Course Catalogue Engineering and ICT

EXCHANGE PROGRAMME

Data Driven Innovation 2023-2024



Course summa	ary	1/00		1		
VUE Code: 10	JT.KS.DDI	.V20	ECTS credits: 24	Lev	el: Bachelor's deg	jree (tuil-time)
		Data Driver	ninnovation			
Туре		Compulsor	у			
Learning competences		Deterduiven Innevention features on aligning Dustrates and IT and strategy of the				
	nnes	the digital f cases com Data-driven to its custo technology	innovation focuses of iuture, using data. Data bined with external da Innovation is a struct mers. It is a turning po to re-establish proces	a that is ita. tural cha oint in th sses. It c	already present a nge in the way ar inking about how hanges the busin	n organization can add value an organization uses wess model and therefore
		Organizatio gain, contro and sales. This is mor possibilities You obtain solutions a data, some a data lab,	opportunities. ons need to adapt to the ol and retention. Proce And that also creates if re and more controlled is in terms of learning a advanced knowledge nd doing research, wh times to recognize par or There are many	nis changesses ca needs fo l based o and preo about p ile work tterns, s options	ge by focusing or n be redesigned, or a new policy on on data-driven ins liction. roject manageme ing on a project fo ometimes to fore but data-driven i	n optimizing the customer's just as marketing, production security, privacy and ethics. ights. But it also offers new ent, creating business or a customer. You work with cast, sometimes to organize nnovation is the key.
Course conten	t	Data-driven Innovation projects can vary considerably. In Data-driven Innovation, every project is different, which means that the learning opportunities can vary as well. It is up to the student how you choose to shape your semester. To help the students with their projects, a number of workshops can be attended. Some of them are obligatory (e,g., project management, planning), others are elective (scrum, game design etc.). The workshops are not graded individually, but are aimed to contribute to the success of the specific projects. Students enrolled in this minor will select two Professional Skills (3ECTS each course) from our list of elective courses (Leadership, Financial Management, 7 Habits etc.) Some examples of content are: Organizing and setting up a data lab; Forecasting production based on data of the past; Machine learning; Business Process Redesign; Integration of several different systems and applications; Using data to predict the effect of climatological issues; Formulating a(n) (renewed) IT strategy and policy; Dealing with and effects of the GDPR for the organisation; IT architecture or application management. Students work on a large project for 20 weeks. The project is done for actual client or in				
activities and t methods	eaching	a real-life s project for As part of t your projec knowledge students w	etting. The multidiscip 32 hours every week (he project there are pr t and regular presenta and progress. The pro ill need to be available	olinary st Tuesday roject co ations in ofession e from M	udent teams of 3 to Friday) at sch aching sessions, which students s al skills are scheo onday to Friday o	to 5 students work on the ool or at the client's location. workshops contributing to hare their obtained duled on Mondays. Therefore luring this semester.
Recommended	d or	Only freely-	accessible learning m	aterials	are being used. V	Vhen specific hardware of
required readir	ng and	software is needed for your project, this will be provided. Sometimes a client has				
other learning	_	specific software. Use of it, and the conditions, will be discussed with the client.				
resources / too	ols					
Prerequisites a requisites	ind co-	To be able to enroll in this minor you need to have 105 ECTS and finished your propaedeutic phase.				
Level		Bachelor				
Grading scale		A – Portfol	io = 1 up to 10, 1 dec.,	Profess	sional Attitude – I	Not Achieved/Achieved
Assessment m and criteria	nethods	Type of ass	sessment		Grade weighting	Criteria
		A - Portfolio	0		1	Higher or equal to 5.5
		Profession	al Attitude		0	Higher or equal to 5.5

Language of	English
Instruction	
Name of lecturer	For information about the lecturers you can contact Wim Rietberg
Mode of delivery	Face to face