

Kursangebot Frühstudium ECRI

1 SWS = 45 min
1 ECTS = 30 h / Semester

Sommersemester 2021

(alle Angaben unter Vorbehalt, Änderungen sind jederzeit noch möglich)

Stand 03.03.2021

Am ECRI werden die Vorlesungen im Sommersemester komplett virtuell durchgeführt.

Studiengang Health Informatics	SWS	ECTS	Semester	Bemerkungen	Zeit / Raum	Dozent	Inhalt
Software Development	4	5	2		ab 16.03. immer Di 0945-1115 und Do 0945-1115	Hr. Prof. Spittler	Introduction, Basics of an object-oriented programming language and revision of basic knowledge from previous courses, Basic concepts of object-oriented programming, Common concepts of advanced object-oriented programming, Graphical concepts and interaction, Parallel software techniques (optional), Data streams and serialisation (optional), Network technologies (optional), Database connection (optional)
Foundations of Health Informatics (Systems Application)	4	5	2		ab 17.03. immer Mi 1400-1700	Hr. Prof. Böhler	Introduction to Health Informatics, Communication in Healthcare, Communication systems in Healthcare, Transmission Media, Computer Networks, Network/internet/routing Protocols, Electronic Health Records and Data Standards and Exchange
ERP Systeme	4	5	4		ab 22.03. immer Mo 0945-1300	Hr. Prof. Böhler	Introduction ERP, ERP Production Planning Module, ERP Finance Module, ERP Controlling, ERP utilisation, Human Resource Management, Sales and Marketing, Customer Relationship Management, Manufacturing, Supply Chain Management Logistics, Inventory, Purchasing
Practice of Programming	4	5	4		ab 17.03. immer Do 0945-1100	Hr. Prof. Böhler	Process modelling, Process models with focus on agile development methods, Requirements engineering, Object-oriented analysis and design (OOA, OOD) using UML as an example, Design and development of selected medical application systems using modern software development environments
Studiengang International Tourism Management/ Health and Medical Tourism	SWS	ECTS	Semester	Bemerkungen	Zeit / Raum	Dozent	Inhalt
Intercultural Management in Int. Health & Medical Tourism	4	5	2		ab Di 16.03. immer 0945-1300	Fr. Prof. Cummings-Koether	Relevance of intercultural management to Intercultural management, trends and current theory, Functions of culture and how these develop, Cultural standards and how to apply these to various cultures, How stereotypes and prejudice affect international work environments, with a focus on the tourism and medical fields, Principles of effective intercultural communication and negotiations, Culture and management: organization, motivation and leadership in different cultures, Importance of internationalization for firms and challenges in context of international operations, Intercultural training, Creating a connection between the intercultural field and the tourism and medical fields, Application of intercultural theory to medical theory.
Innovation, Product Development & Service Design	4	5	4		ab Do 18.03. immer 0945-1300	Fr. Prof. Volchek	Definition and process of innovation, The spread of innovation, Product and service innovation, Service design, Conclusion & outlook
Marketing in Health & Medical Tourism I - Basic Principles and Markets	4	5	2		ab Mi 17.03. immer 0945-1300	Fr. Prof. Volchek	This module is designed to broaden the student's knowledge of marketing and strategy in the modern organization. The student will acquire a theoretical foundation through the lecture program and discussions on marketing concepts and frameworks. The module will focus on what being "market oriented" means, in practice. The module helps to understand the challenges of marketing in manufacturing and service industries: analyzing marketing environments; evaluating strategic alternatives and designing and implementing marketing programs involving decisions about products/ services, pricing, distribution and promotion.

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Medical Basics for Health Tourism Professionals	4	5	2		ab Do 18.03. immer 0945-1300	Fr. Prof. Kappelmann-Fenzl	After successfully completing the module, students will be able to understand the basic medical objectives in anatomy and physiology and biochemistry and their relation to each other to understand and describe changes in human motor skills across the lifespan to analyze the different beneficial effects of physical activity and their results on health outcomes to understand the interrelation of cognitive and motor functions in life development and the benefit of regular physical activity to understand the molecular, physical and mental alterations due to life style and environment
Studiengang Industrial Engineering	SWS	ECTS	Semester	Bemerkung	Zeit / Raum	Dozent	Inhalt
Mathematics for Engineering	4	5	2		ab Mo 15.03. immer Mo 0800-1115	Hr. Bader	Functions and Limits (functions in one variable), Differentiation (functions in one variable), Applications on derivatives, Integration, Power Series, Basics of differential geometry for plane curves, Area calculation of plane regions (bounded by a number of curves), Differentiation of functions with several variables, Multiple integrals (domain, region, area and volume integration), Fourier-Series
Physics Engineering	6	6	2		ab Do 18.03. immer 0945-1530	Hr. Prof. Kreiskott	History and Origin of Physics Unit Systems, The Newton laws of motion, Motions in several dimensions, Equations of motion, Force and Work, Work and Energy, Conservative and non-conservative forces, Energy conservation, Mechanics of mass points and systems, Linear momentum, Conservation of linear momentum, Collisions, Friction, Circular motion, Torque, Moment of inertia, Angular momentum, Conservation of angular momentum, Center of mass concept, Fundamentals of fluid mechanics, Fundamentals of thermodynamics, Phase transitions, Temperature, pressure, entropy, The laws of thermodynamics, Thermodynamic processes
Studiengang Energy Systems Engineering	SWS	ECTS	Semester	Bemerkung	Zeit / Raum	Dozent	Inhalt
Mathematics for Engineering	4	5	2		Ab Mo 15.03. immer Mo 0800-1115	Hr. Bader	Functions and Limits (functions in one variable), Differentiation (functions in one variable), Applications on derivatives, Integration, Power Series, Basics of differential geometry for plane curves, Area calculation of plane regions (bounded by a number of curves), Differentiation of functions with several variables, Multiple integrals (domain, region, area and volume integration), Fourier-Series
Electrical and Power Engineering	4	5	2		ab Do 18.03. immer 0945-1300	Hr. Prof. Matefi-Tempfli	Single and Multi-phase Systems, Electromagnetism, Magnetic Circuits, Transformers Introduction to Machine Theory, DC-Machines, AC-Asynchronous Machines, AC-Synchronous Machines, Electronic devices and circuits, Amplifiers and Op-Amps, Power Electronic devices and Switch Mode circuits, Basic Switch Mode Converter circuits, Introduction to Power Drives, Electrical Energy Systems, Power Systems

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AWPS (Allgemeinwissenschaftliches Wahlpflichtfach) - Zusatzkompetenzen	SWS	ECTS	Semester	Bemerkung	Zeit / Raum	Dozent	Inhalt
nur noch über Restplatzwahl zu Semesterbeginn (im SS 2021 von 16. bis 18. März) online über https://pmit-ext.th-deg.de/awp/login							
EcoLab-News – News from Ecology and Economy	2	2			folgt	Hr. Prof. Feicht	Development and implementation of an "information service" (newsletter, posts) in the field of sustainability and/or international politics. Preparation of current political topics, but also trends and developments in the field of sustainability for different target groups and different media.
Introduction to Sound Engineering	2	2			folgt	Hr. Prof. Kreiskott	Sound and hearing. Physical and biological foundation. Recording and reproduction of sound. Limits and artefacts. Microphone and loudspeaker types. Shaping dynamics. Compressors, expanders and gates. Their technology and artistic application. Effects and their influence on the emotional result of sound. Mixing consoles and DAWs. Principles of mixing. Analog or digital? Live sound specialities. Practical application / mixing exercises.
Sustainability in Business	2	2			folgt	Fr. Beduhn	In times of global change, when megatrends such as climate change, loss of biodiversity and increasing social tensions are becoming ever more apparent, sustainable development is at the centre of the discussion. Sustainable development starts with each individual, but it is not enough for private individuals to choose a regional vacation spot and regulate their own meat consumption. The Sustainability in Business course provides basic knowledge about sustainability in the business environment. The business case of sustainability for companies is developed and concrete methods of sustainability management are trained. Critical issues in the corporate context are addressed and discussed.
Virtuelle Kurse - zeitlich und räumlich unabhängig studieren.							
* der THD	SWS	ECTS	Semester	Bemerkung	Zeit / Raum	Dozent	Inhalt
Kurse zu: Ingenieurinformatik - Formale Sprachen und Compilerbau Ingenieurinformatik - Computer Science II (Programming in Java) Ingenieurinformatik - Webprogrammierung Ingenieurinformatik - PHP und Joomla Ingenieurinformatik - Grafikprogrammierung Ingenieurmathematik				Angebot siehe https://ilearn.th-deg.de/ Anmeldung zum Kurs per Login nach der Immatrikulation als Frühstudient an der THD			
* anderer Hochschulen	SWS	ECTS	Semester	Bemerkung	Zeit / Raum	Dozent	Inhalt
Kurse von Chemie bis Mikrobiologie, von Philosophie bis Medienrecht und vieles mehr - offene Kurse für jedermann https://open.vhb.org/				- kein Erwerb von ECTS-Punkten - ohne Einschreibung an einer Hochschule möglich			
für Frühstudierende: https://www.vhb.org/				Wählen Sie einen beliebigen Kurs. Melden Sie sich zum Frühstudium an der THD an und belegen Sie Ihren Kurs kostenfrei und bei freier Zeiteinteilung.			