

Form number
1 V03/11/2023

Form name
DSAI Program of Examinations

Enrollment year
2022/2023

Fill in moment
At the end of the 3rd quarter of
your studies

Name:

ID-Number:

Intended graduation cluster*:

Month and year of enrollment:

Name representative research cluster*:

*This form is signed by the representative of the research cluster where you intend to graduate. If this is yet unknown the form may be signed by your teacher coach instead.

Instructions

Please try to fill in the form digitally. In the case you want to change your program and you require permission from the examination committee in advance (e.g. when following courses at another university), note the changes on page three. When you want to change the program for other reasons, please do this at the start of your preparation phase together with form 2. For more information on the DSAI program check [the online education guide](#).

1. In the green column the mandatory study components (core) are already selected. Additionally, you need to select one of the three core electives in this column (2AMM20, 2AMI10 or 2AMV10).
2. In the white columns, you need to select two major trajectories (two courses/10 ects per major trajectory) and one or two minor trajectories (two courses/10 ects in total from trajectories that are not your major trajectories). Please indicate which trajectory is a major and which one is a minor.
3. On the second and third and page you need to fill in the seminar you chose to follow and your free electives (15 ects). Also, you can fill in your homologation courses and internship, if applicable. Are you following courses at another university? Please provide links to the course descriptions of these courses (e.g. a link to a course catalogue) on page four.
4. The representative of the research cluster you intend to graduate in or your Teacher Coach and you have to sign the form on page four.
5. If you need to make changes to a previously approved program please use textbox one page four as well.

Code	Course title	Core and core electives (30)	Specialization electives major/minor (30)	
Mandatory study components				
OLM190	Ethics in Data Science & AI	<input checked="" type="checkbox"/>		
2AMC15	Data Intelligence Challenge	<input checked="" type="checkbox"/>		
Program Trajectories 2 x 10 ects major + 2 x 5ects minor				
DS&AI in Context <input type="radio"/> major <input type="radio"/> minor				
2IMP40	Empirical Methods in Software Engineering		<input type="checkbox"/>	<input type="checkbox"/>
Statistics <input type="radio"/> major <input type="radio"/> minor				
2AMS10	Longitudinal Data Analysis	<input checked="" type="checkbox"/>		
2DI70	Statistical Learning Theory		<input type="checkbox"/>	<input type="checkbox"/>
2AMS20	Statistics for Big Data		<input type="checkbox"/>	<input type="checkbox"/>
2DD23	Time-Series & Forecasting		<input type="checkbox"/>	<input type="checkbox"/>
Data Engineering and Management <input type="radio"/> major <input type="radio"/> minor				
2AMD15	Big Data Management	<input checked="" type="checkbox"/>		
2IMD10	Engineering Data Systems		<input type="checkbox"/>	<input type="checkbox"/>
2IMS25	Principles of Data Protection		<input type="checkbox"/>	<input type="checkbox"/>
2AMD20	Knowledge Engineering		<input type="checkbox"/>	<input type="checkbox"/>

Artificial Intelligence and Machine Learning				<input type="radio"/> major	<input type="radio"/> minor
2AMU10	Foundations of AI	<input checked="" type="checkbox"/>			
2AMU20	Generative AI Models		<input type="checkbox"/>		<input type="checkbox"/>
2AMU30	Uncertainty representation and reasoning		<input type="checkbox"/>		<input type="checkbox"/>
2AMM40	Advanced Topics in AI		<input type="checkbox"/>		<input type="checkbox"/>
Data Mining & Machine Learning				<input type="radio"/> major	<input type="radio"/> minor
2AMM20	Research Topics in Data Mining	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
2AMS40	Learning Optimal Decision Strategies		<input type="checkbox"/>		<input type="checkbox"/>
2AMM15	Machine Learning Engineering		<input type="checkbox"/>		<input type="checkbox"/>
2AMM10	Deep Learning		<input type="checkbox"/>		<input type="checkbox"/>
2AMM30	Text Mining		<input type="checkbox"/>		<input type="checkbox"/>
Explainable Data Analytics				<input type="radio"/> major	<input type="radio"/> minor
2AMI10	Foundations of Process Mining	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
2AMI20	Advanced Process Mining		<input type="checkbox"/>		<input type="checkbox"/>
2AMV10	Visual Analytics	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Algorithmic Data Analysis				<input type="radio"/> major	<input type="radio"/> minor
2AMS50	Optimization for Data Science		<input type="checkbox"/>		<input type="checkbox"/>
2IMA20	Algorithms for Geographic Data		<input type="checkbox"/>		<input type="checkbox"/>
2IMA30	Topological Data Analysis		<input type="checkbox"/>		<input type="checkbox"/>
Subtotal ects/ no. of courses completed			30	20	10

Seminar (select one)

Course code	Course title		ects
2IMA00	Seminar Algorithms	<input type="checkbox"/>	5
2IMD00	Seminar Datamanagement	<input type="checkbox"/>	5
2IMI00	Seminar Process Analytics	<input type="checkbox"/>	5
2IMM00	Seminar Data Mining	<input type="checkbox"/>	5
2IMS00	Seminar IST	<input type="checkbox"/>	5
2IMU00	Seminar Uncertainty in AI	<input type="checkbox"/>	5
2IMV00	Seminar Visualization	<input type="checkbox"/>	5
2AMS00	Seminar SPOR	<input type="checkbox"/>	5
2IMN00	Seminar IRIS	<input type="checkbox"/>	5
2IMP00	Seminar SET	<input type="checkbox"/>	5
2IMF00	Seminar FSA	<input type="checkbox"/>	5
Subtotal ects			

Free elective courses

Course code	Course title	ects
Subtotal ects		

Homologation courses*

Course code	Course title	ects
Subtotal ects		

*Homologation courses are bachelor courses assigned during the admission process to make up deficiencies in previous knowledge. Please check your admission letter to see if you have homologation courses. It is also possible to pick a maximum of three bachelor courses yourself to compensate deficiencies, if you think it is necessary. If you do that, a motivation for including the self-chosen homologation courses must be attached to this form.

Internship**

Course code	Course title		ects
2IMC10	Internship	<input type="checkbox"/>	15
Subtotal ects			

**An internship is optional. Keep in mind, when you do an external internship (e.g. at a company), your graduation project needs to be executed internally (within TU/e), when you do an internal internship you cannot graduate with the same supervisor.

Internship supervisor (if known):

Graduation Project

Course code	Course title	ects
2AMC05	Graduation Preparation	10
2AMC00	Master Project	30
Subtotal ects		40

Total number of credits (at least 120 credits)

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Agreement

Signature Student:

Date:

Signature representative research cluster or Teacher Coach:

Date:

Changes to the previously approved program, links to course descriptions of courses followed at another university and/or motivation for self-chosen homologation courses (if applicable):

This form must send to the Student Administration mcs.csa@tue.nl.

If you do not agree with the decision of the Examination Committee, you may submit an appeal via [this webpage](#) within a period of six weeks after the date of this decision.

This section to be filled in by the Examination Committee

Approval Examinations Committee:

Date: