## IAM Study Program Approval Form (enrollment academic year 2020-2021)

Student name:
ID- number:
Intended graduation group*:
Preference 1 Unknown
Preference 2 Unknown
*This field is required. If this is yet unknown, you will not be guaranteed a secure spot in your preferred group when you want to choose a supervisor.
Mentor:
Month and year of enrollment IAM:
Course totals

| Study program component | Credits |  |  |
| :--- | :---: | :---: | :---: |
| Core courses (at least 20 credits) |  |  |  |
| Special electives |  |  |  |
|  | Subtotal (at least 55 credits) |  |  |
| Professional Portfolio | 5 |  |  |
| Free electives (includes internship if applicable) |  |  |  |
| Final Project | 30 |  |  |
| Total amount of credits (at least 120 credits) |  |  |  |

## Compulsory course

|  | Course code | Course title | Credits |
| :---: | :--- | :--- | :---: |
| $\boxtimes$ | 2MMR10 | Professional portfolio | 5 |
| Subtotal |  |  | 5 |

## Core electives

Select at least 4 out of 6 courses.

|  | Course code | Course title | Credits |
| :---: | :--- | :--- | :---: |
| $\square$ | 2MMA10 | Applied Functional Analysis | 5 |
| $\square$ | 2MMC10 | Cryptology | 5 |
| $\square$ | 2MMD10 | Optimization | 5 |
| $\square$ | 2MMN10 | Scientific Computing | 5 |
| $\square$ | 2MMS10 | Probability and Stochastics 1 | 5 |
| $\square$ | 2MMS70 | Statistical Analysis Methods | 5 |
| Subtotal |  |  |  |
|  |  |  |  |

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## Special electives

Add Mastermath courses to this list if applicable.

|  | Course code | Course title | credits |
| :---: | :---: | :---: | :---: |
| $\square$ | 2DMI00 | Cryptographic Protocols | 5 |
| $\square$ | 2DMI10 | Applied Cryptography | 5 |
| $\square$ | 2IMA10 | Advanced Algorithms | 5 |
| $\square$ | 2IMA25 | Exact Algorithms for NP-hard Problems | 5 |
| $\square$ | 2MMA20 | Partial Differential Equations | 5 |
| $\square$ | 2MMA30 | Modeling and Perturbation Methods | 5 |
| $\square$ | 2MMA40 | Evolution Equations | 5 |
| $\square$ | 2MMA70 | Differential Geometry for Image Processing | 5 |
| $\square$ | 2MMC30 | Coding Theory | 8 |
| $\square$ | 2MMD20 | Multilinear Algebra and Applications | 5 |
| $\square$ | 2MMD30 | Graphs and Algorithms | 5 |
| $\square$ | 2MMD40 | Integer Programming | 5 |
| $\square$ | 2MMD50 | Algebraic Combinatorics | 5 |
| $\square$ | 2MMN20 | Scientific Programming | 5 |
| $\square$ | 2MMN30 | Scientific Computing in PDE | 5 |
| $\square$ | 2MMN40 | Introduction to Molecular Modeling and Simulation | 5 |
| $\square$ | 2MMR40 | Research Topic 1 | 5 |
| $\square$ | 2MMR50 | Research Topic 2 | 5 |
| $\square$ | 2MMR60 | Research Topic 3 | 5 |
| $\square$ | 2MMS20 | Statistics for Big Data | 5 |
| $\square$ | 2MMS30 | Probability and Stochastics 2 | 5 |
| $\square$ | 2MMS40 | Stochastic Networks | 5 |
| $\square$ | 2MMS50 | Stochastic Decision Theory | 5 |
| $\square$ | 2MMS60 | Random Graphs | 5 |
| $\square$ | 2MMS80 | Statistical Learning Theory | 5 |
| $\square$ | 5LAM0 | Model reduction | 5 |
| $\square$ | EME35 | Learning on the Job 4 | 5 |
| $\square$ | EME40 | Practical Educational Research (workshops) | 2.5 |
| $\square$ | EME41 | Practical Educational Research (project) | 7.5 |
| $\square$ |  |  |  |
| $\square$ |  |  |  |
| $\square$ |  |  |  |
| $\square$ |  |  |  |
| $\square$ |  |  |  |
| $\square$ |  |  |  |
| $\square$ Subtotal |  |  |  |

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## Free electives

Master level courses, homologation courses (if applicable), and internship (if applicable).

|  | Course code | Course title | Credits |
| :---: | :--- | :--- | :---: |
| $\square$ | 2MMR20 | Internship | 15 |
| $\square$ | SFC640 | Academic Writing | 5 |
| $\square$ |  |  |  |
| $\square$ |  |  |  |
| $\square$ |  |  |  |
| $\square$ |  |  |  |
| $\square$ |  | Subtotal |  |
|  |  |  |  |
|  |  |  |  |

## Graduation Project

|  | Course code | Course title | Credits |
| :---: | :--- | :--- | :---: |
| $\square$ | 2MMR30 | Graduation project | 30 |
|  | Subtotal |  |  |
|  |  |  |  |

## Additional information

1) List all bachelor courses in the proposed study program. Argue that each course is necessary for homologation by indicating an elective course or project on this study program for which this bachelor course gives necessary pre-knowledge.

| BC code | Bachelor Course title | MC code | Master Course title |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

2) The following decisions of the IAM examination committee apply to this study program (give dates):
3) This form updates a previously approved study program:Yes

No (If yes, list changes relative to previous program on the final page of this form)

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## Signature of Student

Signature:
Date:

## Approval of Mentor

I have verified that there is no significant overlap between the subject matter of the various parts of this study program.

Name:

Signature:
Date:

## Approval of the Examination Committee

Approved by secretary of the Examinations Committee
Signature:
Date:

This form must be handed in digitally by the mentor at the Student Administration (CSA.MCS@tue.nl). The IAM Program and Examination Regulations are available from the TU/e online education guide: https://educationguide.tue.nl/programs/graduate-school/masters-programs/industrial-and-applied-mathematics/regulations/

