

:: Module Handbook ::

:: Master of Science (M.Sc.) in Digital Media ::

Course	e of Study	2
Comm 1. 2. 3. 4.	0	4 5 6 7
•	lization Area Modules (Semester 2) cialization Area - Media Development Processes Computer Graphics Ubiquitous Computing Web and Multimedia Design	8 9 10
8. 9.		11 12 13
Spe 11. 12. 13.	Collaborative Work	14 15 16
14. 15. 16. 17. 18. 19.	Artificial Intelligence Game Design E-Culture Digital Libraries Media Streaming	17 18 19 20 21 22 23 24 25 26
Key Co	ompetences Modules (Semesters 1-3)	
22. 23.	Research Methodology (Semester 1) Intercultural Project Management (Semesters 2 + 3)	27 28

Semester 1	Semester 2	Semester 3	Semester 4
	Specialization Area I "Media Development Processes" 12 CP	Electives "Digital Media Applications" 16 CP	
Common Ground			
26 CP	Specialization Area II		Master Thesis
	"E-Business" or "Work-Design" 12 CP	Study Abroad 12 CP	30 CP
Key Competences	Key Competences		
4 CP	6 CP	Key Competences 2 CP	

Course of Study

1. Semester – Common Ground

Four mandatory modules must be completed to establish a foundation or "common ground" in Digital Media for further studies. Additional key competences are acquired in the mandatory module "Research Methodology".

- Common ground modules
 - Media Technology (8 CP)
 - Information Systems (6 CP)
 - Interaction Design (8 CP)
 - Media and Society (4 CP)
- Key competences module
 - Research Methodology (4 CP)

30 CP will be acquired in the first semester.

2. Semester - Specialization

In the second semester, students deepen their knowledge in two specialization areas of Digital Media, each consisting of three mandatory modules. Besides the mandatory specialization area "Media Development Processes", one of the two specialization areas "E-Business" and "Work Design" can be selected. Additional key competences are acquired in the mandatory module "Intercultural Project Management".

- Mandatory specialization area: Media Development Processes (12 CP)
 - Computer Graphics (4 CP)
 - Ubiquitous Computing (4 CP)
 - Web and Multimedia Design (4 CP)
- Specialization area*: E-Business (12 CP)
 - E-Business in Networked Economies (4 CP)
 - Market Communication in E-Commerce (4 CP)

- IT-Security and Intellectual Property (4 CP)
- Specialization area*: Work Design (12 CP)
 - Organizational Psychology (4 CP)
 - Collaborative Work (4 CP)
 - Learning and Qualification (4 CP)
- Key competences module
 - Intercultural Project Management (6 CP in semester 2; continued with 2 CP in semester 3)

* One of the two specialization areas "E-Business" or "Work-Design" must be selected.

30 CP will be acquired in the second semester.

3. Semester – Electives and Study Abroad

In the third semester, students freely select among the modules of the electives course catalogue "Digital Media Applications", for a mandatory total of 16 CP. Further, a three month study abroad or, alternatively, a research-oriented or industry internship related to the field of Digital Media must be completed. Key competences are acquired in the mandatory module "Intercultural Project Management" (continued from the second semester).

- Complete a free choice of modules from electives catalog "Digital Media Applications" (at least 16 CP):
 - Digital Film and Video Production (4 CP)
 - Digital Music Production (4 CP)
 - Artificial Intelligence (4 CP)
 - Game Design (4 CP)
 - E-Culture (4 CP)
 - Digital Libraries (4 CP)
 - Media Streaming (4 CP)
 - Selected Topics in Digital Media (4 CP)
- Study Abroad (12 CP)
- Key competences module
 - Intercultural Project Management (2 CP; cont'd from semester 2)

At least 30 CP must be acquired in the third semester.

4. Semester – Master Thesis

• Master Thesis (30 CP)

30 CP will be acquired in the fourth semester.

Grading and Examination Modalities:

In all semesters, grades are assigned to modules, not to individual courses. Module grades are based on a written or oral final module examination without any external resources. Written module exams last 60 – 180 minutes, and oral module exams 15 – 40 minutes. For further details, please refer to the ISNM MSc Digital Media Examination Regulations.

1. Module "Media Technology"					
Duration: 1 semester	Offered: regularly	Study seme 1 st semester	e ster: r	Credit points: 8	
Module group: Co	mmon Ground		Mode: man	datory	
 Self study: 	hours (lecture; lat 160 hours (oral ex < preparation, repo iours	am and prepa	ration, lab wo	rk preparation,	
	Systems (48 class Theory & Data Co			/ semester)	
 Understand Learning ar Understand Learning pr 	damental knowled ing the principles chitectures and m ing the principles	of digital medi echanisms of of information ards for audio	a processing digital multime theory , image, and	and transmission	
Course contents: Introduction to media technology and computer technology Introduction to I/O-devices Introduction to digital media formats and color theory Introduction to information theory Overview of audio, image, and video compression algorithms and standards Introduction to digital multimedia applications 					
Examination modalities: Oral or written module exam. Prerequisites: seminar presentation and written report, exercises.					
Module coordinator: Prof. DrIng. A. Schrader					

2. Module "Information Systems"						
Durati 1 sem		Offered: regularly	Study seme 1 st semeste	ester: r	Credit points: 6	
Modu	le group: Co	mmon Ground		Mode: man	datory	
Workl o o	 Self study: 108 hours (oral exam and preparation, web programming assignments, read materials) 					
Cours o	Information	Systems and the mming (24 class			hours / semester)	
Qualif o o o o o o	 support the world wide web Understand the information modeling process and learn how data models serve as specifications of information systems Understand the core concepts and principles of relational databases Understand the process of creating interactive web sites Understand different architectures of web-based information systems Understand the core principles of XML-based web services 					
Course contents: Introduction to concepts, components, and architecture of Internet-based information systems Introduction to information modeling Introduction to relational databases Concepts of web programming Introduction to XML and the semantic web Web Programming, e.g. using HTML, PHP, and SQL 						
	Oral or written module exam. Prerequisites: web programming exercises.					

Module coordinator: Prof. Dr.-Ing. A. Schrader

3. Module "Interaction Design"					
Duration: 1 semester	Offered: regularly	Study seme 1 st semeste	e ster: r	Credit points: 8	
Module group:	Common Ground		Mode: n	nandatory	
 Self stud 	s, smaller home as	paration of semin	ar talk, co	mposition of report, read	
	ommunication (60 Computer Interacti			ster)	
 Human Computer Interaction (32 class hours / semester) Qualification objectives: Learn about basic principles and techniques of visual design Understand the design process for both print and screen design Learn about the difference between personal preferences and designing for a target audience Understand the cognitive and technological aspects of Human-Computer Interaction and how this relates to different interaction styles Develop an understanding of how new paradigms of computing extend current desktop interfaces Course contents: Introduction to visual communication (incl. typography and color theory) Role of storytelling and animation in interface design Cognitive and technological aspects of Human Computer Interaction (HCI) Advanced user interfaces and computing paradigms, e.g. virtual & augmented reality, ubiquitous computing, etc. 					
 Affective user interfaces Examination modalities: Oral or written module exam. Prerequisites: seminar talk plus written report; exercises. Module coordinator: Prof. DrIng. A. Schrader. 					
Module coordinator: Prof. DrIng. A. Schrader					

4. Module "Media and Society"					
Duration: 1 semester	Offered: Regularly	Study semester:Credit poin1 st semester4			
Module group: Common Ground Mode: mandatory					
 Self study: ¹ exams) Total: 120 h 	nours			r presentation and	
 Media and Society (48 class hours / semester) Qualification objectives: Understand the role of new media in society Understand core concepts and critical issues in new media studies Understand the (r)evolution from technical reproduction to the digital generation Develop critical thinking toward new media developments Learn to analyze new media developments and their social and political implications 					
 Course contents: History of media: old and new media Key theories and concepts in new media studies, e.g. on identity (gender, age, ethnicity, class, nation), archives & memory, aethetics & culture Media and globalization, ICT4D and sustainability, the Digital Divide Network philosophy Media art(s) and culture Media law 					
Examination modalities: Oral or written module exam. Prerequisites: seminar presentation, small projects, small written reports.					
Module coordinat	or: Prof. Dr. rer.	nat. habil. J. Ha	sebrook		

5. Module "Computer Graphics"					
Duration: 1 semester	Offered: regularly	Study semes 2 nd semester	ster:	Credit points: 4	
Module group: Medi	a Development Proc	cesses	Mode: ma	ndatory	
 Self study: 72 	ours (lecture, exercis hours (read materia paration for oral exa urs	als; home assig	nments; co	mpletion of term	
	aphics (32 class hou aphics Exercises (16		semester)		
 Understand here rendered to in Understand th Develop an ur 	 rendered to images Understand the core principles and methods of computer animation 				
Course contents: 3D Modeling using surfaces and solids Local and global rendering methods Animation methods – from key framing to cognitive animation Introduction to virtual reality Virtual humans 					
Examination modalities: Oral module exam. Prerequisites: usually based on a student project, involving the creation of a nontrivial 3D model, e.g. in the domains of cultural heritage, media art, or another topic related to current research in the Virtual Reality & Ubiquitous Computing Lab. In addition, students are expected to complete several smaller modeling and animation tasks.					
Module coordinator	: Prof. DrIng. A. Sc	chrader			

1 sem	i on: ester	Offered: regularly	Study seme 2 nd semeste	e ster: r	Credit points: 4
Module group: Media Development Processes Mode: mandatory					
Workl o o	In class: 40 ho	hours (project v)	minar, project pre vork, seminar talk		, report editing,
Cours o		mputing (40 cla	ss hours / semest	er)	
 Qualification objectives: Understand historic and current trends in computing – from mainframes over personal to ubiquitous computing Understand the principles and differences of mobile, pervasive, and ubiquitous computing Understand the social implications of ubiquitous computing Ability to define and design context aware services 					
 Course contents: Overview of computer technology developments (wearable computer, sensor networks, smart dust) Taxonomy of mobile, pervasive, and ubiquitous computing Presentation of ambient intelligence applications Introduction to ubiquitous computing infrastructures Overview of location-tracking technologies 					
Oral o involvi mobile infrast	ng the creation computing infra	e exam. Prereque of a context-aw astructure. Usus irtual Reality &	uisites: usually bas are service based ally the work is en Ubiquitous Compt	l on location nbedded wit uting Lab. In	tracking and hin activities and addition, student

7. Module "Web and Multimedia Design"					
Duration: 1 semester	Offered: regularly	Study semester: 2 nd semester	Credit points: 4		
Module group: Digi	tal Media Applications	Mode: mandatory			
	/		,		
Courses: o Web and Mu	ltimedia Design (48 clas	s hours / semester)			
 Understand r Ability to app other digital r Learn how to 	he user-centered design nethods and tools of we ly design process conce	b design pts to the production ack, improve design r	of web-based and results in synergetic		
Course contents: Introduction to usability design tools User scenarios and use cases Process flow Visual design concepts and web page templates Functional Specification Adaptive and adaptable interfaces Adaptation to output media Prototyping Focus group testing Designing for different media (e.g. DVD, interactive television, information kiosks) Barrier free access to media (e.g. barrier free web) 					
Examination modalities: Oral or written module exam. Prerequisites: project work including project report.					
Module coordinato	Module coordinator: Prof. DrIng. A. Schrader				

8. Module "E-Business in Networked Economies"				
Duration: 1 semester	Offered: regularly	Study semester: 2 nd semester	Credit points: 4	
Module group: E-Bu	siness	Mode: mandatory elective specialization area E-Bus		
	,	inar) rials, preparation of semina	ar presentation and	
		enterprises (24 class hours siness (24 class hours / ser		
 Overview of re Understand te 	effective manage gional, national a chnologies for vir	and networked economies	rk analyses	
 Course contents: Principles, tasks, and tools of effective management Models for technology, information and innovation management (incl. enterprise resource planning) Value chains, supply chains, and relationship management Economies of scale, economies of scope Network effects and theories of markets Business life cycle models, due diligence, and business planning Application to benchmarking, network and cluster analyses Technical options assessment 				
Examination modalities: Oral or written module exam. Prerequisites: seminar presentation plus written report.				
Module coordinator:	Prof. Dr. rer.nat.	habil. J. Hasebrook		

9. Module "Market Communication in E-Commerce"				
Duration: 1 semester	Offered: regularly	Study semester: 2 nd semester	Credit points: 4	
Module group: E-Bu	usiness	Mode: mandatory elect specialization area E-B		
	·	minar) terials, preparation of ser	ninar presentation and	
		ries (class hours / seme ngine Optimization(class		
 Overview of t Basic technol 	g theories and m ousiness models ogies in e-comm	nodels in marketing, sales in e-commerce erce & online marketing ntercultural marketing in	-	
 Course contents: Economical standard models of a company (e.g. Porter's value chain, five forces) Business analysis (critical success factors, generic strategies / strategy grids) Development of e-commerce (life cycle models, cost models, market analysis) Business applications (role of marketing, sales & advertisement, branding & band equity) Electronic marketing (modes & technologies of e-marketing, mobile marketing, cross-media applications, measurement & optimization of online marketing) Electronic market places (market research, community building, customer life cycle, prizing models) 				
	le exam. Prerequ	lisites: seminar presentat	ion plus written report.	

Module coordinator: Prof. Dr. rer. nat. habil. J. Hasebrook

10. Module "IT-Security and Intellectual Property"					
Duration: 1 semester	Offered: regularly	Study semester: 2 nd semester	Credit points: 4		
Module group: E-	Business	Mode: mandatory electron specialization area E-	ctive (i.e. mandatory in Business)		
 Self study: a report) 	 In class: 40 hours (lecture, seminar) Self study: 80 hours (read materials, preparation of seminar presentation and report) 				
Courses: o IT-Security	(40 class hours / se	mester)			
 Understand Understand Understand Understand Application 	 Understanding core principles and technologies in IT security Understanding technical and economical risk and impact analyses 				
 Course contents: Legal framework and international comparison for privacy, security, and IPR Technologies for security and IPR protection (incl. cryptography, watermarking) Risk analyses and risk management Impact analyses and recovery planning Application of IPR protection and DRM to business cases 					
Examination modalities: Oral or written module exam. Prerequisites: seminar presentation plus written report.					
Module coordinator: Prof. Dr. rer. nat. habil. J. Hasebrook					

	group:					
Workloa	• •	Work Design	Mode: mandatory ele in specialization area			
o S o S	 Self study (a): 45 hours (read materials, prepare seminar presentation) Self study (b): 27 hours (prepare final exam) 					
Courses o C	-	ational Psychology (48 cla	ass hours / semester)			
 Overview of history, philosophy and values of work Discuss meaning of work in different cultures Understand models of corporate cultures Understand models and technologies for human capital formation and human resource management Application of digital media to human resource and competence management 						
 Course contents: Economical, cultural, and technological history of work Philosophical models of work, production, and action Models of organizational and work psychology Learning organization and organizational learning Models of leadership, empowerment, creativity, and innovation Human Resource Management (HRM) and Development (HRD) Intellectual capital measurement and management Technological models of knowledge and competence management Social network theories 						

Workload: • In class: 36 hours (lecture, seminar) • Self study (a): 50 hours (read materials, prepare seminar presentation) • Self study (b): 34 hours (prepare final exam) • Total: 120 hours Courses: • Collaborative Work (36 class hours / semester) Qualification objectives: • Overview of models for cooperation, coordination, and collaboration • Understand models of team work and team building • Discuss special issues of multi- and inter-cultural team work • Understand impact of computers on work flows and team work Course contents: • Modes, modalities, and models of collaboration (incl. aspects of communication theories) • Overview technologies for cooperation (CSCW, CWDS, DSS) • Technical applications for CSCW (video conferencing, SWOF, collaboration Social models for group decision making (e.g. risky shift, group think) • Models and technologies for work process and business engineering • Models and findings on diversity at the work place • Cultural factors and intercultural teams (e.g. Hall, Laurent, Hofstede, Trompenar) • Social and economical impact of international collaboration technologies	Duration:Offered:1 semesterregularly		Study semester: 2 nd semester	Credit points: 4			
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Written module exam. Prerequisites: scientific group work / presentation (e.g.	Fxam	ination modaliti	PS.				
				scientific aroun work / n	resentation (e.a.		
				.	issemation (e.g.		
	Modu	le coordinator:	Prof. Dr. rer. na	at. habil. J. Hasebrook			
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 Workload: In class: 48 hours (lecture, seminon Self study: 72 hours (read materine port)) Total: 120 hours Courses: Learning and Qualification (48 classification objectives: Overview of global trends in learning Understand models and theories of Discuss applications of theories to Apply flexible distance and collate Understand and compare learning differences in learning styles Course contents: International trends, technologies Global educational markets, brain Memory systems: short / long ter Theories of learning: behavioral, Overview of psychological model auditory pathway, evolution of brain theories of History and psychology of learning Paradigms of computer-supporte Aptitude-Treatment-Interaction (A adaptable and adaptive multimed 	specialization area Wo nar) rials, preparation of ser lass hours / semester) rning systems and tech s of learning and memo to media-based learnir	minar presentation and					
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	Models and technologies for collaborative and intercultural learning styles						
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interactive learning environments	If-learning systems (ind						
Examination modalities:	If-learning systems (ind						
Oral or written module exam. Prerequisit	If-learning systems (inc s)						

14. Module "Digital Film and Video Production"					
Duration: 1 semester	Offered: regularly	Study sen 3 rd semest	nester: er	Credit points: 4	
Module group: Media Development Processes Mode: optional					
 Workload: In class: 40 hours (lecture; lab introduction) Self study: 80 hours (film shooting, cutting, editing, post-processing, presentation) Total: 120 hours 					
Courses: o Digital Film ar	nd Video Production	(40 class h	ours / seme	ester)	
Qualification objectives: • Understand basic principles of film production • Learn to use video and film production equipment • Practice video cutting and sound editing					
Course contents: • Overview of film history • Introduction to camera handling and film shooting • Introduction to digital film editing • Introduction to post processing techniques and special effects • Discussion of new and expanded cinema concepts					
Examination modalities: Oral or written module exam. Prerequisites: in a workshop setting students have to create an own video product including camera work, film cutting, sound editing and post processing. The theme of the workshop is usually inter-disciplinary, combined with other courses at the ISNM.					
Module coordinator: Prof. DrIng. A. Schrader					

15. Module "Digital Music Production"					
Duration: 1 semester	Offered: regularly	Study sem 3 rd semeste	ester: er	Credit points:	
Module group: Digi	tal Media Application	ns	Mode: opt	ional	
 Workload: In class: 40 hours (lecture; lab introduction) Self study: 80 hours (sound material preparation, composition, recording, mixing, post-processing, presentation) Total: 120 hours Courses: Digital Music Production (40 class hours / semester) Qualification objectives: Understand the principles of music production Get an overview of music production technologies Understand how to use a digital studio environment 					
 Introduction t 	o music notation me o digital studio envir o sequencer and sy lities: le exam. Prerequisit product using micro ent including seque	ronments nthesizer tes: in a work ophones, rea	shop setting	g students have to instruments and	
Module coordinato	r: Prof. DrIng. A. S	chrader			

16. Module "Artificial Intelligence"						
Duration: 1 semesterOffered: regularlyStudy semester: 3rd semesterCredit points: 4						
Module group: Applications	Digital Media		Mode: optiona	al		
 Workload: In class: 40 hours (lecture, seminar) Self study: 80 hours (read materials, preparation of seminar presentation and written report) Total: 120 hours 						
Courses: o Artificial						
Qualification objectives: o Understand concepts and methods of Artificial Intelligence (AI) o Understand how AI can enhance digital media o Learn to apply AI methods to digital media						
Course contents: Intelligent agents and agent architectures Search and problem solving Knowledge representation and ontologies Image analysis and computer vision Machine Learning Intelligent multimedia 						
Examination modalities: Oral or written module exam. Prerequisites: seminar talk, lab sessions and assignments.						
Module coordii	Module coordinator: Prof. DrIng. A. Schrader					

17. Module "Game Design"					
Duration: 1 semester			ster:	Credit points: 4	
Module group: Digi	tal Media Applic	ations	Mode: opti	ional	
) hours (game d	-class project disc evelopment projec			
Courses: o Game Design	n (40 class hours	s / semester)			
 Qualification objectives: To provide students with a thorough understanding of the history and types of digital and non-digital games Understand core principles of the game development process Understand core principles of online and physical interaction and communication in multi-player games Learn about new paradigms and challenges in game design, mainly in mobile and pervasive gaming 					
 Course contents: Game theory, homo ludens History and genres of digital games Game development process, design documents Digital Storytelling, narrative structures New trends in game design: mobile, pervasive, tangible, and augmented reality games 					
Examination moda Oral or written modu development) with p development of a dig testing.	le exam. Prereq roject report. Th	e student project u	usually involv	ves the	
Module coordinato	rs: Prof. DrIng.	. A. Schrader			

18. Module "E-Culture"					
Duration: 1 semesterOffered: regularlyStudy semester: 3 rd semester				Credit points: 4	
Module group: Digi	tal Media Applicatio	ons	Mode: opti	onal	
 Workload: In class: 40 hours (lecture, seminar) Self study: 80 hours (read materials, preparation of seminar presentation and written report) Total: 120 hours Courses: 					
o E-Culture (40) class hours / sem	ester)			
Module coordinato	r: Prof. Dr. rer. nat.	habil. J. Hasel	brook		

19. Module "Digital Libraries"						
Duration: 1 semester	Offered: irregularlyStudy semester: 3 rd semester		ster:	Credit points: 4		
Module group: Digi	tal Media Application	S	Mode: opti	onal		
 Workload: In class: 40 hours (lecture; seminar, project presentation) Self study: 80 hours (project work, seminar talk preparation, report editing, read materials) Total: 120 hours Courses: 						
 Digital Librar 	ies (40 class hours /	semester)				
Qualification objectives:oUnderstand the technical and social aspects of librariesoUnderstand the main principles of digital library creation and managementoLearn how to combine traditional physical libraries with new media technology						
 Course contents: Overview of library and archive history Definition of digital, virtual, electronic, and hybrid libraries Introduction to new technology trends for digital libraries Introduction to ontologies 						
Examination modalities: Oral or written module exam. Prerequisites: usually, in a student project new library services will be designed and implemented using equipment of the Virtual Reality & Ubiquitous Computing Lab. In addition, students have to provide a seminar presentation and report.						
Module coordinato	r: Prof. DrIng. A. So	chrader				

20. Module "Media Streaming"						
Duration: 1 semester	Offered: irregularly	Study semes 3 rd semester	ster:	Credit points: 4		
Module group: Digital Media Applications Mode: optional						
 Workload: In class: 40 hours (lecture; seminar) Self study: 80 hours (oral examination preparation, seminar talk preparation, report editing, read materials) Total: 120 hours 						
Courses: o Media Strea						
Qualification objectives: • Understand underlying principles of real-time multimedia distribution • Understand the technologies for media streaming in the Internet • Learn how to realize a media streaming infrastructure Course contents: • • Introduction to streaming technologies • Overview of streaming applications and standards • Introduction of media adaptation and filtering strategies • Introduction to Content Delivery Networks (CDN) and Quality-of-Service						
(QoS) Architectures Examination modalities: Oral module examination. Prerequisites: seminar presentation and report.						
Module coordinate	or: Prof. DrIng. A. S	Schrader				

21. Module "Selected Topics in Digital Media"*						
Duration: 1 semester		Offered: irregularly	Study ser 3 rd semest	nester: ter	Credit points: 4	
Modu	le group: Digi	al Media Applicatior	IS	Mode: op	tional	
Workl o o	 Self study: 80 hours (project work, seminar talk preparation, report editing, read materials) 					
Cours o		ics in Digital Media (40 class ho	ours / seme	ster)	
Qualif o o						
Course contents: The content of this lecture is dynamic and depends on the developments of technology and research in all areas of the ISNM curriculum. Possible topics are: Interactive digital television New networking trends (sensor networks, grid computing, smart dust, etc.) New hardware trends (electronic paper, optical computing, etc.) Trends in intelligent systems Multimodal communication Ambient intelligence Cryptography and electronic payment Etc. 						
Examination modalities: Oral or written module exam. Prerequisites: typically, the participants have to perform a seminar presentation and report. Alternatively, project work and project report.						
*Note:	Module coordinator: Prof. DrIng. A. Schrader *Note: Examples of two possible courses in "Selected Topics in Digital Media" are outlined below.					

21. Module "Selected Topics in Digital Media" – Example: "iTV"

Duration: 1 semester		Offered: irregularly	Study semester: 3 rd semester		Credit points: 4	
Modu	le group: Digita	al Media Applications		Mode: o	ptional	
 Workload: In class: 40 hours (lecture and project presentation) Self study: 80 hours (project work, read materials) Total: 120 hours 						
Courses: • Selected Topics in Digital Media – iTV (40 class hours / semester)						
 Introduction into core concepts of current/future television standards Overview of interaction mechanisms in broadcast media Analysis of convergence trends between broadcast and Internet media 						
 Course contents: History and Development of Television Technology Digital Television DVB-T/S/C/H – Digital Video Broadcasting for Antennas, Satellites, Cables and Handheld Computers DMB/DAB – Streaming Standards MHP – Multimedia Home Platform Personalization Interaction Mechanisms and Feedback Channels CDN – Content Distribution Networks Adaptive Multimedia Streaming - Filtering/Scaling/Adaptation, QoS IPTV – Internet Television 						
Examination modalities: Oral module examination. Prerequisite: project work in form of a design of an interactive museum television program (in cooperation with a Lübeck museum).						

Module coordinator: Prof. Dr.-Ing. A. Schrader

21. Module "Selected Topics in Digital Media" - Example: "Social Computing & Web 2.0"						
Duration: 1 semester	Offered: irregularly	Study semester: 3 rd semester		Credit points: 4		
Module group: Digit	Module group: Digital Media Applications			Mode: optional		
 Workload: In class: 40 hours (lecture; seminar or project presentation) Self study: 80 hours (seminar talk preparation, report editing, read materials) Total: 120 hours 						
Courses: o Social Comp						
Qualification objectives:oUnderstand basic principles of the "Social Web"oOverview of current tools for the "Social Web"oAnalysis of major development trends in the "Social Web"						
Examination modalities: Oral module exam. Prerequisites: seminar presentation and report based on project or research work.						
Module coordinator: Prof. Dr. rer. nat. habil. J. Hasebrook						

Duration: 1 semester		Offered: Regularly	Study sem 1 st semeste	ester: er	Credit points: 4			
Module group: Key Competences				Mode: mandatory				
Workl								
0		hours (lecture)						
0					al exercises; prepare			
0	T / 1 / 00'1		emic study or the	3515)				
0								
Cours			,					
0	Research M	ethodology (40	class hours / ser	nester)				
Qualif	ication object	tives:						
0	Overview of historical development of scientific methods							
0	Introduction to statistical hypothesis testing							
0		of scientific writi	ng standards (au	thor guide	elines, quotes,			
	references)							
0	Understanding qualitative and quantitative research methods applied to							
	selected pro	blems in techno	ology, humanities	s, and eco	onomics			
Cours	e contents:							
0	Foundations	of scientific rea	asoning (inductio	n, deducti	ion, Greek philosophy)			
0	Emergence of natural science (scholastics, Occam's razor, Newton's							
					Goedel's critique)			
0	 Modern theories of science (For and against method: K.Popper, 							
		nd, T.Kuhn, "Sci						
0	5 7 5 7 7 7							
	field study, H0/H1, alpha-/beta-error, power) Descriptive and inference statistics (scales, distributions, centrality,							
0			atistics (scales,	aistributio	ns, centrality,			
-	dispersion, t		anautia driva" aa	ntont one	lucia action recearch)			
0					alysis, action research)			
0	 Application of research methods to individual proposals (academic study / thesis) 							
	ination moda							
Writte	n module exa	m. Prerequisites	s: individual scier	ntific prop	osal (study / thesis).			

23. Module "Intercultural Project Management"							
Duration: 1 semester	Offered: regularly	Study semesters: 2 nd – 3 rd semester		Credit points: 8			
Module group: Key	Competences		Mode: mandatory				
 Workload: In class: 88 hours (lecture, seminar, discussion of project work) Self study: 152 hours (read materials, prepare seminar talk and report, smaller assignments, project work) Total: 240 hours 							
 Courses: Cross- and Intercultural Project Management (32 class hours / 2nd semester) Intercultural Studies and the New Media (32 class hours / 2nd semester) Self-Engineering (24 class hours / 3rd semester) 							
 Self-Engineering (24 class hours / 3rd semester) Qualification objectives: Understand core concepts and critical issues of cross and intercultural project management Ability to understand and apply international project management standards Ability to apply relevant aspects of intercultural studies to team work and management Understand core concepts and critical issues in intercultural studies in relation to the new media Develop personal qualities and abilities in self-management and team work Course contents: Structures of project management standards of the project management institute (PMI): use and benefits Life cycle and management models Computer tools in project management and their effective use Intercultural aspects of media, particularly new media History and interdisciplinary concerns of intercultural studies, involving cultural anthropology, social psychology, communication studies Development of personal capabilities necessary for effectiveness in the 21st century System engineering applied to self management; stress management 							
Examination modalities: Oral or written module exam. Prerequisites: seminar presentation plus written report or practical project work. Alternatively, a group work or study can be turned in (individual contributions of each team member must be clearly identified). Regular and active class participation.							
Module coordinator: Prof. Dr. rer. nat. habil. J. Hasebrook							