

## Study Regulations for the Master of Science Programs at Modul University Vienna (ITM 123, SDMP 224, MGMT 323, DSFS xxx)

Decided on September 27<sup>th</sup>,2024, by the University Senate

Due to the accreditation as a private university (decision of the Austrian Accreditation Council on 12 July 2007 according to the university accreditation law, BGBl. I No. 168/1999 as amended), the University Board of Modul University Vienna decreed the following study regulations on 5 July 2016 based on § 3(1) of the Private University Law.

#### § 1 Ambit

These study regulations define admission criteria, the structure of the study program, and the examination requirements for the Master of Science (MSc) programs at Modul University Vienna. They are applicable to all students of following study program identification numbers: 123, 224, 323, xxx. The clauses valid for all Master of Science programs are in the proceeding text. The special clauses pertaining to each individual Master of Science program are available in the appendices.

#### § 2 Goal of the Master Degree

The master degree is awarded at the completion of academic studies for the respective subject and signifies career qualifications. Examinations taken throughout the program, as well as the final master thesis and its defense, determine whether the student has acquired the necessary professional, scientific and theoretical knowledge to solve complex professional and scientific problems. Graduates of this program gain proper leadership skills, including personal and social competences. They have the ability to independently apply scientific methods and tools and to contribute to the development of the subject. The Master of Science programs at Modul University Vienna provide the foundation and qualification for graduates to continue their studies in a PhD program.

#### § 3 Degree of completion

After the successful completion of the master program, the following respective academic degrees will be conferred:

Master of Science in International Tourism Management

Master of Science in Sustainable Development, Management and Policy

Master of Science in Management



## Master of Science In Data Science for Sustainability<sup>1</sup>

The short forms of these degrees are respectively:

MSc in International Tourism Management (abbreviation: MSc ITM)

MSc in Sustainable Development, Management, and Policy (abbreviation: MSc SDMP)

MSc in Management (abbreviation: MSc MGMT)

MSc in Data Science for Sustainability (abbreviation: MSc DSFS)

#### § 4 Admission to the Master Program

- (1) Admission to the Master in Sustainable Development, Management and Policy and the Master in International Tourism Management program is granted to those individuals who have completed at least the equivalent of a bachelor's or diploma degree with a minimum duration of three years and who can demonstrate aptitude for research and basic knowledge in one or more of the natural or social sciences. Selection will be based upon transcripts of courses taken and grades received at previous universities and other educational organizations.
  - a) Suitable preparation for the MSc in International Tourism Management includes degrees from among tourism or hospitality management, marketing, management science, technical sciences, geography, planning, sociology, policy sciences, law, or economics.
  - b) Suitable preparation for the MSc in Sustainable Development, Management and Policy includes degrees from among the environmental sciences, biology, geography, planning, sociology, political science, policy sciences, law, management, or economics.
- (2) Admission to the Master in Management program is granted to those individuals who have completed at least the equivalent of a bachelor's or diploma degree in Business or Economic sciences as well as Social Sciences with a minimum duration of three years and who can demonstrate aptitude for research. Selection will be based upon transcripts of courses taken and grades received at previous universities and other educational organizations.

<sup>&</sup>lt;sup>1</sup> The MSc in Data Science for Sustainability program is subject to accreditation by AQ Austria.



- (3) Admission to the Master in Data Science for Sustainability program is granted to those individuals who have completed at least the equivalent of a bachelor's or diploma degree from among the Biology, Business Informatics, Environmental Sciences, Geography, Sustainability (all with a quantitative focus), Computer Science, Data Science, Econometrics, Physics, Software Engineering, and Statistics with a minimum duration of three years and who can demonstrate aptitude for research. Selection will be based upon transcripts of courses taken and grades received at previous universities and other educational organizations.
- (4) If the admission to the master studies is based on a degree from another university that is not subject to Austrian higher education law (e.g., foreign educational institutions according to § 27 HS-QSG), the credits that have been transferred from another education provider during the course at this university may be checked to determine whether the qualifications acquired through credit transfer differ from the learning objectives of a comparable bachelor's degree at MU Vienna. Upon request, the applicant must provide the documents required for this verification: (a) name of institution; (b) program title; (c) hours of work; (d) course description (syllabus); (e) reading material; (f) proof of examinations. Criteria for assessing the existence of significant differences are: (a) level of qualification, (b) learning outcomes, (c) study workload and (d) quality of the program leading to a degree.
- (5) It is possible to apply without the completion of an undergraduate university degree if the applicant has completed all the coursework of an undergraduate program preparing one for university-level graduate studies. Students can finish up to two final exams from their undergraduate studies during the first year of their master studies. However, all courses with mandatory attendance and the bachelor thesis (if applicable) need to be completed prior to the start of the master studies. In this case, a written declaration, which states that they will presumably receive certification for university admission on graduate level in the year when they apply for admission, is necessary. The proof must be supported by a mid-semester transcript or equivalent documents. The proof of the definitive completion of an undergraduate degree must be presented at the latest by the end of the first study year at Modul University Vienna.
- (6) Academic documents that are not in the German or English language need to be accompanied by a certified translation.
- (7) All applicants whose first language is not English must provide evidence of their proficiency in the English language through one of the following tests taken within the previous two years.

#### The minimum scores are:

- a) TOEFL: 570 paper-based test (PBT) or 230 computer-based test (CBT) or 95 Internet-based test (IBT); or
- b) IELTS: overall band score 7.0 (no sub-score below 6.5); or
- c) CEFR (Common European Framework): C1+; or



- d) Pearson Academic: 76 points; or
- e) Cambridge Advanced Certificate of English: From Grade C. A minimum of 180 points is required.
- f) Exceptions will be considered for students who have English as a first language and have completed their undergraduate studies entirely in English at universities that are recognized in Austria. However, our admissions committee maintains the authority to request any additional evidence of English proficiency if deemed necessary.
- (8) Additional documents required for admission:
  - a) Résumé and motivation letter
  - b) Two letters of recommendation from academic references such as current or former lecturers or research supervisors.
- (9) When deemed necessary, the Admissions Committee may conduct an interview with the applicant, either in person, on the telephone, or via video chat. The interview serves to clarify unanswered questions raised during the application process to ensure that the applicant's expectations are in line with the program's offerings and to aid in making a final admission decision.
- (10) Credit transfer applications must be submitted with the admissions documents.
- (11) The respective Admissions Committee decides about the admission to the study program once the candidate has submitted a complete application.
- (12) Conditional Admittance: Applicants who do not entirely fulfill the admissions criteria for direct entry into the graduate program may make up the missing content by either sitting the respective undergraduate course or taking a prerequisite exam. Students may simultaneously enroll in all courses of the graduate degree except for those courses for which the prerequisite course/exam is required.
  - a) Upon successful completion of the prerequisites, students are not required to resubmit their admission application for the respective graduate program.
  - b) Conditionally admitted students must complete all required prerequisites either within the first semester of their MU studies or in some cases where indicated during the second semester.
  - c) The prerequisites are deemed successfully completed when assessed positively according to the MU grading scale. § 12 of the MU Examination Regulations and Student Code of Conduct apply in case of negative assessment.
  - d) Prerequisite exams are offered at the beginning of each semester (September and February) regardless of whether the undergraduate course is offered in the upcoming semester. Exam retake opportunities will not be offered; therefore, students can only attempt the exam once. Students who fail the exam will have to sit the respective course during the first available semester.



e) The costs for participating in these additional exams and or courses are not included in the tuition of the respective study program and are outlined in the MU Guidelines on Fees § 6 and 7.

#### § 5 Structure of the Studies, Duration of Studies

- (1) The regular duration of studies for the Master of Science programs, including the preparation of the master thesis and the completion of all coursework, is four semesters (2 years). Students who enter the program in a Spring Semester may require one additional semester of studies due to the requirements of § 8.
- (2) The duration of studies can be extended according to the needs of the student as long as the student meets the University's expectations related to academic performance as outlined in the Study Contract.
- (3) The total number of ECTS points and a schedule for the MSc in International Tourism Management can be found in Appendix A; the total number of ECTS points and a schedule for the MSc in Sustainable Development, Management, and Policy can be found in Appendix B; the total number of ECTS points and a schedule for the MSc in Management can be found in Appendix C, the total number of ECTS points and a schedule for the MSc in Data Science for Sustainability can be found in Appendix D.
- Upon application of the student, the Dean can grant a leave of absence. During this period, the student's tuition fees are suspended and they are not able to take exams or attend courses. All other effects of the suspended study activity are the student's responsibility. The application for the leave, which must also include the planned duration of the leave, must be submitted at least one month prior to start of the leave's first semester. Multiple leaves of absence are possible. The maximum duration of leave allowed in total is 4 semesters.
- (5) All lectures, coursework, and examinations are conducted in the English language.

#### § 6 Types of Courses

- (1) Core Courses: The courses designated as CC in the study schedule (curriculum) are mandatory for all MSc students and must be passed in order to fulfill the program's graduation requirements.
- (2) Enrichment Courses are non-core courses and offering may vary from semester to semester. Students must complete enrichment courses with a minimum number of ECTS credits based on the requirements of the study program (Appendix A, Appendix B, Appendix C, Appendix D). If a student chooses to attend more than the required curricular enrichment courses, the student will be responsible for any additional costs.
- (3) Personal Training: The student can take an optional internship.
- (4) Prerequisite Undergraduate Courses: Any student conditionally admitted to the MSc program who needs to complete prerequisite undergraduate courses has one year (two semesters) in which to do so.



- (5) Elective Courses: Language and preparatory courses do not form part of the official curriculum, but these courses can be taken by a student, given that they do not interfere with any MSc curricular requirements.
- (6) The Dean can determine a minimum number of participants for all offered courses.

#### § 7 ECTS Points

- (1) ECTS points (European Credit Transfer System ECTS, 87/327/ECC, Official Journal no. L 166 from 25 June 1987, CELEX no. 387D0327) are allocated for each course depending on the student workload. In the schedule of studies, in addition to the numbers of hours, the corresponding ECTS points for each course are allocated.
- (2) Each ECTS credit point corresponds to 25 working hours for the student.

#### § 8 Course Prerequisites

- (1) Some courses can only be taken if a passing grade was earned in its prerequisite course. Conditional registration is possible in cases where the prerequisite course was taken, but the results have not been announced prior to the start of the subsequent course.
- (2) To be able to register for (a) Advanced Data Analysis and Decision Making, (b) International Destination Management, Tourism Business Project, Organizational Social Psychology and Leadership, Global Marketing: Theory and Practice, Corporate Financial Management and (c) Advanced Economics, Tourism Economics, students must already have taken basic courses in (a) statistics, (b) management, and (c) economics or calculus, respectively. To be able to register for courses from the Data Science Module, students must already have taken basic courses in (i) foundations of computer science and programming, (ii) data structures and databases, and (iii) statistics. If such courses previous have not been taken, a student is required to complete with a positive assessment a basic, equivalent undergraduate course before registering for the above-mentioned courses (a-c and i-iii).
  - (3) To be able to register for and participate in the course Research Design and Methods in Practice, the course Advanced Data Analysis and Decision Making must have been completed with a positive assessment.
- (4) To be able to register for and participate in the course Applications of Economics for the Environment, the course Advanced Economics must have been completed with a positive assessment.
- (5) To be able to register for and participate in the course Machine Learning II, the course Machine Learning I must have been completed with a positive assessment.
- (6) To be able to register for and participate in the Master Thesis Seminar, the course Research Design and Methods in Practice must have been completed with a positive assessment.

#### § 9 Master Thesis



- (1) A prerequisite for the successful completion of a master program and the acquisition of the academic degree is the completion and positive assessment of the master thesis. The master thesis serves to prove that the student can deal with a problem related to the respective program field in an independent manner on the basis of the gained scientific knowledge. This paper must be written in accordance with the principles of an academic work.
- (2) The master thesis will be assessed by an assessment committee comprising of the thesis supervisor and a chair of the thesis defense who is selected by the Dean. The supervisors need to justify their assessment in written form.
- (3) External supervisors and supervisors without a PhD shall be approved by the Dean.
- (4) In principle, the master thesis should be written individually. Upon the approval of the Dean, the master thesis can be written by a group of students.
- (5) The master thesis consists of a written paper and an oral defense. The master thesis and the oral defense will be assessed and need to be passed separately. In addition, the supervisor will provide an overall grade in which the paper makes up 80 percent and the defense makes up the remaining 20 percent of the overall assessment.
- (6) If a student or a group of students are unable to identify a suitable topic, the Dean will assign them to a lecturer who will then suggest a topic.
- (7) The topic and the initial work of the master thesis shall be announced to the respective Dean in writing, together with a supervision statement from a faculty member or an external lecturer who holds an academic doctoral degree or equivalent.
- (8) The topic of the master thesis can only be changed once and only within the first three months after the announcement of the topic to the Dean. The master thesis must be written in the English language. One printed and hardbound copy and an electronic version of the master thesis must be submitted. The printed format must contain a written statement from the student that they wrote the paper independently and has not used any aids other than those referenced in the text.
- (9) The oral defense of the master thesis is open to the public. Should the student and/or the thesis supervisor request the defense to be held online, the Dean may allow this under exceptional circumstances.
- (10) Master theses are archived in the library and may be published on the internet by Modul University Vienna. A hold on the master thesis can be applied for in writing through the supervisor or the thesis author if information worthy of protecting is published in the master thesis. The hold has a maximum duration of 5 years and is decided by the Dean.

#### § 10 Internships

(1) Students of the ITM, SMDP, MGMT, and DSFS study programs may choose to complete an optional internship with a minimum of 340 hours (6 ECTS) completed in an area related to the study program. This internship is designed



to provide graduate students with the opportunity to apply their acquired theoretical knowledge and gain hands-on experience. The intern must be entrusted with a project task during the internship.

- (2) The internship can be completed domestically or abroad.
- (3) The selection of the organization providing the internship placement must be given written approval by the Dean.
- (4) Modul University Vienna reserves the right to supervise the internship.
- (5) Proof of the internship must be provided through a confirmation from the internship provider, a reference letter, and/or appraisal on behalf of the organization providing the internship placement. As part of the internship, the student must additionally provide a report approved by the Dean. This report must follow the university guidelines for internships outlined in the internship manual. The student will also be required to hold a presentation as part of the internship. Upon successful completion of the internship, the student will receive 6 ECTS and the grade "completed".
- (6) The Dean can confer the tasks of (3) to (5) to the internship coordinator.
- (7) For ITM students who successfully complete the internship, the number of ECTS that need to be completed from Module V "Enrichment Courses" is reduced by 6 ECTS.
- (8) For MGMT students who successfully complete the internship, the number of ECTS that need to be completed from Module V "Enrichment Courses" is reduced by 6 ECTS.
- (9) For SDMP students who successfully complete the internship, the number of ECTS that need to be completed for Module IV "Enrichment Courses" is reduced by 6 ECTS.
- (10) For DSFS students who successfully complete the internship, the number of ECTS that need to be completed for Module IV "Enrichment Courses" is reduced by 6 ECTS.
- (11) Practical experience gained prior to the student's enrolment in the MSc program cannot be credited towards an MSc internship.
- (12) The Dean may approve an existing work contract in place of an internship if it is deemed to fulfil the necessary requirements as defined in (1).

#### § 11 Overall Result of the Master Program



(1) The overall grade percentage of the master degree is given by the weighted average grade percentage of all final grades (core courses, enrichment courses and thesis) completed at Modul University Vienna, or any international branch campus of Modul University Vienna. Each course is weighted corresponding to the allocated ECTS credits.

#### **Assessment Scheme**

- "With distinction" is awarded for an overall grade percentage average of 90% or higher.
- "With merit" is awarded for an overall grade percentage average between 80% and 89%.
- "Passed" is given for an overall grade percentage average between 60% and 79%.

#### § 12 Conferment of MSc Degree

- (1) The academic degree of MSc in International Tourism Management; MSc in Sustainable Development, Management, and Policy; MSc in Management; or MSc in Data Science for Sustainability is conferred only after the successful completion of all courses, including the master thesis, as outlined in each degree program's curriculum.
- (2) Students must earn 120 ECTS points in order to obtain an MSc degree at Modul University Vienna. Students can transfer course credits from another university or other educational institutes; however, a minimum of 90 ECTS points must be completed at Modul University Vienna. This requirement can be reduced to 60 ECTS points if the other educational institutes are dedicated partner universities.
- (3) Graduates will receive the following documents, issued in the English language, stating the date on which the degree has been conferred.
  - a) Master Diploma: The master diploma is signed by the President and the Dean and certified by the Modul University Vienna seal.
  - b) Diploma Supplement: A supplement will be provided in addition to the diploma and explain the international allocation of the completed program. It is signed by the Dean.
  - c) Transcript of Records: The Transcript of Records contains all courses that have been passed, the respective ECTS credits, and the examination grades achieved. It also includes the student's overall grade point average:
- (4) The diploma certifies the awarding of the academic degree by Modul University Vienna.

In the event that a student fails to complete the study program, the student will receive a transcript of records for the course work which they have completed.

#### § 13 Semester Conference



(1) For the MSc programs, the tasks outlined in § 10 of the MU Examination Regulations and Student Code of Conduct are carried out by the Semester Conference, as specified by the University Constitution (Section IX. § 1).

The University Board of Modul University Vienna publicly announces these Study Regulations which take effect on September 27<sup>th</sup>, 2024.



## **Appendix I: MSc in International Tourism Management**

Subject	Туре	Format	Hours per week	ECTS
MODULE I Management and Research Fundamentals			Week	
Tourism Economics	СС	SE	3	6
Advanced Data Analysis and Decision Making	СС	SE	3	6
Research Design and Methods in Practice	СС	SE	3	6
Total Module I			9	18
MODULE II International Tourism				
Tourist Behavior	СС	SE	2	6
Tourism Marketing: Theory and Practice	СС	SE	2	6
Corporate Financial Management	СС	SE	2	6
International Destination Management	СС	SE	2	6
Service Quality Management for Tourism and Hospitality	СС	SE	2	6
Tourism Business Project	СС	SE	2	6
Total Module II			12	36
MODULE III Innovation and Change Management				
Microeconomics of Competitiveness	CC	SE	2	6
Emerging Tools for New Media and Information Management	СС	SE	2	6
Total Module III			4	12
MODILIE IV Sustainability in Tourism				
MODULE IV Sustainability in Tourism				
Business Ethics	СС	SE	2	6
Business Ethics Total Module IV	cc	SE	2 <b>2</b>	6 <b>6</b>
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Business Ethics Total Module IV  MODULE V Enrichment Courses/Specializations A minimum of 15 ECTS from dedicated courses is required for a speciother enrichment courses. Students completing two (or more) special to each specialization. A2: "Sustainable Management and Policy" A3: "Digital Marketing" A4: "Entrepreneurship, Innovation and Leadership" A5: "Real Estate Management" A6: "Innovation and Experience Design for Tourism" A7: "Data Science" A8: A choice of enrichment courses summing up to 18 ECTS Total Module V  MODULE VI Master Thesis Master Thesis Seminar Master Thesis Defense Total Module VI  MODULE VII Internship (optional)	alization. An additizations must take  ER  ER  ER  ER  ER  ER  ER  CC  CC  CC	stional 3 ECTS at least 3 cor SE SE SE SE SE SE SE SE TH TH	2  can be take urses that and 7 7 7 7 7 7 7 7 7-9 7-9 2	18 18 18 18 18 18 18 18 18 18 18 18 18 1



# Appendix II: MSc in Sustainable Development, Management, and Policy

Subject	Туре	Format	Hours per week	ECTS
MODULE I Management and Research Fundamentals				
Advanced Economics	CC	SE	3	6
Environmental Management and Sustainability	CC	SE	2	6
Organizational Social Psychology and Leadership	CC	SE	2	6
Advanced Data Analysis and Decision Making	CC	SE	3	6
Research Design and Methods in Practice	CC	SE	3	6
Conflict Management	CC	SE	2	6
Total Module I			15	36
MODULE II Sustainable Development and Policy				
Principles of Sustainability and Economic Development	CC	SE	2	6
Environmental Sciences, Systems and Energy Studies	CC	SE	2	6
Public Policy Analysis and Evaluation	CC	SE	2	6
Ecological Economics	CC	SE	2	6
Total Module II			8	24
<b>MODULE III Professional Application of Sustainable Developmen</b>	nt		•	
Applications of Economics for the Environment	CC	SE	2	6
Sustainable Metrics Seminar	CC	SE	2	6
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special course.	oecialization. An a	dditional 3 E0	4 CTS can be ta	12 ken from
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) speto each specialization.	pecialization. An a	dditional 3 E0	4 CTS can be ta	ken from
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) speto each specialization.  A1: "Tourism and Services Management"	pecialization. An a ecializations must t	dditional 3 EG ake at least 3	4 CTS can be ta courses that	ken from t are uniqu
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) speto each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"	pecialization. An a ecializations must t ER ER	dditional 3 E0 ake at least 3 SE SE	TS can be tall courses that	ken from t are uniques 18 18
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A4: "Entrepreneurship, Innovation and Leadership"	pecialization. An a ecializations must t ER ER ER	dditional 3 E0 cake at least 3 SE SE SE	TS can be tall courses that	ken from t are uniques 18 18 18
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) specto each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"	pecialization. An a ecializations must to ER ER ER ER	dditional 3 EG ake at least 3 SE SE SE SE	TS can be tall courses that 7 7 7 7 7	ken from tare uniques 18 18 18 18
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) special each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"	ecialization. An a ecializations must to ER ER ER ER ER	dditional 3 EG ake at least 3 SE SE SE SE SE	TS can be ta courses that 7 7 7 7 7	12 ken from t are uniqu 18 18 18 18
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) special each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"  A7: "Data Science"	ecialization. An a ecializations must to ER ER ER ER ER ER	SE S	TS can be tall courses that 7 7 7 7 7 7 7 7 7 7	12 ken from t are uniqu 18 18 18 18 18
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) special each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"  A7: "Data Science"  A8: A choice of Elective courses summing up to 18 ECTS	ecialization. An a ecializations must to ER ER ER ER ER	dditional 3 EG ake at least 3 SE SE SE SE SE	7 7 7 7 7 7 7 7 7	12 ken from t are uniquents 18 18 18 18 18 18
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) special each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"  A7: "Data Science"  A8: A choice of Elective courses summing up to 18 ECTS  Total Module IV	ecialization. An a ecializations must to ER ER ER ER ER ER	SE S	TS can be tall courses that 7 7 7 7 7 7 7 7 7 7	12 ken from t are uniqu 18 18 18 18 18
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) special each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"  A7: "Data Science"  A8: A choice of Elective courses summing up to 18 ECTS  Total Module IV  MODULE V Master Thesis	ecialization. An a ecializations must to ER ER ER ER ER ER ER	SE S	7 7 7 7 7 7 7 7 7 7 7 7	12  ken from t are unique  18  18  18  18  18  18  18  18
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) special each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"  A7: "Data Science"  A8: A choice of Elective courses summing up to 18 ECTS  Total Module IV  MODULE V Master Thesis  Master Thesis Seminar	ecialization. An a ecializations must the error of the er	SE S	7 7 7 7 7 7 7 7 7	12  ken from tare unique 18 18 18 18 18 18 18 18 18 3
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) special each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"  A7: "Data Science"  A8: A choice of Elective courses summing up to 18 ECTS  Total Module IV  MODULE V Master Thesis  Master Thesis Seminar  Master Thesis	ER ER ER ER ER ER ER ER ER CC CC	SE S	7 7 7 7 7 7 7 7 7 7 7 7	12  ken from tare unique  18 18 18 18 18 18 18 18 25
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special each specialization.  A1: "Tourism and Services Management" A2: "Sustainable Management and Policy" A4: "Entrepreneurship, Innovation and Leadership" A5: "Real Estate Management" A6: "Innovation and Experience Design for Tourism" A7: "Data Science" A8: A choice of Elective courses summing up to 18 ECTS Total Module IV  MODULE V Master Thesis  Master Thesis Seminar  Master Thesis Defense	ecialization. An a ecializations must the error of the er	SE S	7 7 7 7 7 7 7 7 7 9 7-9 2	12 ken from t are unique 18 18 18 18 18 18 18 18 25 2
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special enrichment courses. Students completing two (or more) special each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"  A7: "Data Science"  A8: A choice of Elective courses summing up to 18 ECTS  Total Module IV  MODULE V Master Thesis  Master Thesis Seminar  Master Thesis Defense  Total Module V	ER ER ER ER ER ER ER ER ER CC CC	SE S	7 7 7 7 7 7 7 7 7 7 7 7	12  ken from tare unique 18 18 18 18 18 18 18 18 18 25
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) special each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"  A7: "Data Science"  A8: A choice of Elective courses summing up to 18 ECTS  Total Module IV  MODULE V Master Thesis  Master Thesis Seminar  Master Thesis Defense  Total Module V  MODULE VI Internship (optional)	ER ER ER ER ER ER ER ER CC CC CC	SE SE SE SE SE SE SE SE TH TH	7 7 7 7 7 7 7 7 7 9 7-9 2	12  ken from tare unique 18 18 18 18 18 18 18 18 25 2 30
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) special each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"  A7: "Data Science"  A8: A choice of Elective courses summing up to 18 ECTS  Total Module IV  MODULE V Master Thesis  Master Thesis Seminar  Master Thesis Defense  Total Module V  MODULE VI Internship (optional)  Graduate Internship	ER E	SE SE SE SE SE SE SE TH TH	4 CTS can be tall courses that 7 7 7 7 7 7 7 7-9 7-9 2	12  ken from tare uniques 18 18 18 18 18 18 18 18 25 2 30
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) special each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"  A7: "Data Science"  A8: A choice of Elective courses summing up to 18 ECTS  Total Module IV  MODULE V Master Thesis  Master Thesis Seminar  Master Thesis Defense  Total Module V  MODULE VI Internship (optional)  Graduate Internship  Industry Excellence Program	ER ER ER ER ER ER ER ER CC CC CC	SE SE SE SE SE SE SE SE TH TH	4 CTS can be tall courses that 7 7 7 7 7 7 7 7-9 7-9 2 2 2 2	12  ken from tare unique  18 18 18 18 18 18 18 25 2 30 6 6 6
Total Module III  MODULE IV Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a spother enrichment courses. Students completing two (or more) special each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"  A7: "Data Science"  A8: A choice of Elective courses summing up to 18 ECTS  Total Module IV  MODULE V Master Thesis  Master Thesis Seminar  Master Thesis Defense  Total Module V  MODULE VI Internship (optional)  Graduate Internship	ER E	SE SE SE SE SE SE SE TH TH	4 CTS can be tall courses that 7 7 7 7 7 7 7 7-9 7-9 2	12  ken from tare uniques 18 18 18 18 18 18 18 18 25 2 30



## Appendix III: MSc in Management

Subject	Туре	Format	Hours per week	ECTS
MODULE I Economics and Research Methods				
Advanced Economics	CC	SE	3	6
Advanced Data Analysis and Decision Making	CC	SE	3	6
Research Design and Methods in Practice	CC	SE	3	6
Total Module I			9	18
MODULE II Integrated Management				
Global Marketing: Theory and Cases	CC	SE	2	6
Corporate Financial Management	CC	SE	2	6
Business Strategy and Market Simulation	CC	SE	2	6
Environmental Management and Sustainability	CC	SE	2	6
Total Module II			8	24
MODULE III Innovations and ICT				
Microeconomics of Competitiveness	СС	SE	2	6
Emerging Tools for New Media and Information Management	СС	SE	2	6
Total Module III	<b>,</b>		4	12
MODULE IV Leadership and Personal Skills*				
Organizational Social Psychology and Leadership	СС	SE	2	6
Conflict Management	CC	SE	2	6
		SE	2	6
BUSINESS ETNICS	ICC	ISE	2	0
Business Ethics Total Module IV  MODULE V Enrichment Courses/Specializations A minimum of 15 ECTS from dedicated courses is required for a specialization.	CC		6	18
Total Module IV  MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization.	ialization. An a	dditional 3 EC	<b>6</b> TS can be ta	18 aken from
Total Module IV  MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special	ialization. An a	dditional 3 EC	<b>6</b> TS can be ta	18 aken from
Total Module IV  MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization.	ialization. An a	dditional 3 EC take at least 3	TS can be ta	18  uken from at are uniqu
Total Module IV  MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization.  A1: "Tourism and Services Management"	ialization. An a alizations must ER	dditional 3 EC take at least 3	TS can be ta courses tha	18  uken from at are unique
Total Module IV  MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A3: "Digital Marketing"  A4: "Entrepreneurship, Innovation and Leadership"	ialization. An a alizations must ER ER	dditional 3 EC take at least 3 SE SE	TS can be ta courses tha	18 aken from at are uniqued 18 aken 18
Total Module IV  MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A3: "Digital Marketing"	ialization. An a alizations must ER ER ER	dditional 3 EC take at least 3 SE SE SE SE SE SE	7 7 7	18 sken from at are unique 18 18 18
Total Module IV  MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A3: "Digital Marketing"  A4: "Entrepreneurship, Innovation and Leadership"	ialization. An a alizations must ER ER ER ER	dditional 3 EC take at least 3 SE SE SE SE	7 7 7 7	18  lken from at are unique  18  18  18  18
Total Module IV  MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A3: "Digital Marketing"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"	Eialization. An a alizations must ER ER ER ER ER	dditional 3 EC take at least 3 SE SE SE SE SE SE	7 7 7 7 7	18
Total Module IV  MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A3: "Digital Marketing"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"	ER	dditional 3 EC take at least 3 SE SE SE SE SE SE SE	7 7 7 7 7 7	18
Total Module IV  MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization.  A1: "Tourism and Services Management" A2: "Sustainable Management and Policy" A3: "Digital Marketing" A4: "Entrepreneurship, Innovation and Leadership" A5: "Real Estate Management" A6: "Innovation and Experience Design for Tourism" A7: "Data Science"	ER E	dditional 3 EC take at least 3  SE	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	18  18  18  18  18  18  18  18  18  18
MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization.  A1: "Tourism and Services Management" A2: "Sustainable Management and Policy" A3: "Digital Marketing" A4: "Entrepreneurship, Innovation and Leadership" A5: "Real Estate Management" A6: "Innovation and Experience Design for Tourism" A7: "Data Science" A8: A choice of enrichment courses summing up to 18 ECTS	ER E	dditional 3 EC take at least 3  SE	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	18  18  18  18  18  18  18  18  18  18
MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A3: "Digital Marketing"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"  A7: "Data Science"  A8: A choice of enrichment courses summing up to 18 ECTS  Total Module V	ER E	dditional 3 EC take at least 3  SE	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	18  18  18  18  18  18  18  18  18  18
MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization.  A1: "Tourism and Services Management" A2: "Sustainable Management and Policy" A3: "Digital Marketing" A4: "Entrepreneurship, Innovation and Leadership" A5: "Real Estate Management" A6: "Innovation and Experience Design for Tourism" A7: "Data Science" A8: A choice of enrichment courses summing up to 18 ECTS Total Module V  MODUL VI Master Thesis  Master Thesis Seminar	ER E	dditional 3 EC take at least 3  SE	7 7 7 7 7 7 7 7 7 7 7 7 7 7 9 7 9 7 9	18  18  18  18  18  18  18  18  18  18
MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization.  A1: "Tourism and Services Management" A2: "Sustainable Management and Policy" A3: "Digital Marketing" A4: "Entrepreneurship, Innovation and Leadership" A5: "Real Estate Management" A6: "Innovation and Experience Design for Tourism" A7: "Data Science" A8: A choice of enrichment courses summing up to 18 ECTS Total Module V  MODUL VI Master Thesis  Master Thesis Seminar  Master Thesis	ER E	dditional 3 EC take at least 3  SE	7 7 7 7 7 7 7 7 7 7 7 7 7 7 9 7 9 7 9	18  18  18  18  18  18  18  18  18  18
MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization.  A1: "Tourism and Services Management" A2: "Sustainable Management and Policy" A3: "Digital Marketing" A4: "Entrepreneurship, Innovation and Leadership" A5: "Real Estate Management" A6: "Innovation and Experience Design for Tourism" A7: "Data Science" A8: A choice of enrichment courses summing up to 18 ECTS Total Module V  MODUL VI Master Thesis  Master Thesis Seminar  Master Thesis Defense	ER E	dditional 3 EC take at least 3  SE	7 7 7 7 7 7 7 7 7 7 7 7 7 7 9 7 9 7 9	18  18  18  18  18  18  18  18  18  18
MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special to each specialization.  A1: "Tourism and Services Management"  A2: "Sustainable Management and Policy"  A3: "Digital Marketing"  A4: "Entrepreneurship, Innovation and Leadership"  A5: "Real Estate Management"  A6: "Innovation and Experience Design for Tourism"  A7: "Data Science"  A8: A choice of enrichment courses summing up to 18 ECTS  Total Module V  MODUL VI Master Thesis  Master Thesis Seminar  Master Thesis Defense  Total Module VI	ER E	dditional 3 EC take at least 3  SE	7 7 7 7 7 7 7 7 9 7-9 2	18  Iken from at are unique  18  18  18  18  18  18  18  18  25  2
MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special to the enrichment courses. Students completing two (or more) special to each specialization.  A1: "Tourism and Services Management" A2: "Sustainable Management and Policy" A3: "Digital Marketing" A4: "Entrepreneurship, Innovation and Leadership" A5: "Real Estate Management" A6: "Innovation and Experience Design for Tourism" A7: "Data Science" A8: A choice of enrichment courses summing up to 18 ECTS Total Module V  MODUL VI Master Thesis Master Thesis Seminar Master Thesis Defense Total Module VI  MODUL VII Internship (optional)	ER ER ER ER ER ER ER ER CC CC CC	dditional 3 EC take at least 3  SE SE SE SE SE SE SE SE SE TH TH	7 7 7 7 7 7 7 7 7 7 7 9 7-9 2	18  18  18  18  18  18  18  18  18  18
MODULE V Enrichment Courses/Specializations  A minimum of 15 ECTS from dedicated courses is required for a special to each specialization.  A1: "Tourism and Services Management" A2: "Sustainable Management and Policy" A3: "Digital Marketing" A4: "Entrepreneurship, Innovation and Leadership" A5: "Real Estate Management" A6: "Innovation and Experience Design for Tourism" A7: "Data Science" A8: A choice of enrichment courses summing up to 18 ECTS Total Module V  MODUL VI Master Thesis Master Thesis Seminar Master Thesis Defense Total Module VI  MODUL VII Internship (optional) Graduate Internship	ER E	dditional 3 EC take at least 3  SE	7 7 7 7 7 7 7 7 9 7-9 2	18  Iken from at are unique  18  18  18  18  18  18  18  18  25  2
MODULE V Enrichment Courses/Specializations A minimum of 15 ECTS from dedicated courses is required for a special other enrichment courses. Students completing two (or more) special to each specialization. A1: "Tourism and Services Management" A2: "Sustainable Management and Policy" A3: "Digital Marketing" A4: "Entrepreneurship, Innovation and Leadership" A5: "Real Estate Management" A6: "Innovation and Experience Design for Tourism" A7: "Data Science" A8: A choice of enrichment courses summing up to 18 ECTS Total Module V MODUL VI Master Thesis Master Thesis Seminar Master Thesis Defense Total Module VI MODUL VII Internship (optional)	ER E	dditional 3 EC take at least 3  SE SE SE SE SE SE SE SE TH TH PT	7 7 7 7 7 7 7 7 7 7 7 7 7 9 7 9 2 2 2	18  18  18  18  18  18  18  18  18  18



### **Appendix IV: MSc in Data Science for Sustainability**

Subject	Туре	Format	Hours per week	ECTS
Modul I Data Science	<u>.</u>	•		
Foundations of Data Science	CC	LX21	3	6
Information Visualization	CC	LX11	2	6
Computational Modeling of Social Systems	CC	LS11	2	6
Information Search and Retrieval	CC	LX11	2	6
Machine Learning I	CC	LX21	3	6
Machine Learning II	CC	LX11	2	6
Econometric Methods and Applications	CC	LS11	2	6
Total Modul I			21	42
Module II Sustainability				
Principles of Sustainability and Economic Development	CC	SE	2	6
Sustainability Analytics Project	CC	SE	2	6
Measuring and Assessing Sustainability	CC	SE	2	6
Modeling Sustainability Systems	CC	SE	2	6
Total Modul II			12	24
Module III Research Design and Methods				
Research Design and Methods in Practice	CC	SE	3	6
Total Modul III			3	6
A minimum of 15 ECTS from dedicated courses is required for a spenichment courses. Students completing two (or more) specializa specialization.				
A1: "Sustainable Management and Policy"	ER	SE	7	18
A2: "Digital Marketing"	ER	SE	7	18
A3: "Entrepreneurship, Innovation and Leadership"	ER	SE	7	18
A4: A choice of enrichment courses summing up to 18 ECTS	ER	SE	7-9	18
Total Module IV			7-9	18
MODUL V Master Thesis				•
Master Thesis Seminar	CC	SE	2	3
Master Thesis	CC	TH		25
Master Thesis Defense	CC	TH		2
Total Module V			2	30
MODUL VI Internship (optional)				
Graduate Internship	ER	PT	2	6
Industry Excellence Program	ER	PT	2	6
Total Module VI (optional)			2	6
Total			38	120