

OVERVIEW PARTICIPATING STUDY M-CS

This document gives an overview of courses indicating M-CS as participating programme. Participating studies is a field indicated by the programme offering the course (coordinating unit). This means that not all courses are automatically suited to CS or all CS students, nor are you automatically allowed to take part. Always check the prerequisites and course description, and if in doubt consult your programme mentor or contact the teacher (depending on the question) Another way to find CS related courses that might not be on this overview, is to use the 'offered by...' field in the Osiris course catalogue (www.utwente.nl/coursecatalogue) with related programmes, like for example other EEMCS Masters ROB, ITECH, BIT, EMSYS, EE or AM.

Courses indicated as 'draft' can still change during the year. Courses exclusively offered for EngD or EIT Digital Masterschool students are not on the list below.

Q1

Course	Academic Short name	Status	credits	Coordinating	Long name (English)	Remark	OSIRIS Quarter	
202600269	2026 Advanced Networking	Final	5	M-CS	Advanced Networking	Max 16 students. Previously 201700077	Yes	1
202500264	2026 Applied Statistical Learning	Final	5	M-IEM	Applied Statistical Learning		Yes	1
202600311	2026 Computing and Communications Continuum	Final	5	M-CS	Computing and Communications Continuum		Yes	1
202600274	2026 Cyber Risk Management	Final	5	M-CS	Cyber Risk Management		Yes	1
202500500	2026 Economics of Cyber Security	Final	5	M-BIT	Economics of Cyber Security		Yes	1
202300078	2026 Embedded Computer Architectures 1	Final	5	M-EMSYS	Embedded Computer Architectures 1	Previously 192130240	Yes	1
201400277	2026 Enterprise Architecture	Final	5	M-BIT	Enterprise Architecture		Yes	1
202600273	2026 FAIR Data Engineering	Final	5	M-CS	FAIR Data Engineering	Previously 202100258	Yes	1
202600426	2026 Foundations of Information Retrieval	Final	5	M-ITECH	Foundations of Information Retrieval	Previously 201600076	Yes	1
202600277	2026 Green Software Development	Final	5	M-CS	Green Software Development	Previously 202400609	Yes	1
202600268	2026 Internet of Things for EEMCS	Final	5	M-CS	Internet of Things		Yes	1
202600265	2026 Limits to Computing	Final	5	M-AM	Limits to Computing		Yes	1
202500276	2026 Machine Learning I	Final	5	M-ITECH	Machine Learning I	Previously 201600070	Yes	1
202600263	2026 Model Driven Engineering	Final	5	M-CS	Model Driven Engineering		Yes	1
192135310	2026 Modeling & Analysis Concurrent Systems	Final	5	M-CS	Modeling and Analysis of Concurrent Systems		Yes	1
202500277	2026 Natural Language Processing	Final	5	M-ITECH	Natural Language Processing		Yes	1
202600271	2026 Secure Cloud Computing	Final	5	M-CS	Secure Cloud Computing		Yes	1
202600275	2026 Security and Cryptography	Final	5	M-CS	Security and Cryptography	Previously 201500027 and 202300045	Yes	1
202300064	2026 Simulation	Final	5	M-IEM	Simulation		Yes	1
202600279	2026 System Validation	Final	5	M-CS	System Validation	Previously 192140122	Yes	1
202400588	2026 Wireless Communication Systems	Final	5	M-EE	Wireless Communication Systems	Previously 202300100, and 202100101	Yes	1

Semester

Course	Academic Short name	Status	credits	Coordinating	Long name (English)	Remark	OSIRIS Quarter	
202600308	2026 BB Sustainable Comp Systems Practice	Final	5	M-CS	Building Blocks for Sustainable Computing Systems Practice		Yes	SEM1
202500373	2026 BB Sustainable Comp Systems Theory	Final	5	M-CS	Building Blocks for Sustainable Computing Systems Theory		Yes	SEM1
202600281	2026 Industrial Software Engineering Project	Final	10	M-CS	Industrial Software Engineering Project		Yes	SEM1
191210750	2026 System-on-Chip Design	Final	10	M-EE	System-on-Chip Design		Yes	SEM1
191211590	2026 System-on-Chip for Embedded Systems	Final	5	M-EE	System-on-Chip for Embedded Systems		Yes	SEM1

Q2

Course	Academic Short name	Status	credits	Coordinating	Long name (English)	Remark	OSIRIS Quarter	
201600083	2026 AP in Information Retrieval	Verified d	5	M-ITECH	Advanced Project in Information Retrieval		Yes	Q2
192320111	2026 Architecture of Information Systems	Verified d	5	M-BIT	Architecture of Information Systems		Yes	Q2
202600333	2026 Cloud Networking	Verified d	5	M-CS	Cloud Networking	Maximum 18 students. Previously 201400177	Yes	Q2
191612680	2026 Computer Ethics	Final	5	M-PSTS	Computer Ethics		Yes	Q2
202200104	2026 Control System Design for Robotics	Final	5	M-ROB	Control System Design for Robotics		Yes	Q2
202600497	2026 Deep Learning - From Theory to Practice	Final	5	M-AM	Deep Learning - From Theory to Practice	Previously 201800177.	Yes	Q2
202600331	2026 Design of Software Architectures	Verified d	5	M-CS	Design of Software Architectures	Previously 192111332	Yes	Q2

202200149	2026 eHealth Technology	Draft	5	M-HS	eHealth Technology for Remote Patient Monitoring	Previously 201600028	Yes	Q2
192320501	2026 Electronic Commerce	Verified d	5	M-BIT	Electronic Commerce		Yes	Q2
202200159	2026 Embedded AI	Final	5	M-EMSYS	Embedded Artificial Intelligence		Yes	Q2
192130250	2026 Embedded Computer Architectures 2	Final	5	M-EMSYS	Embedded Computer Architectures 2		Yes	Q2
202600336	2026 Empirical Security Analysis Engineering	Final	5	M-CS	Empirical Security Analysis and Engineering	Collab with Münster. Travel required. Previously 202100073	Yes	Q2
202500327	2026 GenAI Models and Robotic Applications	Verified d	5	M-ROB	Generative Artificial Intelligence Models and Robotic Applications		Yes	Q2
201900082	2026 Graph Algorithms and Complexity	Final	5	M-CS	Graph Algorithms and Complexity		Yes	Q2
202001552	2026 Human Factors and Organization Design	Draft	5	M-IEM	Human Factors and Organizational Design in Socio-	Maximum of 35 students is set.	Yes	Q2
202300099	2026 Instrumentation for Embedded Systems	Final	5	M-EMSYS	Instrumentation for Embedded Systems	Homologation course EMSYS. Previously 191210001	Yes	Q2
202600337	2026 Interactive Theorem Proving	Verified d	5	M-CS	Interactive Theorem Proving	Previously 202100126	Yes	Q2
201500040	2026 Introduction to Biometrics	Final	5	M-EE	Introduction to Biometrics		Yes	Q2
201600071	2026 Machine Learning II	Verified d	5	M-ITECH	Machine Learning II		Yes	Q2
202600332	2026 Managing Big Data	Final	5	M-CS	Managing Big Data	Previously 201200044. Max is set to 144	Yes	Q2
202300220	2026 Markov Decision Theory & Algorith. Meth.	Final	5	M-AM	Markov Decision Theory and Algorithmic Methods	Previously 191531920	Yes	Q2
201300060	2026 Mathematical Finance	Final	5	M-IEM	Mathematical Finance		Yes	Q2
192620300	2026 Performance Evaluation	Final	5	M-CS	Performance Evaluation		Yes	Q2
202600338	2026 PET bootcamp	Verified d	5	M-CS	Privacy Enhancing Technologies bootcamp	Previously 201500042, 202300046	Yes	Q2
202500371	2026 Philosophy Symbolic Systems, AI Robotics	Final	5	M-CS	Philosophy of Symbolic Systems, AI, and Robotics	Moved from Q1 naar Q2	Yes	Q2
202600339	2026 Quantum Computing & Post-Quant.Cryptogr.	Final	5	M-CS	Quantum Computing and Post-Quantum Cryptogra	Previously 202500372	Yes	Q2
202600334	2026 Software Security	Final	5	M-CS	Software Security	Previously 201600051	Yes	Q2
202500280	2026 Speech Processing	Final	5	M-ITECH	Speech Processing	Previously 201600075.	Yes	Q2
202600350	2026 Topics in Data Science	Verified d	5	M-CS	Topics in Data Science	Previously 202500300.	Yes	Q2
202600490	2026 Creative Intelligence	Final	5	ET	Creative Intelligence	Note! Not combined with 202600489 and 202400594. Only one TDMI	Yes	Q2

Q3

Course	Academic Short name	Status	credits	Coordinating	Long name (English)	Remark	OSIRIS	Quarter
201700196	2026 Advanced Discrete Event Simulation	Verified d	5	M-IEM	Advanced Discrete Event Simulation		Yes	Q3
202400681	2026 AI- and Image-guided Robotics	Verified d	5	M-ROB	AI- and Image-guided Robotics: From Theory to Medical Applications		Yes	Q3
202600344	2026 Blockchain and Distr. Ledger Technology	Verified d	5	M-CS	Blockchain and Distributed Ledger Technology	Previously 201700079	Yes	Q3
202500463	2026 Deep Learning for Medical Image Analysis	Verified d	5	M-AM	Deep Learning for 3D Medical Image Analysis	Previously 202100107	Yes	Q3
202001492	2026 Design Thinking for Serv. Bus. Innov.	Verified d	5	M-IDE	Design Thinking for Service and Business Innovation		Yes	Q3
202000029	2026 Empirical and Design Science Research	Verified d	5	M-BIT	Empirical and Design Science Research in Information Systems		Yes	Q3
202600348	2026 Graph Transformations	Verified d	5	M-CS	Graph Transformations (Software Science)	Intended to be on offer every two years. Next in 2026-2027	Yes	Q3
191210950	2026 IDSP	Verified d	5	M-EE	Implementation of Digital Signal Processing		Yes	Q3
202600160	2026 Information Systems Fin Services Ind	Verified d	5	M-BA	Information Systems for the Financial Services Industry		Yes	Q3
202600345	2026 Information Theory and Statistics	Verified d	5	M-CS	Information Theory and Statistics	Previously 201700080	Yes	Q3
202600343	2026 Internet Security	Final	5	M-CS	Internet Security	Previously 201700074	Yes	Q3
202600352	2026 Linked Data and Semantic Web	Verified d	5	M-CS	Linked Data and Semantic Web	Previously 202100263	Yes	Q3
191581420	2026 Mixed-Integer Optimization	Verified d	5	M-AM	Mixed-Integer Optimization		Yes	Q3
202600341	2026 Mobile and Wireless Networking	Verified d	5	M-CS	Mobile and Wireless Networking	Previously 192620010	Yes	Q3
202600354	2026 Multimodal Machine Learning	Final	5	M-CS	Multimodal Machine Learning	Previously 202500374	Yes	Q3
202600351	2026 Pervasive Computing	Verified d	5	M-CS	Pervasive Computing	Previously 202100244	Yes	Q3
202600346	2026 Probabilistic Programming	Final	5	M-CS	Probabilistic Programming	Previously 201700081	Yes	Q3
202600349	2026 Program Verification	Final	5	M-CS	Program Verification (Software Science)	Intended to be on offer every two years. Next in 2027-2028. Previously 202100115	Yes	Q3
202300109	2026 Quantitative Evaluation of Systems	Verified d	5	M-CS	Quantitative Evaluation of Systems	Previously 201200006	Yes	Q3
201600040	2026 Requirements Engineering Processes	Verified d	5	M-CS	Requirements Engineering Processes and Methods	Moved from Q2 to Q3	Yes	Q3
202400613	2026 Security Experiments - Part I	Verified d	5	M-BIT	Security Experiments - Part I - Modelling Cyber Threats		Yes	Q3
202600342	2026 Service-oriented Architecture Web Serv.	Verified d	5	M-CS	Service-oriented Architecture with Web services	Maximum 100 students. Previously 192652150	Yes	Q3
202600347	2026 STAR	Verified d	5	M-CS	Software Testing and Risk Assessment	Previously 202001472	Yes	Q3

202600330	2026 Steganography & Data Forensics	Verified d	5	M-BIT	Steganography and Data Forensics in Cybersecurity Previously 202300300	Yes	Q3	
201300062	2026 Structured Products	Verified d	5	M-IEM	Structured Products	Yes	Q3	
202600350	2026 Topics in Data Science	Verified d	5	M-CS	Topics in Data Science	Previously 202500300.	Yes	Q3
202100108	2026 UQ & Data-driven Modeling	Verified d	5	M-AM	Uncertainty Quantification & Data-driven Modeling		Yes	Q3
202400594	2026 Responsible Futuring	Final	10	ET	Responsible Futuring	Note! Not combined with 202600489 and 202600490. Only one TDMI		Q3

Q4

Course	Academic Short name	Status	credits	Coordinating	Long name (English)	Remark	OSIRIS	Quarter
202300066	2026 5G/6G ComSens	Verified d	5	M-EE	5G/6G Communication and Sensing Channels	Previously 191211030 Wireless Propagation Channels	Yes	Q4
201100254	2026 Adv. Comp. Vision & Pattern Recognition	Verified d	5	M-EE	Advanced Computer Vision and Pattern Recognition		Yes	Q4
202600312	2026 Advanced Computer Systems	Verified d	5	M-CS	Advanced Computer Systems		Yes	Q4
202600355	2026 Advanced Logic	Verified d	5	M-CS	Advanced Logic	Previously 192111092	Yes	Q4
202300047	2026 AI for Security	Verified d	5	M-CS	AI for Security	Previously 201500037. Former: Cyber Data Analytics	Yes	Q4
202600366	2026 Autom. Vulnerability Res. and Mitigation	Verified d	5	M-CS	Automated Vulnerability Research and Mitigation	Max number of participants 25. Previously 202400121	Yes	Q4
192130022	2026 Design of Digital Systems	Verified d	5	M-EMSYS	Design of Digital Systems		Yes	Q4
202600356	2026 Distributed Systems	Verified d	5	M-CS	Distributed Systems	Previously 192130112	Yes	Q4
201500038	2026 E-Law	Verified d	5	M-CS	E-Law	Remindo test	Yes	Q4
202600365	2026 Explainable AI	Verified d	5	M-CS	Explainable AI	Previously 202300336	Yes	Q4
202500375	2026 Foundation Models	Verified d	5	M-CS	Foundation Models		Yes	Q4
202001186	2026 Functional Programming	Verified d	5	B-TCS	Functional Programming	part of B-TCS-MOD08A Programming Paradigms only after explicit permission from programme mentor	Yes	Q4
202100112	2026 Graphical Models and Causality	Verified d	5	M-AM	Graphical Models and Causality	re-sit in 1A - next academic year	Yes	Q4
202600362	2026 Internet Measurements	Verified d	5	M-CS	Internet Measurements	Previously 202001579	Yes	Q4
202500551	2026 LLMs for Business Applications	Verified d	5	M-BIT	Large Language Models for Business Applications		Yes	Q4
202600364	2026 Model Checking and Parity Games	Verified d	5	M-CS	Model Checking and Parity Games (Software Scienc	On offer every two years. Next in 2027-2028. Previously 202100116	Yes	Q4
202100291	2026 Ontology-Driven Conceptual Modeling	Verified d	5	M-BIT	Ontology-Driven Conceptual Modeling with Applications		Yes	Q4
202600363	2026 Probabilistic Model Checking	Verified d	5	M-CS	Probabilistic Model Checking (Software Science)	On offer every two years. Next in 2026-2027. Previously 202100113	Yes	Q4
202600358	2026 REDI	Verified d	5	M-CS	Research Experiments in Databases and Informatio	Maximum 24 students. Previously 201300074	Yes	Q4
202100109	2026 Reinforcement Learning	Verified d	5	M-AM	Reinforcement Learning		Yes	Q4
202400614	2026 Security Experiments - Part II	Verified d	5	M-BIT	Security Experiments - Part II - Execution and Analysis		Yes	Q4
202600360	2026 Security Services for IoT	Verified d	5	M-CS	Security Services for the Internet of Things	Remindo test was 201700083	Yes	Q4
202600359	2026 Software Evolution	Verified d	5	M-CS	Software Evolution	Remindo test was 201400225	Yes	Q4
192340041	2026 Software Management	Verified d	5	M-BIT	Software Management		Yes	Q4
201700364	2026 Spatial Statistics	Verified d	5	M-AM	Spatial Statistics		Yes	Q4
202600310	2026 Sustainable Wireless Networks	Final	5	M-CS	Sustainable Wireless Networks	Maximum of 16 students. Previously Ad-Hoc Networks 201700073	Yes	Q4
202600361	2026 System Security	Verified d	5	M-CS	System Security	Previously 201700086	Yes	Q4
191571090	2026 Time Series Analysis	Verified d	5	M-AM	Time Series Analysis		Yes	Q4
202600489	2026 Leading Systemic Change	Final	5	ET	Leading Systemic Change	Note! Not combined with 202400594 and 202600490. Only one TDMI	Yes	Q4

YEAR

Course	Academic Short name	Status	credits	Coordinating	Long name (English)	Remark	OSIRIS	Quarter
191158500	2026 APIE	Final	5	M-ME	Advanced Programming in Engineering	Not suitable for CS, discuss with programme mentor	Yes	YEAR
202200251	2026 Capita Selecta DST	Final	5	M-CS	Capita Selecta Data Science and Technology		Yes	YEAR
201400171	2026 Capita Selecta ST	Final	5	M-CS	Capita Selecta Software Technology		Yes	YEAR
192199968	2026 Internship CS	Final	20	M-CS	Internship Computer Science		Yes	YEAR
202400656	2026 Programming in Engineering	Final	1	M-ME	Programming in Engineering	Not suitable for CS, discuss with programme mentor	Yes	YEAR
202600267	2026 Security Verification	Final	5	M-CS	Security Verification		Yes	YEAR