

Introduction to SAP HANA						
Module Code	Workload	Credits/CP	Semester	Frequency of module		Duration
	180 h	6	1	Summer Semester		1 Semester
1	Module	Teaching Language	Contact hours	Self-study	Class size	
	Introduction to SAP HANA	English	4 SWS / 45 h	135 h	15	
2	<p>Learning outcomes After completing this course, the students are able to:</p> <p>Knowledge (1)</p> <ul style="list-style-type: none"> Describe IN-Memory computing Describe the evolution of SAP HANA Use cases and business benefits of SAP HANA Understand the product portfolio of SAP HANA and its components Big Data Management with HANA <p>Understanding (2)</p> <ul style="list-style-type: none"> Hardware and software requirement for SAP HANA SAP HANA implementation options Sizing and Licencing of SAP HANA SAP predictive Analysis Introduction to Reporting tools from SAP on HANA <p>Practice (3)</p> <ul style="list-style-type: none"> Creating different views in SAP HANA – Attribute view , Analytic view and calculation view Create a case study – dependent object, tables and views Practice in SAP HANA systems the topics discussed during the lecture <p>Evaluation (4)</p> <ul style="list-style-type: none"> Understanding of HANA concepts – Written examination Analysis of ROI, TCO, In-memory competition, big data players competition, cloud platform competition, selection priorities for a company etc. – Assignment (Presentation) To develop a concept for IN Memory computing and SAP HANA in particular. Use it to understand business reporting – Mini Project 					

3	<p>Individual component content</p> <ul style="list-style-type: none"> • HANA Basics • HANA Architecture and implementation options • Understand the product portfolio of SAP HANA and its components • Hardware and software requirement for SAP HANA • SAP Business Suite on SAP HANA • S/4 on SAP HANA • HANA Live • Data Modelling on HANA • SAP BW on HANA • Reporting and Big Data Integration • Describe IN-Memory computing and Big Data • HANA Case study
4	<p>Teaching methods</p> <ul style="list-style-type: none"> • Lectures with Demos and Customer stories • Exercises and practice in the SAP HANA System • Presentations & discussion on real time customer implementations
5	<p>Prerequisites</p> <ul style="list-style-type: none"> • Open to learn basic SQL programing and beginner level concepts of Database and operating systems
6	<p>Methods of assessment</p> <ul style="list-style-type: none"> • Presentation • Mini Project focusing on Business benefits of HANA Real time scenarios • Final written exam
7	<p>Applicability of module</p> <p>Elective in Business Consulting Masters course</p>
8	<p>Person responsible for module Prof. Dr. Thomas Marx</p> <p>Lecturer Aaloka Anant Business Process Principal Consultant, HANA services COE, SAP Ireland</p> <p>Rami Kandimalla SAP HANA Solution Architect, HANA services COE, SAP Germany</p>
9	<p>Reading list (Core texts and recommended texts)</p> <ul style="list-style-type: none"> • In-Memory Data Management: Technology and Applications by Hasso Plattner and Alexander Zeier; ISBN 978-3-642-29575-1 [link] • SAP HANA: An introduction by Dr Bjarne Berg and Penny Silvia , SAP Press; ISBN 978-1-4932-1164-7 [link] • Predictive Analysis with SAP: The comprehensive guide by John Mac Gregor; ISBN: 978-1-59229-915-7 [link] • Implementing SAP HANA by Jonathan Haun, Chris Hickman, Don Loden, Roy Wells; ISBN 978-1-4932-1176-0 [link] • Online resource: http://hana.sap.com/