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| Course Title | **Airline network management** | | | | |
| Course Code | AVM352 | | | | |
| Course Type | Major elective | | | | |
| Level | Bachelor (1st cycle) | | | | |
| Year / Semester | 3rd Year / 1st Semester | | | | |
| Instructor's name | TBA | | | | |
| ECTS | 5 | Lectures / week | 3 Hours/14 Weeks | Laboratories / week | None |
| Course Purpose and Objectives | The purpose of the course is examine key issues of network planning and airline scheduling including economic, regulatory and performance aspects. It provides learners with the fundamentals of the aircraft selection and fleet planning process and on how to achieve the success by developing a profitable network fleet plan and an effective flight schedule. It will lead to improve the planning and management skills and understand scheduling process and tactics. | | | | |
| Learning Outcomes | Upon successful completion of this course students should be able to:<br>• Aircraft Performance and Economic Analysis<br>• Understand how company revenues and profitability depend on the network and fleet plan<br>• Data Sources and Modelling Techniques<br>• Learn key market and route forecasting<br>• Create a schedule that effectively utilizes aircraft resources<br>• Defining the Aircraft Product<br>• Evaluation of Competing Products<br>• Review passenger traffic demand, flight schedule data and optimization tools.<br>• Improve and implement flight schedules | | | | |
| Prerequisites | AVM113 | Co-requisites | None | | |
| Course Content | The material included in this course cover the following subjects:<br>• Airline economics and costs; supply and demand dynamics; passenger traffic demand and market estimation | | | | |

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| | • Different types of airline networks<br>• Mergers and alliances<br>• Processes involved in optimizing a route network<br>• Passenger traffic flow, point-to-point versus true origin-destination Route and network determinants<br>• Route profitability<br>• Schedule design and planning<br>• Airline capacity and route network strategies and optimization<br>• Fleet planning and management, operational constraints in the planning process |
| Teaching Methodology | Face-to-face |
| Bibliography | • Goedeking, P., *Networks in Aviation: Strategies and Structures*, Frankfurt, Springer Publishing, 2010.<br><br>• Burghouwt, G., *Airline Network Development in Europe and its Implications for Airport Planning*, New York, Rotledge, 2016. |
| Assessment | Examinations 60%<br>Assignment(s) 40%<br>100% |
| Language | English |