Branch:Computer Science

Code: DAENAN
Option: Data engineering and analysis
Level: Master
Prerequisites:
Opportunities:
Graduates of the Master's program in data engineering and analysis have countless career opportunities, for example in research, consulting, IT security or as data analysts or data engineers in companies in almost all sectors.

Description:
The Master's program in Data Engineering and Analysis deals with the evaluation and processing of extremely large amounts of data. What is the purpose of this study program?
The processing and evaluation of extremely large amounts of data is a pressing problem in many fields and requires entirely new techniques and processes. This trend towards "Big Data" is driven by a number of developments: Firstly, it is becoming easier to generate and store large amounts of data, thanks to cheap storage, sensors, smart devices, social networks, etc. Secondly, these large amounts of data are becoming more and more difficult to process. Secondly, these large amounts of data can also be processed on a large scale thanks to technological advances such as fast multicore systems and cloud computing. And thirdly, these volumes of data are no longer only generated by 'traditional' application areas such as business data, but are now accumulating in many,

many areas of life. For example, more and more vehicles are generating large amounts of data by means of sensors and intelligent networking, which can be used, among other things, for the development of new models or for diagnostic purposes. Intelligent control of energy networks is currently another important application area.
The MSc Data Engineering and Analytics program addresses these developments and provides an education that enables graduates to design and plan practical solutions in this area, as well as providing a solid foundation for research.

Quality and competences: