

Category 2: Data Science

TU Delft

University/Faculty	Period	Level	Course Code	ECTS	Course Title	Study Guide
TPM						
TU Delft - TPM	Q1	Master	EPA1316	5	Introduction to Data Science NOTE: This should be only for non EPA students	Link
TU Delft - TPM	Q2	Bachelor	TB242IA	5	Intelligente data-analyse NOTE: This should be only for TB students outside I&C Domain	Link
TU Delft - TPM	Q2	Master	EPA1315	5	Data Analytics & Visualization NOTE: This should be only for non EPA students	Link
TU Delft - TPM	Q3	Master	SEN163A	5	Fundamentals of Data Analytics NOTE: This should be only for TPM students outside I&C Track (CoSEM)	Link
OTHER FACULTIES						
TU Delft - EWI	Q1	Bachelor (Minor)	WI3411TU	4	Time Series	Link
TU Delft - EWI	Q1	Bachelor	CSE2525	5	Data Mining	Link
TU Delft - EWI	Q1	Bachelor	CSE2520	5	Big Data Processing	Link
TU Delft - CEG	Q1	Master	CIE4616	5	Remote Sensing and Big Data	Link
TU Delft - EWI	Q1	Master	IN4307	5	Medical Visualization	Link
TU Delft - EWI	Q1	Master	ET4310	5	Supercomputing for Big Data	Link
TU Delft - EWI	Q12	Master	CS4070	5	Multivariate Data Analysis	Link
TU Delft - TNW	Q123	Bachelor	TN1405-P	6	Inleidend Practicum	Link
TU Delft - EWI	Q2	Bachelor (Minor)	TI3130TU	5	Data Analytics	Link

TU Delft - EWI	Q2	Bachelor (Minor)	TI3135TU	5	Visual Data Processing	Link
TU Delft - IO	Q2	Bachelor (Minor)	IO3819	5	Urban Data Science	Link
TU Delft - EWI	Q2	Master	IN4086-14	6	Data Visualization	Link
TU Delft - EWI	Q2	Master	CS4055	5	High Performance Data Networking	Link
TU Delft - EWI	Q3	Master	CS4195	5	Modeling and Data Analysis in Complex Networks	Link
TU Delft - EWI	Q3	Master	IN4325	5	Information Retrieval	Link
TU Delft - EWI	Q4	Master	CS4125	5	Seminar Research Methodology for Data Science	Link
TU Delft - EWI	Q4	Master	IN4255	5	Geometric Data Processing	Link
TU Delft - EWI	Q4	Master	CS4035	5	Cyber Data Analytics	Link

Other Dutch Universities

University/Faculty	Period	Level	Course Code	ECTS	Course Title	Study Guide
Leiden University	Q12	Master	4343ADVDM	6	Advances in Data Mining	Link
Leiden University	Q34	Bachelor	4031ALGOE	6	Algorithms and Data Structures	Link
Leiden University	Q1234	Master	6464EL01	5	Applied Data Analysis	Link
Leiden University	Q4	Master		5	Crime, Data, and Ethics: The Application of Computational Research Methods in Criminology	Link
Leiden University	Q34	Master	4343SPDSC	6	Sports Data Science	Link
Leiden University	Q1	Bachelor	22989275	5	Privacy & Data Protection	Link
Leiden University	Q34	Bachelor	4032KIBDS	6	Introduction to Behavioural Data Science	Link
Leiden University	Q2	Master	24201022	5	Internet Privacy and EU Data Protection	Link
Leiden University	Q1	Master	4353DDPM3	3	Data-driven Policy Making	Link
Leiden University	Q12	Master	5990HC015	5	Big data: Philosophical perspectives on the algorithmic turn	Link
Tilburg University / TU Eindhoven		Bachelor	JBG000-B-5	5	Data Science Ethics	Link
Tilburg University		Bachelor	30K217-B-6	6	Advancing Society: Digitization and Big Data Analytics	Link

Tilburg University		Master	310170-M-6	6	Seminar Data Science for Economics	Link
Tilburg University		Master	323101-M-6	6	Information Systems and Data Analytics	Link
Tilburg University		Bachelor	323624-B-6	6	Data-Analysis	Link
Tilburg University		Bachelor	325223-B-6	6	Marketing Analytics for Big Data	Link
Tilburg University		Master	35M1C7-M-6	6	Panel Data Analysis of Microeconomic Decisions	Link
Tilburg University		Master	35M2C6-M-6	6	Data Science Methods	Link
Tilburg University		Bachelor	390950-B-6	6	Data Communication and Policy Analysis	Link
Tilburg University		Master	400940-M-3	3	ReMa-IDA: Ethics and Data Management	Link
Tilburg University		Master	424301-M-6	6	Causal Analysis in Data Science	Link
Tilburg University		Master	424805-M-6	6	RM: Categorical Data Analysis	Link
Tilburg University		Bachelor	500189-B-6	6	Introduction to Data Science	Link
Tilburg University		Master	500875-M-6	6	Consumer Analytics Using Big Data	Link
Tilburg University		Master	620040-M-6	6	Privacy and Data Protection	Link
Tilburg University		Master	620087-M-6	6	Data Science Regulation & Law	Link
Tilburg University		Master	620088-M-6	6	Data science: sustainability, privacy and security	Link
Tilburg University		Master	880003-M-6	6	Data and (mis)information	Link
Tilburg University		Master	880022-M-6	6	Data Mining for Business and Governance	Link
Tilburg University		Master	880262-M-6	6	A Theoretical Approach to Data and (Mis)information	Link
Tilburg University		Bachelor	JBG010-B-5	5	Perspectives on Data Science	Link
Tilburg University		Bachelor	JBG040-B-5	5	Data Challenge 1	Link
Tilburg University		Bachelor	JBG050-B-5	5	Data Challenge 2	Link
Tilburg University		Bachelor	JBG060-B-5	5	Data Challenge 3	Link
Tilburg University		Bachelor	JBI030-B-5	5	Data Mining	Link
Tilburg University		Bachelor	JBM020-B-5	5	Data Science Research Methods	Link
Tilburg University		Bachelor	JBM035-B-5	5	Linear Optimization for Data Science	Link
Tilburg University		Bachelor	JBM090-B-5	5	Combinatorial Optimization for Data Science	Link
Tilburg University		Bachelor	JBM150-B-5	5	Risk Management and Data Protection	Link

Tilburg University		Master	JM0280-M-6	6	Data-Driven Food Value Chain	Link
Tilburg University		Master	JM2000-M-6	6	Servitization and Data-Driven Innovation	Link
Tilburg University		Master	JM2080-M-6	6	Social Network Analysis for Data Scientists	Link
Tilburg University		Master	320092-M-6	6	Business Intelligence and Data Management	Link
TU Eindhoven / Tilburg University		Bachelor	JBL120-B-5	5	Law and Data Science	Link1 Link 2
TU Eindhoven / Tilburg University		Bachelor	JBM040-B-5	5	Business Analytics	Link1 Link2
TU Eindhoven		Bachelor	2IAB0		Data analytics for engineers	Link
TU Eindhoven		Bachelor	2IIG0		Data Mining and Machine Learning	Link
Tilburg University		Master	JM0100-M-6	6	Business Analytics	Link
University of Twente		Bachelor	202000293	5	Big data analytics (R)	Link
University of Twente		Master	201200044	5	Managing Big Data	Link
University of Twente		Master	201400174	5	Data Science	Link
University of Twente		Master	201500363	5	Data Science Additional Topics	Link
Wageningen University		Bachelor/ Master	INF-34306	6	Data Science Concepts	Link
Wageningen University		Master	BIF-31806	6	Data Driven Discovery in the Life Sciences: Hypothesis Generation from Omics Data	Link
Wageningen University		Master	INF-33806	6	Big Data	Link
Wageningen University		Master	CPT-30503	3	Data Science Ethics	Link
Wageningen University		Master	MAT-32806	6	Statistics for Data Scientists	Link
Wageningen University		Bachelor/ Master	AEP-21306	6	Econometrics	Link
Wageningen University		Master	GRS-35306	6	Data Science for Smart Environments	Link

Wageningen University		Master	REG-33806	6	Data Science for Ecology	Link
Wageningen University		Master	BEC-55306	6	Big Data for Business Decisions	Link
Wageningen University		Master	CHL-34303	3	Data Science for Health I	Link
Wageningen University		Master	HNH-32603	3	Data Science for Health II	Link
Wageningen University		Master	MAT-33306	6	Data Science for Breeding and Genetics	Link
Wageningen University		Bachelor	YRM-21806	6	Data Analysis for Health and Society	Link
Wageningen University		Master	YWU-30806	6	Environmental Data Collection and Analysis	Link
Wageningen University		Master	CSA-34306	6	Ecological Modelling and Data Analysis in R	Link
University of Amsterdam		Master	5294DDBI6Y	6	Data-Driven Business Innovation and Entrepreneurship	Link
University of Amsterdam		Master	52848DAM6Y	6	Data Mining Techniques	Link
University of Amsterdam		Master	158621096Y	6	Applications of Cultural and Social Data Analysis	Link
University of Amsterdam		Bachelor	158621096Y	6	Behavioural data science / Propaedeutic Thesis	Link
University of Amsterdam		Master	7204MM25XY	6	Behavioural Data Science Toolbox	Link
University of Amsterdam		Master	776500110Y	12	Big Data & Automated Content Analysis, Part I & II	Link
University of Amsterdam		Bachelor	900156ACCY	6	Big Data	Link
University of Amsterdam		Master	5294BIDA6Y	6	Big Data	Link
University of Amsterdam		Master	7204MM17XY	6	Big Data Analytics	Link

University of Amsterdam		Master	776500115Y	6	Big Data and Automated Content Analysis	Link
University of Amsterdam		Master	6614ZD017Y	4	Big Data Infrastructures & Technology	Link
University of Amsterdam		Master	5274CDTF6Y	6	Cybercrime, Digital Traces and Forensic Data Analysis	Link
University of Amsterdam		Master	6314M0402Y	6	Data Analytics & Professional Skills	Link
University of Amsterdam		Master	4604MM104Y	5.5	Data driven decision making and evaluation in medicine	Link
University of Amsterdam		Master	6314M0371Y	6	Data Science for Business	Link
University of Amsterdam		Master	6414M0320Y	5	Data Science Methods	Link
University of Amsterdam		Master	6012B0417Y	6	Data Wrangling	Link
University of Amsterdam		Master	5294DDBI6Y	6	Data-Driven Business Innovation and Entrepreneurship	Link
University of Amsterdam		Master	5334DDDM6Y	6	Data-driven Decision Making in Operations Research	Link
University of Amsterdam		Master	118221056Y	6	Data-Driven Research	Link
University of Amsterdam		Master	52248ECD6Y	6	Ecological Data Analysis	Link
University of Amsterdam		Master	52848EDD6Y	6	Experimental Design and Data Analysis	Link
University of Amsterdam		Master	158621086Y	6	Foundations of Cultural and Social Data Analysis	Link
University of Amsterdam		Master	5294FUDS6Y	6	Fundamentals of Data Science	Link
University of Amsterdam		Master	4604MM102Y	6	Fundamentals of data science in medicine	Link
University of Amsterdam		Master	6614ZD005Y	2	Law & Ethics for Big Data	Link

University of Amsterdam		Master	6414M0327Y	5	Non-Life Insurance: Statistical Techniques and Data Analytics	Link
University of Amsterdam		Master	900355SSCY	6	Political Communication and Data Analytics	Link
University of Amsterdam		Master	136211216Y	6	Privacy in Public: Big Data, Self Tracking, Social Networks	Link
University of Amsterdam		Master	776500203Y	3	Research & Data Ethics	Link
University of Amsterdam		Master	4604MM113Y	6	Special topics in data science in medicine	Link
Maastricht University	P4	Bachelor	KEN3450	4	Data Analysis	Link
Maastricht University	P4	Bachelor	EBC1046	6.5	Data-Driven Decision Theory	Link
Maastricht University	P4	Bachelor	EBC1047	6.5	Marketing and Business Analytics	Link
Maastricht University	P4	Bachelor	EBC1047	6.5	Knowledge Discovery and Data Visualization	Link
Maastricht University	P1	Bachelor	DSO1506	6	Quantitative Data Analysis	Link
Maastricht University	P3	Bachelor	DSO2003	5	Working with Big Data	Link
Maastricht University	P5	Bachelor	EBC2111	6.5	Econometric Methods I	Link
Maastricht University	P4	Bachelor	EBC2120	6.5	Econometric Methods II	Link
Maastricht University	P3	Bachelor	EBS2043	4	Introduction to Software in Econometrics, Operations Research and Actuarial Science	Link
Maastricht University	P5	Bachelor	EBC2061	6.5	ERP and Business Intelligence Systems	Link
Maastricht University	P1	Bachelor	EBC1006	6.5	Quantitative Methods I	Link
Maastricht University	P4	Bachelor	EBC1034	6.5	Quantitative Methods II	Link

Maastricht University	P4	Bachelor	EBC2011	6.5	Quantitative Methods III	Link
Maastricht University	P6	Bachelor	EPH1026	6	Introduction to Statistical Methods for Data Analysis	Link
Maastricht University (UCM)	P4	Bachelor	SCI2033	5	Datamining	Link (pp. 80)
Maastricht University (UCM)	P5	Bachelor	SCI2033	5	Data Analytics	Link (pp. 97)
Maastricht University (Venlo)	P1	Bachelor	VSC3301	5	Data Mining	Link
Maastricht University (Venlo)	P2	Bachelor	VSC1303	5	Introduction to Statistical Methods and Data Analysis	Link
Maastricht University (Venlo)	P5	Bachelor	VSC2305	5	Intermediate Statistical Methods and Data Analysis	Link
Maastricht University	P4	Master	KEN4254	6	Algorithms for Big Data	Link
Maastricht University	P4	Master	EBC4223	4	Analysing Unstructured Data	Link
Maastricht University	P5	Master	EBC4222	5	Descriptive and Predictive Analytics	Link
Maastricht University	P2	Master	EBC4008	6.5	Time Series Methods and Dynamic Econometrics	Link
Maastricht University	P4	Master	EBC4218	6.5	High-Dimensional Econometric Methods for Big Data	Link
Maastricht University	P3	Master	EBC4218	4	Data Analysis Skills	Link
Maastricht University	P1	Master	EBC4263	6.5	Data Analytics (Accounting/Finance/Strategy)	Link
Maastricht University	P1	Master	EBC4264	6.5	Data Analytics (IMBI/SCM)	Link
Maastricht University	P1	Master	EBC4265	6.5	Data Analytics (Entrepreneurship/Marketing/Organisation)	Link
Maastricht University	P2	Master	EBC4107	6.5	Business Intelligence Case Studies	Link

Maastricht University	P4	Master	EBC4051	6.5	Modelling and Solver Technology	Link
Maastricht University	S1	Master	KEN4230	6	Research Project DSDM 1	Link
Maastricht University	S2	Master	KEN4231	6	Research Project DSDM 2	Link
Radboud University	S1	Bachelor	MED-B3KOB	3	Advanced data analysis and programming: How to make more of your results?	Link
Radboud University	S1	Bachelor	LET-LETMI-TH06A	1	Assignment Data Science	Link
Radboud University	S2	Bachelor	NWI-IBC036	6	Big Data	Link
Radboud University	Q4	Master	NWI-NM067B	3	Data Analysis	Link
Radboud University	Q4	Bachelor	SOW-PSB2RS20E	4	Data Analysis	Link
Radboud University	Q1		LET-ACWB209	5	Data in Culture and Society	Link
Radboud University	S1	Bachelor	NWI-IBI008	6	Data Mining	Link
Radboud University	S2	Bachelor/ Minor	NWI-IBC045	6	Data Science Project	Link
Radboud University	Q1		NWI-BB083B	6	Ecological Theory and Data Analysis	Link
Radboud University	S2	Master	NWI-IMC044	6	Research Seminar Data Science	Link
Radboud University	Q1		LET-LETMI-TH06	6	Theme course: Data and Society	Link
Radboud University	S2	Bachelor/ Minor	LET-LETMI-DT06	10	Think tank: Data and Society	Link
Radboud University	Q2	Bachelor	NWI-MOL152	3	Data: Bioinformatics	Link
Radboud University	Q1	Bachelor/ Minor	NWI-IBC044	3	Mathematics for Data Science	Link
Radboud University	Q2	Master	NWI-IMI003	3	Philosophy and Ethics for Computing and Information Science	Link
Radboud University	S1	Master	LET-REMA-LCEX06	6	Text and Multimedia Mining	Link

Radboud University	S1	Master	LET-REMA-LCEX06	6	Text and Multimedia Mining	Link
Radboud University	S1	Master	NWI-I00041	6	Information Retrieval	Link
Radboud University	Q1	Master	SOW-SCS211	6	Social Networks	Link
University of Groningen	Q2	Bachelor	WBBY027-05	5	Big Data in Human Disease	Link
University of Groningen	Q3	Bachelor	WBBY028-05	5	Big Data Management in Ecology and Evolution	Link
University of Groningen	Q1	Master	WMEE001-05	5	Data analysis and statistical methods	Link
University of Groningen	Q2	Bachelor	WBAI011-05	5	Data Analytics and Communication	Link
University of Groningen	Q4	Master	WMME011-05	5	Data-driven optimization	Link
University of Groningen	Q1	Master	WMCS002-05	5	Introduction to Data Science	Link
University of Groningen	Q1	Master	WMME027-05	5	Introduction to Data Science	Link
University of Groningen	Q2	Master	LHU001M05-05	5	Analysing Data	Link
University of Groningen	Q2	Master	LJX074M05	5	Analyzing Social Media Data	Link
University of Groningen	Q2	Bachelor	LPX034B05	5	Archaeological Data Analysis	Link
University of Groningen	Q4	Bachelor	UCG2SC11	5	Big Data - Data Science	Link
University of Groningen	Q4	Master	BWM146	5	Big Data in Sport Science and HMS	Link
University of Groningen	Q2	Master	LHU012M05	5	Collecting Data	Link
University of Groningen	Q1	Master	SOMINDW04	2.5	Data as evidence	Link
University of Groningen	Q1	Master	EBM213A05	5	Data Engineering for MADS	Link

University of Groningen	Q3	Master	LJX075M05	5	Data for Society: Civic Media	Link
University of Groningen	Q1	Bachelor/ Minor	SOMINDW08	2.5	Data in Practice	Link
University of Groningen	Q2	Master	LHU004M05	5	Data in Society	Link
University of Groningen	Q4	Bachelor	EBB056B05	5	Data Mining and its Applications	Link
University of Groningen	Q2	Bachelor	RGBRI50110	10	Data Protection and Human Rights	Link
University of Groningen	Q2	Master	EBM175A05	5	Data Science Methods	Link
University of Groningen	Q2	Master	EBM216A05	5	Data Science Methods for MADS	Link
University of Groningen	S1	Bachelor	HCPL208	2	Data visualisation (and mapping) EN	Link
University of Groningen	Q1	Bachelor/ Minor	SOMINDW09	2.5	Data visualization	Link
University of Groningen	Q2	Bachelor	LIX021B05	5	Database-driven Web technology	Link
University of Groningen	Q2	Master	EBM211A05	5	Data-driven Business Processes	Link
University of Groningen	Q2	Master	EBM154B05	5	Data-driven Control	Link
University of Groningen	Q3	Master	LJX083M05	5	Datafication: Contemporary Debates	Link
University of Groningen	Q2	propedeuse	LHU002P05	5	Digital Humanities: Hands on Data	Link
University of Groningen	Q2	propedeuse	LHU001P05	5	Digital Humanities: Introduction to Data	Link
University of Groningen	Q2	Master	WMIE007-05	5	Fitting dynamical models to data	Link
University of Groningen	Q1	Minor	SOMINDW01	7.5	Introduction to Data	Link

University of Groningen	Q1	Master	LIX016M05	5	Learning from Data	Link
University of Groningen	Q1	Master	EBM895A05	5	Multivariate Data Analysis	Link
University of Groningen	Q3	Master	LHU006M05	5	Software and Data as Culture	Link
University of Groningen	Q3	Bachelor	CFB046A05	5	Topics on Data Science	Link
University of Groningen	Q1	Master	GEMWDPR	5	Working with Data in Population Research	Link
University of Groningen	Q1	Master	LIX016M05	5	Learning from Data	Link
University of Groningen	Q3	propedeuse	WBAI018-05	5	Algorithms and Data Structures (AI)	Link
University of Groningen	S1	Minor	SOMINDW02	12.5	Collaborative Data Project	Link
University of Groningen	Q1	Minor	SOMINDW04	2.5	Data as evidence	Link
University of Groningen	Q1	Minor	SOMINDW08	2.5	Data in Practice	Link
University of Groningen	Q1	Minor	SOMINDW09	2.5	Data visualization	Link
University of Groningen	Q4	propedeuse	LIX017P05	5	Project Text Analysis	Link
University of Groningen	Q1	Bachelor	LJX018B05	5	Analysing Media Texts	Link
University of Groningen	Q2	Bachelor	LJX017B05	5	Analysing Media Production and Use	Link
University of Groningen	Q2	propedeuse	LHU001P05	5	Digital Humanities: Introduction to Data	Link
University of Groningen	Q2	propedeuse	LHU002P05	5	Digital Humanities: Hands on Data	Link
University of Groningen	Q2	Master	LHU001M05	5	Analysing Data	Link

University of Groningen	Q2	Master	LHU004M05	5	Data in Society	Link
University of Groningen	Q3	Master	LHU006M05	5	Software and Data as Culture	Link
University of Groningen	Q2	Master	LJX074M05	5	Analyzing Social Media Data	Link
University of Groningen	Q3	Master	LJX083M05	5	Datafication: Contemporary Debates	Link
University of Groningen	Q3	Master	LJX075M05	5	Data for Society: Civic Media	Link
University of Groningen	Q4	Bachelor	CFB019A05	5	Climate Data and Services	Link
University of Groningen	Q2	Bachelor	EBB105B05	5	Digital Marketing Analytics	Link
University of Groningen	Q1	Master	EBM208A05	5	Data Analysis and Programming for OM	Link
University of Groningen	Q1	Bachelor	EBB114A05	5	Marketing Analytics	Link
Erasmus U. Rotterdam	Q4	Master	BMME063	6	Big Data Analytics for Marketing Insight	
Erasmus U. Rotterdam	Q4?	Master	BMME012	6	Big Data and Business Analytics	
Erasmus U. Rotterdam	Q4	Master	BM04BIM	5	Big Data Management and Analytics	
Erasmus U. Rotterdam			DAMC0001		Data Analytics for Management-I	
Erasmus U. Rotterdam	Q1	Master	BM02BAM	4	Data Management & Ethics	
Erasmus U. Rotterdam			RMIN16	15	Applying quantitative data in legal practice	
Erasmus U. Rotterdam			BMME014	6	Network Data Analytics	
Erasmus U. Rotterdam	Q4	Master	GW4032MD	5	The potential and challenges of Big Data in healthcare	

Erasmus U. Rotterdam	Q1?		UMD2060	3	Urban Data Analytics 1	
University of Groningen	There is an upcoming MSc programme called Voice Technology (in Leeuwarden) which has lots of data- and AI-related courses. See source .					

Online Platforms

Platform	Course Title	Link
coursera.org (Google Cloud)	Data Engineering, Big Data, and Machine Learning on GCP Specialization	https://www.coursera.org/specializations/gcp-data-machine-learning
coursera.org (John Hopkins University)	Data Science: Statistics and Machine Learning Specialization	https://www.coursera.org/specializations/data-science-statistics-machine-learning
coursera.org (Google Cloud)	Google Cloud Platform Big Data and Machine Learning Fundamentals	https://www.coursera.org/learn/gcp-big-data-ml-fundamentals
coursera.org (University of Toronto)	Self-Driving Cars Specialization	https://www.coursera.org/specializations/self-driving-cars
coursera.org (Google Cloud)	Data Engineering, Big Data, and Machine Learning on GCP Specialization	https://www.coursera.org/specializations/gcp-data-machine-learning