensitive data | Trattamento dei dati sensibili | First | Italian | BONAVITA | Master in Informatics Security | 6 |
| Programming for music | Programmazione per la musica | First | Italian | BARATE' | Master in Computer Science | 6 |
| Real-time graphics programming | Real-time graphics programming | Second | English | GADIA | Master in Computer Science | 6 |
| Risk analysis and management | Analisi e gestione del rischio | First | Italian | | Master in Informatics Security - Master in Computer Science | 6 |
| Security | Sicurezza informatica | Second | Italian | LANZI | Master in Computer Science | 6 |
| Sensor system design | Progetto di sistemi a sensore | First | Italian | PEDERSINI | Master in Computer Science | 6 |
| Service-oriented architecture security | Sicurezza delle architetture orientate ai servizi | Second | Italian | DAMIANI E. | Master in Informatics Security - Master in Computer Science | 6 |
| Simulation | Simulation | Second | English | CESELLI | Master in Computer Science | 6 |
| Software development in complex teams | Sviluppo software in gruppi di lavoro complessi | First | Italian | BELLETTINI - MONGA | Master in Computer Science | 6 |
| Software verification and validation | Verifica e convalida del software | Second | Italian | BELLETTINI - MONGA | Master in Computer Science | 6 |
| Sound in interaction | Sound in interaction | First | Italian | AVANZINI | Master in Computer Science | 6 |
| Statistical methods for machine learning | Statistical methods for machine learning | Second | English | CESA BIANCHI | Master in Computer Science | 6 |
| System modeling and analysis | Modellazione e analisi di sistemi | Second | Italian | RICCOBENE | Master in Informatics Security - Master in Computer Science | 6 |
| Theoretical computer science | Informatica teorica | Second | Italian | MEREGHETTI | Master in Computer Science | 6 |
| Virtual reality | Realtà virtuale | Second | Italian | BORGHESE | Master in Computer Science | 6 |
| Wireless and mobile networks | Reti wireless e mobili | Second | Italian | ROSSI | Master in Computer Science | 6 |

BACHELOR

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|--------------------------------|----------------------------|--------|---------|-----------------------------------|---|----|
| Acoustics | Acustica | Second | Italian | CINGOLANI | Bachelor in Computer Science | 9 |
| Algorithms and data structures | Algoritmi e strutture dati | First | Italian | LONATI - PIGHIZZINI | Bachelor in Computer Science | 12 |
| Algorithms and data structures | Algoritmi e strutture dati | First | Italian | FORESTI | Bachelor in Computer Science | 6 |
| Algorithms and data structures | Algoritmi e strutture dati | First | Italian | FORESTI | Bachelor in Computer Science for New Media Communications | 6 |
| Algorithms and data structures | Algoritmi e strutture dati | First | Italian | DE CAPITANI DI VIMERCATI - FRASCA | Bachelor in Computer Systems and Networks Security | 12 |

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| Algorithms and data structures ii | Complementi di algoritmi e strutture dati | Second | Italian | CESA BIANCHI | Bachelor in Computer Science | 6 |
| Artificial intelligence i | Intelligenza artificiale i | First | Italian | BASILICO | Bachelor in Computer Science | 6 |
| Automata and formal languages | Linguaggi formali e automi | Second | Italian | PALANO | Bachelor in Computer Science | 6 |
| Biometric systems | Sistemi biometrici | First | Italian | SCOTTI | Bachelor in Computer Systems and Networks Security | 6 |
| Computer architecture | Architettura degli elaboratori | Second | Italian | DAMIANI M.L. | Bachelor in Computer Science for New Media Communications | 6 |
| Computer architecture | Architettura degli elaboratori | First | Italian | SCARABOTTOL | Bachelor in Computer Systems and Networks Security | 6 |
| Computer architecture i | Architettura degli elaboratori i | First | Italian | BASILICO - BORGHESE - TRUCCO | Bachelor in Computer Science | 6 |
| Computer architecture i | Architettura degli elaboratori | Second | Italian | DAMIANI M.L. | Bachelor in Music Information Science | 6 |
| Computer architecture ii | Architettura degli elaboratori il | Second | Italian | BASILICO - BORGHESE - TARINI | Bachelor in Computer Science | 6 |
| Computer forensics | Computer forensics | Second | Italian | FERRAZZANO | Bachelor in Informatics Security - Bachelor in Computer Systems and Networks Security | 6 |
| Computer graphics | Computer graphics | Second | Italian | TARINI | Bachelor in Computer Science for New Media Communications | 6 |
| Computer networks | Reti di calcolatori | First | Italian | PAGANI - QUADRI - ROSSI | Bachelor in Computer Science | 12 |
| Computer networks | Reti di calcolatori | First | Italian | PAGANI | Bachelor in Music Information Science | 6 |
| Computer networks | Reti di calcolatori | First | Italian | PAGANI | Bachelor in Computer Science for New Media Communications | 6 |
| Computer networks | Reti di calcolatori | Second | Italian | ARDAGNA - DAMIANI E. | Bachelor in Computer Science - Bachelor in Computer Systems and Networks Security | 12 |
| Computer programming | Programmazione II | First | Italian | AHMETOVIC - BOLDI - CAPRA - CESELLI - MORPURGO - TRENTINI | Bachelor in Computer Science | 12 |
| Computer programming | Programmazione | First | Italian | AHMETOVIC - BOLDI - CAPRA - CESELLI - MORPURGO - TRENTINI | Bachelor in Music Information Science | 12 |
| Computer programming | Programmazione | First | Italian | AHMETOVIC - BIANCHESSI - BOLDI - CAPRA - CASAZZA - CESELLI | Bachelor in Computer Science for New Media Communications | 12 |
| Computer programming | Programmazione | First | Italian | ANISETTI - FERRARI - TRESOLDI | Bachelor in Computer Systems and Networks Security | 12 |
| Computer programming ii | Programmazione | First | Italian | BOLDI - SANTINI | Bachelor in Computer Science | 6 |

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| Computer programming ii | Programmazione ii | First | Italian | BELLETTINI - MONGA | Bachelor in Computer Science for New Media Communications | 6 |
| Computer science applied to music | Informatica applicata alla musica | Second | Italian | HAUS - LUDOVICO - NTALAMPIRAS | Bachelor in Music Information Science | 18 |
| Computer science applied to sound | Informatica applicata al suono | First and second | Italian | AVANZINI - MALCANGI | Bachelor in Music Information Science | 12 |
| Continuum mathematics | Matematica del continuo | First | Italian | GAVATERRA - GORI | Bachelor in Computer Science | 12 |
| Continuum mathematics | Matematica del continuo | First | Italian | PIZZOCCHERO | Bachelor in Music Information Science | 12 |
| Continuum mathematics | Matematica del continuo | First | Italian | MATESSI - RONDI | Bachelor in Computer Science for New Media Communications | 12 |
| Continuum mathematics | Matematica del continuo | First and second | Italian | BENEDIKTER NIELS - LUPERI BAGLINI - MAGGIS | Bachelor in Computer Systems and Networks Security | 12 |
| Cryptography | Crittografia | Second | Italian | CIMATO | Bachelor in Computer Systems and Networks Security | 6 |
| Cryptography i | Crittografia i | First | Italian | VISCONTI | Bachelor in Computer Science - Bachelor in Music Information Science | 6 |
| Cybercrime legal framework | Diritto penale dell'informatica | Second | Italian | DE PONTI | Bachelor in Computer Systems and Networks Security | 6 |
| Databases | Basi di dati | First | Italian | BELLANDI - FERRARE - LIVRAGA - MONTANELLI | Bachelor in Computer Science | 12 |
| Databases | Basi di dati | First | Italian | PERLASCA | Bachelor in Computer Science | 6 |
| Databases | Basi di dati | Second | Italian | LIVRAGA - SAMARATI | Bachelor in Computer Systems and Networks Security | 12 |
| Databases and web | Basi di dati e web | Second | Italian | BETTINI - PERLASCA | Bachelor in Computer Science for New Media Communications | 12 |
| Declarative programming | Programmazione dichiarativa | Second | Italian | FIORENTINI - MOMIGLIANO | Bachelor in Computer Science - Bachelor in Music Information Science | 6 |
| Development of music production technologies | Sviluppo di tecnologie per la produzione musicale | Second | Italian | COEN - PRESTI | Bachelor in Music Information Science | 6 |
| Digital image processing | Elaborazione delle immagini | First | Italian | LANZAROTTI | Bachelor in Computer Science - Bachelor in Music Information Science | 6 |
| Digital marketing | Marketing digitale | Second | Italian | GANZAROLI - PINETTI | Bachelor in Computer Science for New Media Communications | 9 |
| Discrete mathematics | Matematica del discreto | Second | Italian | BERTOLINI - GARBAGNATI - LOMBARDI | Bachelor in Computer Science - Bachelor in Music Information Science | 6 |
| Discrete mathematics | Matematica del discreto | First | Italian | BINDI - LUPERI BAGLINI | Bachelor in Computer Systems and Networks Security | 6 |
| Elements of musical goods economics | Elementi di economia dei beni musicali | Second | Italian | FABBRI | Bachelor in Music Information Science | 6 |
| Elements of musical information law | Elementi di diritto dell'informazione musicale | First | Italian | DEL BENE | Bachelor in Music Information Science | 6 |

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| Embedded systems | Sistemi embedded | Second | Italian | TRENTINI | Bachelor in Computer Science | 6 |
| Fundamentals of digital social media | Fondamenti di social media digitali | Second | Italian | BRUSCHI - ZIGNANI | Bachelor in Computer Science Bachelor in Computer Science for New Media Communications | 6 |
| Human-computer interaction | Interazione uomo-macchina | First | Italian | VALTOLINA | Bachelor in Computer Science for New Media Communications | 6 |
| Information systems | Sistemi informativi | First | Italian | CASTANO | Bachelor in Computer Science Bachelor in Music Information Science | 6 |
| Information technology law | Diritto dei prodotti digitali | Second | Italian | PEDRAZZI | Bachelor in Computer Science for New Media Communications | 6 |
| Languages and compilers | Linguaggi e traduttori | Second | Italian | SANTINI | Bachelor in Computer Science Bachelor in Music Information Science | 6 |
| Mathematical logic | Logica matematica | Second | Italian | AGUZZOLI - FIORENTINI | Bachelor in Computer Science | 6 |
| Mathematical methods for digital communication | Metodi matematici per la comunicazione digitale | Second | Italian | MARRA - VAN GEEMEN | Bachelor in Computer Science for New Media Communications | 6 |
| Methods and technologies of music publishing | Metodologie e tecnologie per l'editoria musicale | First | Italian | MANCINI | Bachelor in Music Information Science | 6 |
| Mobile computing | Mobile computing | First | Italian | MASCETTI | Bachelor in Computer Science for New Media Communications | 9 |
| Model-driven software design | Progettazione model driven del software | First | Italian | BRAGHIN - RICCOBENE | Bachelor in Computer Systems and Networks Security | 6 |
| Models of music perception | Modelli della percezione musicale | Second | Italian | MANCUSO | Bachelor in Music Information Science | 6 |
| Multimedia information | Informazione multimediale | First | Italian | GROSSI - LANZAROTTI | Bachelor in Computer Science Bachelor in Computer Science for New Media Communications | 12 |
| Multimedia project | Progetto multimediale | Second | Italian | RIZZI | Bachelor in Computer Science for New Media Communications | 9 |
| Multimedia publishing | Editoria digitale | First | Italian | ANISETTI | Bachelor in Computer Science Bachelor in Music Information Science | 6 |
| Music semiotics | Semiotica della musica | First | Italian | CATTANEO | Bachelor in Computer Science | 6 |
| New media sociology | Sociologia dei nuovi media | First | Italian | ORLANDI | Bachelor in Computer Science Bachelor in Computer Science for New Media Communications | 6 |
| Operating systems | Sistemi operativi | Second | Italian | DONIDA - GENOVESE - PIURI | Bachelor in Computer Science | 12 |
| Operating systems | Sistemi operativi | First | Italian | MAGGIORINI | Bachelor in Music Information Science | 6 |
| Operating systems | Sistemi operativi | First | Italian | MAGGIORINI | Bachelor in Computer Science for New Media Communications | 6 |
| Operating systems i | Sistemi operativi i | First | Italian | BRUSCHI | Bachelor in Computer Systems and Networks Security | 6 |
| Operating systems ii | Sistemi operativi ii | First | Italian | BRUSCHI - MONGA | Bachelor in Computer Systems and Networks Security | 6 |

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| Operations research | Ricerca operativa | Second | Italian | RIGHINI | Bachelor in Computer Science Bachelor in Music Information Science | 6 |
| Physics | Fisica | First | Italian | COSENTINO LAGORMARSI NO | Bachelor in Computer Science | 6 |
| Principles and models of perception | Principi e modelli della percezione | First | Italian | CASIRAGHI | Bachelor in Computer Science for New Media Communications | 6 |
| Programming languages | Linguaggi di programmazione | First | Italian | CAZZOLA | Bachelor in Computer Science Bachelor in Music Information Science | 6 |
| Scientific visualization | Visualizzazione scientifica | Second | Italian | CASIRAGHI | Bachelor in Computer Science Bachelor in Music Information Science | 6 |
| Secure software design | Progettazione di software sicuro | First | Italian | CIRIANI - RICCOBENE | Bachelor in Computer Systems and Networks Security | 6 |
| Security and privacy | Sicurezza e privacy | First | Italian | BRUSCHI | Bachelor in Computer Science Bachelor in Music Information Science | 6 |
| Signal processing | Elaborazione dei segnali | First | Italian | PEDERSINI | Bachelor in Computer Science Bachelor in Music Information Science | 6 |
| Signal processing | Elaborazione dei segnali | Second | Italian | SASSI | Bachelor in Computer Science for New Media Communications | 6 |
| Social media mining | Social media mining | First | Italian | GAITO - ZIGNANI | Bachelor in Computer Science for New Media Communications | 12 |
| Software engineering | Ingegneria del software | First | Italian | BRAGHIN - CIRIANI - RICCOBENE | Bachelor in Computer Science | 12 |
| Statistics and data analysis | Statistica e analisi dei dati | Second | Italian | MALCHIODI | Bachelor in Computer Science | 6 |
| Statistics and data analysis | Statistica e analisi dei dati | Second | Italian | BOCCIGNONE - CUCULO | Bachelor in Computer Science | 6 |
| Statistics and data analysis | Statistica e analisi dei dati | Second | Italian | BOCCIGNONE - CUCULO | Bachelor in Computer Science for New Media Communications | 6 |
| Statistics and data analysis | Statistica e analisi dei dati | First | Italian | BOCCIGNONE - CUCULO | Bachelor in Computer Systems and Networks Security | 6 |
| System and network security | Sicurezza dei sistemi e delle reti | First | Italian | ANISSETTI - CIMATO | Bachelor in Computer Systems and Networks Security | 12 |
| Tecnologies and languages for web | Tecnologie e linguaggi per il web | Second | Italian | CERAVOLO | Bachelor in Computer Science | 6 |
| Web and cloud applications | Applicazioni web e cloud | First | Italian | ARDAGNA - BELLANDI | Bachelor in Computer Science for New Media Communications | 6 |
| Web and mobile programming | Programmazione web e mobile | Second | Italian | CERAVOLO | Bachelor in Computer Systems and Networks Security | 6 |
| Web and mobile systems security | Sicurezza nei sistemi web e mobili | Second | Italian | BRAGHIN | Bachelor in Computer Systems and Networks Security | 6 |
| Web programming | Programmazione per il web | First | Italian | MESITI | Bachelor in Music Information Science | 6 |