course booklet

MCI Winter Program 2024



COURSES		
course name	ECTS	
on campus classes:		
Leadership Development	3 ECTS	
Innovation & Start Up	3 ECTS	
Basics of Embedded Systems	3 ECTS	
Introduction to Artificial Intelligence	3 ECTS	
online classes:		
Digital Marketing - An Introduction	3,5 ECTS	
Digital Entrepreneurship	3 ECTS	
Business Ethics	3 ECTS	
Algorithmic Thinking	5 ECTS	

International RelationsWinter & Summer Schools



GENERAL DATA			
Course Unit Title	Winter School: Leadership Developme	ent	
Module			
Course Unit Code	IFLV6626	Type of Course Unit	ILV
Level of Course Unit	Bachelor	Year of Study	1
Semester	Fall 2023	ECTS Credits allocated	3.000
SPECIAL INFORMATION			
Name of Lecturer	Dr. phil. John Tichenor, Ph.D.		
Objective of the Course (Learning Outcomes)	 Students will examine various theori to leadership development. Students will analyze how theoretica Students will investigate cross-cultur historical and contemporary leaders. Through experiential exercises and c their strengths and refine their leaders 	l approaches impact leadersh al leadership styles and issue lass discussions, students wi	ip practices es, including
Mode of Delivery	face-to-face		
Course Contents	Whether it is in a work, family, school, or social setting, everyone is called upon to be a leader at some point. This course is designed to expose students to various leadership theories, current research, and issues relevant to leadership development. Students will also analyze how theoretical approaches impact leadership practices. Further, this course exposes students to cross-cultural leadership styles, including historical and contemporary leaders. The course wil be very interactive with many classroom activities designed to further students' understanding of what it means to be a leader. By participating in the course, students will reflect upon their leadership style to become better leaders.		
Recommended Reading	Will be provided via Sakai.		
Planned Learning Activities and Teaching Methods	The course will consist of a combination classroom activities, and a group projection of the combination of the course of the co		ns,
Assessment Methods and Criteria	Grading will be based on online quizze participation, and a culminating group		, course

Winter & Summer Schools



Course Unit Title	Winter School: Innovatio	n & Start Up	
Module		·	
Course Unit Code	IFLV6613	Type of Course Unit	ILV
Level of Course Unit	Bachelor	Year of Study	1
Semester	Fall 2023	ECTS Credits allocated	3.000
SPECIAL INFORMATION			
Name of Lecturer	Professor Enrico Baraldi		
(Learning Outcomes)	includes also identifying especially through the cr managers at all levels an mechanisms of innovatio issues: where do innovatio into successful products opportunities emerge du uncertainty and risk in th innovations be develope The course addresses th models and concepts are students to a series of pr class. Participants will al ideas in front of panel of roleplay. To successfully	nerely price competition and cost effici , creating and seizing new commercial reation of start-ups and new ventures. T ad entrepreneurs need to understand th on. This includes being able to handle to tive ideas comes from? how can they be launched on the market? which barrier rring the innovation process? how can is process be managed? how can start d in a socially responsible and sustainate e issues above in both theory and prace a first introduced by the teacher and the factical cases, discussed either in pair of so train in developing and defending the peers during an "entrepreneur-venture complete the course, participants will e teacher an own case of innovation or	opportunities, Therefore, the dynamics and the following the transformed the creativity, -ups and able way? tice. The releva en applied by the by the whole heir own start-up capitalist" have to prepar
Mode of Delivery	face-to-face		
Course Contents	1.1 NPD strategy: combin value. Identifying custom behind product innovatio The sources that stimula Product Development as BIG Idea case classroom network surrounding pro and business relationshi Product development in innovation cases (Day 1 development (Day 2) 5.2 model 5.3 Furniture case bookshelf 5.4 Classroom innovations in a network (Day 2) 7.1 The "innovat disruption 7.3 The "inno Entrepreneurship as star opportunities (Kirzner's a (Schumpeter's creativity start-ups 9.2 Starting up	vations connecting technology and ma- ning Marketing and Technology strateg her needs 1.3 Innovation: adoption and on 2. The innovation process and its so te innovations 2.2. Lead users (von Hip an innovation process: the "Innovation discussion (pre-reading required) 3. Th oduct development (Day 1) 3.1 The inte ps. 3.2 The ARA model. 3.3 Markets-as- business networks 4. Presentations of & Day 2) 5. Combining resources for pr Resource interactions around the prod s: Edsbyn's EI-Table, IKEA's Lack table discussion of the three furniture cases (Day 2) 7. Disruptive technologies and or's dilemma" (Christensen) 7.2 Mecha vator's solution" as new corporate ven ting up new businesses (Day 3) 8.1 Ide alertness) 8.2 Creating business opport) 9. New-technology based firms (Day 3) in networks 9.3 Challenges of science- born discussion of the ParAllele case 10	y: 1.2 User use. Key facto urces (Day 1) 2 pel) 2.3 New n Journey" 2.4 ne business raction model Networks 3.4 students' own roduct luct 5.2 The 4R and Billy 6. Exploiting new ventures nisms of tures 8. ntifying busine unities 3) 9.1 Spin-offs based firms: th

	10.2 Value creation, "Unique Selling Proposition" (UPS) and protection via IPRs (Intellectual Property) 10.3 Market and financial forecasts: estimating profitability (Net Present Value, NPV analysis) 10.4 Interacting with Venture Capitalists 11. Role play venture capitalists Vs entrepreneurs with own business ideas (Day 3 & Day 4) 12. Responsible entrepreneurship (Day 4) 12.1 From profit vs sustainability to profits AND sustainability 12.2 Environmental and social responsibility 12.3 Embracing external stakeholders and Building & sharing values internally 12.4 Classroom discussion of the Body Shop International case (pre-reading required)
Recommended Reading	Next to the two cases required for pre-reading (BIG Idea and Body Shop), selected r articles and book chapters will be provided upon course start.
Planned Learning Activities and Teaching Methods	Face-to face teaching. In addition, group work and class assignments will complement the overall teaching load to enable students to apply theory to professional practice. Class assignments include individual and pairwise case discussions, presentation of own example/mini-cases and role-plays.
Assessment Methods and Criteria	Exam Exam Course assessed by continuous evaluation

Winter & Summer Schools



GENERAL DATA			
Course Unit Title	Introduction to Artificial Intelligence		
Module			
Course Unit Code	IFLV6596	Type of Course Unit	ILV
Level of Course Unit	Bachelor	Year of Study	1
Semester	Fall 2023	ECTS Credits allocated	3.000
SPECIAL INFORMATION			
Name of Lecturer	FH-Prof. Dr. Stephan Schlögl		
Objective of the Course (Learning Outcomes)	 Students understand the key principles of Artificial Intelligence (AI) Students know about the History of AI and can thus identify potential future routes of development Students are familiar with the concept of an Intelligent Agent as the underlying principle of all AI systems Students are familiar with the benefits and limitations of using AI in different business settings 		
Mode of Delivery			
Course Contents	- Introduction to Artificial Intelligence - History of Artificial Intelligence - Intelligent Agents - Problem Formulation and Basic Algorithmic Analysis - Al Fields of Application		
Recommended Reading	- Russel S. Norvig P. (2021): Artificial Intelligence: A Modern Approach (4th ed). Prentice Hall.		
Planned Learning Activities and Teaching Methods	A mix of lectures, group work and han	ds-on experiences	
Assessment Methods and Criteria	Group work incl. final presentation		

Winter & Summer Schools



Course Unit Title Basics of Embedded Systems Module Course Unit Code IFLV6595 Type of Course Unit ILV Level of Course Unit Bachelor Year of Study 1 Semester Fall 2023 ECTS Credits allocated 3 SPECIAL INFORMATION Name of Lecturer DiplIng. (FH) Mathias Gfall 3 Objective of the Course (Learning Outcomes) A pre-assembled PCB (printed circuit board) includes a microcontroller (ATmega328P). This controller will be coded in C / C++. There are plenty of functions which will be used, for example: Interrupts, Timer, PWM, ADC, I2C, SPI, UART, etc. With those functions different projects can be put into practice: stopwatch, RG LEDS, IR controller, control circuits, display, relais, students will control circuits of other students remotely and wireless, etc Mode of Delivery face-to-face Course Contents The course is based on a practical assignment with focus on the programming of an electronic device: Students receive the opportunity to code many differer applications. The skills will be taught by the lecturer and afterwords they can b used in small groups to develop own functionality. Recommended Reading • Noergaard, T: Embedded Systems Architecture, Elsevier • Britton, C., Nye, P: IT Architectures and Middleware, Pearson Fachzeitschriften: • Britton, C., Nye, P: IT Architectures and Middleware, Pearson Fachzeitschriften:<				
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SPECIAL INFORMATION Name of Lecturer DiplIng. (FH) Mathias Gfall Objective of the Course (Learning Outcomes) A pre-assembled PCB (printed circuit board) includes a microcontroller (ATmega328P). This controller will be coded in C / C++. There are plenty of functions which will be used, for example: Interrupts, Timer, PWM, ADC, 12C, SPI, UART, etc. With those functions different projects can be put into practice: stopwatch, RG LEDs, IR controller, control circuits, display, relais, students will control circuits of other students remotely and wireless, etc The circuit will be explained in a way that participants are able to understand basic principals of electronic. After the lecture everybody can keep his device in order to have the ability to develop additional skills at home. Mode of Delivery face-to-face Course Contents The course is based on a practical assignment with focus on the programming of an electronic device: Students receive the opportunity to code many differer applications. The skills will be taught by the lecturer and afterwords they can b used in small groups to develop own functionality. Recommended Reading • Noergaard, T.: Embedded Systems Architecture, Elsevier • Britton, C., Nye, P.: IT Architectures and Middleware, Pearson • Hammerschall, U.: Verteilte Systeme und Anwendungen, Pearson Fachzeitschriften: • Embedded Design, TeDo-Verlag GmbH • Elektronik, WEKA Fachmedien GmbH Planned Learning Methods and group work. Collaboration and a short report.	Level of Course Unit	Bachelor	Year of Study	1
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Teaching Methodsand group work.Assessment Methods andCollaboration and a short report.CriteriaCollaboration and a short report.	Recommended Reading	 Britton, C., Nye, P.: IT Architectures and Middleware, Pearson Hammerschall, U.: Verteilte Systeme und Anwendungen, Pearson Fachzeitschriften: Embedded Design, TeDo-Verlag GmbH 		
Criteria	Planned Learning Activities and Teaching Methods		nix of lectures, discussions ar	nd individua
Language of Instruction English	Assessment Methods and Criteria	Collaboration and a short report.		
	Language of Instruction	English		



GENERAL DATA			
Course Unit Title	Winter School: Digital Marketing - An	Introduction	
Module	0 0		
Course Unit Code	IFLV0087	Type of Course Unit	ILV
Level of Course Unit	Bachelor	Year of Study	1
Semester	Fall 2023	ECTS Credits allocated	3.500
SPECIAL INFORMATION			
Name of Lecturer	Christiane Aufschnaiter, Bakk. Phil. Ph	D	
Objective of the Course (Learning Outcomes)	Christiane Aufschnaiter, Bakk. Phil. PhD This introduction to Digital Marketing (exclusively online and self-paced) explores how to harness the power of digital within the context of a marketing strategy. You will gain a fundamental understanding of the core principles of digital marketing, and be able to distinguish between traditional and digital techniques. In this course we will provide you various microlectures to gain an understanding of creating and implementing effective digital marketing campaigns. It also introduces the fundamental aspects of digital marketing and covers areas including search, digital display, email and social media marketing, as well as analytics. After attending this course, participants will understand the basics of digital marketing. In addition, the participant will know how to conduct ongoing analysis and measurement in order to manage and evaluate digital marketing efforts. The online seminar contains different teaching methods, such as microlectures, quizzes, online forum discussions, case studies, etc.		
Mode of Delivery	-		
Course Contents	• The Foundations of digital marketing Media Marketing • E-Mail-Marketing •		gies • Social
Recommended Reading			
Planned Learning Activities and Teaching Methods	Microlectures, online forum discussion	n, case studies, quizzes	
Assessment Methods and Criteria	null		



GENERAL DATA			
Course Unit Title	Winter School: Digital Entrepreneursh	р	
Module			
Course Unit Code	IFLV6614	Type of Course Unit	ILV
Level of Course Unit	Bachelor	Year of Study	1
Semester	Fall 2023	ECTS Credits allocated	3.000
SPECIAL INFORMATION			
Name of Lecturer	Thomas Key, PhD		
(Learning Outcomes)	We live in a new era of business practice, value creation and delivery. Understanding the changes relevant in the research, design, and execution of new ventures in the digital business landscape is only becoming more important.		xecution of
	This Digital Entrepreneurship course introduces students to frameworks for the creation and delivery of innovative value through digital technology. The course intended for students who want to understand and become familiar with the tools and concepts used to create a digital native business. Students choose a digital business model, revenue (price) structure, define their marketplace, create a target market persona, create a digital marketing plan, finance and growth plan, and by the end of the class pitch their concept for investment funding.		
	LEARNING OUTCOMES: - The ability to develop a strategic plar - Understand the foundation of online - Identify and classify digital business - Understand and identify different gro - Continuous improvement by staying trends and technology	innovation, value creation a models. wth strategies for digital ver	ntures.
Mode of Delivery	distance learning/e-learning		
	• The ability to develop a strategic plar foundation of online innovation, value classify digital business models. • Und strategies for digital ventures. • Contin	creation and delivery. • Iden erstand and identify differen	itify and
	on tools and techniques, trends and te		ng up to date
			ng up to date
			ng up to dat
Recommended Reading Planned Learning Activities and Teaching Methods Assessment Methods and Criteria			ng up to dat



GENERAL DATA			
Course Unit Title	Winter School: Business Ethics		
Module			
Course Unit Code	IFLV6540	Type of Course Unit	ILV
Level of Course Unit	Bachelor	Year of Study	1
Semester	Fall 2023	ECTS Credits allocated	3.000
SPECIAL INFORMATION			
Name of Lecturer	Dr. Jürgen-Matthias Seeler, Liezl Groe	newald, PhD	
Objective of the Course (Learning Outcomes)	This course aims at developing studen workplace. It moves from broader ethi in organizations. More specifically, it e understanding of identifying moral pro- measures to counter them.	cal theories to practical ethics quips students with a thorou	s challenges gh
Mode of Delivery	-		
Course Contents	• Basics of Business Ethics • Ethics Theories • Context of Business Ethics in Western Societies • Ethical Issues in Organizations • Theoretical Concepts for Ethics Implementation in Organizations • Integration of Ethics in Business Operations		
	Dr. Jürgen-Matthias Seeler : Additionally, up to four presentations topics - Moving Codes from words on in Finance - Corruption in Africa - First Microfinance in Brazil - Ethical Implicat	paper to actions in the workp Hand Experiences from Mala	lace - Ethic
Recommended Reading	Bowie, R. E. (ed.): The Blackwell Guide Malden, Oxford Frederick, R. E. (ed.): A Companion to Oxford Freeman, R. E. (1984): Strategic Manag Hall, Boston Kant, I. (1785): Grounding for the Meta Ellington, 3rd ed., 1993, Hackett, Indiar King Report on Corporate Governance http://www.library.up.ac.za/law/docs/ki Public Law 107–204, Sarbanes-Oxley-, http://www.sec.gov/about/laws/soa200 Rossouw, D./van Vuuren, L. (2010): Bus University Press (4th ed.) Shaw, W. H./Barry, V. (2006): Moral Iss Publishing, Belmont, USA	Business Ethics. Blackwell, M gement: A Stakeholder Appro physics of Moral. Translated hapolis 2009. (URL: ng111report.pdf) Act, 2002; (URL: 2.pdf) siness Ethics. Cape Town, Ox	alden, ach. Prentic by James V
Planned Learning Activities and Teaching Methods	Teaching will be a blend of classroom work on case studies will complement students applying theory to profession	the overall teaching load to e	
Assessment Methods and Criteria	Presentation Group presentation (75 % of overall gr overall grade)	ade) and Multiple Choice Tes	t (25 % of



Course Unit Title	Winter School: Algorithmic Thinking		
Module	Winter Genool. Algorithmic Hinking		
Course Unit Code	IFLV6597	Type of Course Unit	ILV
Level of Course Unit	Bachelor	Year of Study	1
Semester	Fall 2023	ECTS Credits allocated	5.000
SPECIAL INFORMATION			
Name of Lecturer	Andrea Corradini, PhD		
Objective of the Course (Learning Outcomes)	The main objective of the course is to introduce students to problem solving with a procedural approach using a high-level programming language as a resource for developing software solutions. Upon successful completion of the course, the students will be able to: discuss the importance of algorithms in the problem-solving process create algorithms for solving simple problems using procedural and possibly very basic object-oriented techniques decompose a problem into smaller pieces and/or sub-problems identify the main properties and drawback of algorithms decide on the appropriate control flow and data structure for a given problem		
Mode of Delivery	basic programming tools distance learning/e-learning		
Course Contents	Programming and problem solving are in any education program that require Understanding how a computer is inst how to solve problems using a structu strong foundation of many concepts a introduces, among others, the concept control structures along with their use	s a minimum amount of IT s ructed to accomplish tasks a red programming language nd ideas for these students. of algorithm, data types, da	kills. Ind learning provides a This course ta structure
Recommended Reading	Y. Daniel Liang, "Introduction to Java I edition, Pearson, 2020	Programming and Data Strue	ctures", 12th
Planned Learning Activities and Teaching Methods	Frontal classes and exercises		
Assessment Methods and			