## Services for teaching, research and co-innovation

SAP University Alliances is a global program, which provides free SAP software licenses for academic purposes to over 3,000 universities worldwide. Within this program, the SAP University Competence Centers (SAP UCCs) offer technical and applicative support for SAP solutions in teaching, research and co-innovation.

In addition, the SAP UCCs develop and maintain educational materials for the didactic mediation of the corresponding technologies. While the SAP UCCs ensure 24/7 availability of complex system landscapes and support users in their application, faculty members can focus on their core competencies in teaching and research.

By using our scenario-based and practical curricula on latest SAP solutions, lecturers and students can unlock their full potential. Our comprehensive teaching materials consist of presentations, case studies and hands-on exercises. Additional teaching tools facilitate continuous student assessments and foster group discussions.

Interested? Contact us! Our experts will support you.

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# SAP BW on HANA

Teaching and Learning Environment
by **SAP UCC**

**SAP University Alliances**

**SAP UCC**
University Competence Center

TLП

OTTO VON GUERICKE
UNIVERSITÄT
MAGDEBURG

## Main features of the curriculum

The main focus of this curriculum lies on the understanding of the core data warehousing concepts and modeling techniques of SAP BW on HANA.

There are two main topics: "Use of BI" is aimed at business and management students who learn how to analyse big data. "Modeling of BI" is aimed at business computer scientists and computer science students with a focus on modeling and creating BI data modules and loading data into the BW on HANA system.

The curriculum is build on the database of the fictitious model company Global Bike and consists of teaching guidelines, ready-to-use presentations, case studies and exercises which can be used in classes or research projects. The case studies are designed for the underlying SAP BW on HANA system which is provided by SAP UCC.

## Modules for „Use of BI"

### Multidimensional analysis with Microsoft Excel
This case study focuses on performing multidimensional analysis by means of pivot tables.

### Multidimensional analysis with SAP BO Analysis
This case study comprises various tasks and techniques in order to perform a multidimensional reporting.

### Extended functions of SAP BO Analysis
This case study shows how to perform currency translation, work with calculated measures and do conditional formating.

### Designing a query - basic features
In this case study will focus on developing a query with the Eclipse based Query Designer.

### Designing a query - advanced features
In this case study the focus will be on designing an advanced query for more challenging data analysis.

### ABC Analyse
The focal point of this case study is the analysis of the customer based on their sales.

## Modules for "Modeling of BI"

### Case modeling
An Introduction to modeling tools used in SAP BW Curriculum, e.g. SAP HANA Studio, SAP GUI.

### Data acquisition
This case study shows how to load transactional data from the source system into the data acquisition layer of the Data Warehouse.

### Modeling basics
This case study teaches the basic modeling techniques.

### Master data
This case study shows how to load master data from the source system into the Data Warehouse using Data Flow.

### Enterprise Data Warehouse
This case study shows how to design an enterprise data warehouse by creating an Advanced DataStore Object with several InfoObjects.

### External hierarchies
This case study shows how to create and use external hierarchies.

### Slowly Changing Dimensions
This case study introduces the concept of slowly changing dimensions.

**Trial access**
The SAP UCCs offer a one-month trial access to SAP systems free of charge. If you are interested and for further information, please contact the SAP UCC.