

# Syllabus

## *Course Description*

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| Course Title                   | Technology, Media and Data in Tourism, Sports and Events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Course Code                    | 30185                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Course Title Additional        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Scientific-Disciplinary Sector | IINF-05/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Language                       | German                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Degree Course                  | Bachelor in Tourism, Sport and Event Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Other Degree Courses (Loaned)  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Lecturers                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Teaching Assistant             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Semester                       | First semester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Course Year/s                  | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| CP                             | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Teaching Hours                 | 30 (lecturer to be defined)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Lab Hours                      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Individual Study Hours         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Planned Office Hours           | 9 (lecturer to be defined)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Contents Summary               | <p>This course examines the intersections of technology, media, and data in tourism, sports, and event management. Students learn to formulate research questions, collect and prepare relevant data, derive testable hypotheses from economic theory, and apply appropriate statistical and econometric methods. The course addresses emerging technologies such as blockchain and artificial intelligence, with a particular emphasis on drawing practical implications from empirical analyses. In addition, it focuses on strengthening the craft of academic work, especially regarding structure, argumentation, and the critical use of sources. Through group projects, presentations, and applied exercises, students acquire skills in research design, data analysis, and the critical evaluation of technological developments in the sector.</p> |

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| <b>Course Topics</b>                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Keywords</b>                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Recommended Prerequisites</b>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Propaedeutic Courses</b>                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Teaching Format</b>                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Mandatory Attendance</b>                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Specific Educational Objectives and Learning Outcomes</b> | <p>ILO (Intended Learning Outcomes)</p> <p>ILO 1 - Knowledge and understanding</p> <p>ILO 1.1 the basic concepts of inferential statistics: point estimation; confidence interval; hypothesis test; linear regression.</p> <p>ILO 1.2 statistical terminology</p> <p>ILO 1.3 the software available for data analysis in the social sciences.</p> <p>ILO 1.4 the mechanisms for creating and using big data and the impact on the business environment</p> <p>ILO 1.5 basic methods and algorithms for data analysis and machine learning methods.</p> <p>ILO 2 - Ability to apply knowledge and understanding</p> <p>ILO 2.1 Basic concepts that are useful for attending courses in economics, business administration, and management.</p> <p>ILO 2.2 Use mathematical tools to analyze static and dynamic models.</p> <p>ILO 2.3 Apply mathematical tools to analyze static and dynamic models with multiple variables.</p> <p>ILO 2.4 Statistical methods as useful research instruments in the social sciences.</p> <p>ILO 2.5 Use at least one statistical application to develop a simple data analysis.</p> <p>ILO 2.6 Use web services for online data analysis.</p> <p>ILO 2.7 Understand the basic principles of modern data analysis concepts, such as machine learning.</p> <p>ILO 3 - Making judgements</p> <p>ILO 3.1 Identify the most important variables to use when making decisions in complex situations;</p> <p>ILO 3.2 Report analytically and critically on information, empirical</p> |

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|                                                                                 | <p>values and data in order to make appropriate business decisions;</p> <p>ILO 3.3 Select the most appropriate quantitative and qualitative analysis tools to support decision-making;</p> <p>ILO 3.4 Find necessary additional information in databases, legal documents and scientific sources;</p> <p>ILO 3.5 Find solutions by using logical conclusions and combining information and analytical tools</p> <p>ILO 4 - Communication skills</p> <p>ILO 4.1 Graduates of the Bachelor in Tourism, Sport and Event Management will develop communication and presentation skills that enable them to explain, discuss, and summarise the complex and interdisciplinary issues of the tourism, sport, and event sectors in a professional work environment.</p> <p>ILO 4.2 Achievement of this objective is assessed by means of written examinations, group work, homework assignments, presentation of case studies and projects, and the final thesis.</p> <p>ILO 5 - Learning skills</p> <p>ILO 5.1 The ability to find up-to-date information in order to keep pace with changes in the service sector in general and in the field of tourism, sports and event management in particular;</p> <p>ILO 5.2 The ability to retrieve and utilise information from databases, research studies, legal texts, regulations and standards that are required in their professional life.</p> <p>ILO 5.3 The ability to analyse, critically evaluate and integrate data, information and experience.</p> <p>ILO 5.4 the ability to develop possible solutions to problems in the fields of economics and business administration that relate to those work contexts which represent potential career prospects for the graduates</p> |
| <b>Specific Educational Objectives and Learning Outcomes (additional info.)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Assessment</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Evaluation Criteria</b>                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Required Readings</b>                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Supplementary Readings</b>                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Further Information                  |                                                                                                                                        |
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| Sustainable Development Goals (SDGs) | Quality education, Responsible consumption and production, Sustainable cities and communities, Industry, innovation and infrastructure |