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## Le LMD en Grande Bretagne et Allemagne (The Bologna process in the UK and Germany)

- Dr. Marc Conrad, *University of Luton*
  - Marc.Conrad@luton.ac.uk
  - These slides are available at:
    - <http://perisic.com/bologna>

Disclaimer:  
 All information without warranty.  
 Evidence is anecdotal.

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## Some words about me

- Born & PhD in Germany (Saarland)
  - (Mathematics)
- Since January 2001: England, first in Southampton, later in Luton
  - (Computer Science)
- Currently Senior Lecturer at the University of Luton.
  - <http://luton.ac.uk>
- Contacts to the Saarland (2x) and Brandenburg (all in Germany).
  - <http://www.fh-brandenburg.de>
  - <http://www.htw-saarland.de/>
  - <http://www.uni-sb.de>

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## Overview

- Introduction** ← We are here
- BSc degrees
- Modularization
- Module descriptions
- MSc / Master
- 10 steps towards an international degree.

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## Some general observations about Curriculum Development in Germany/England

- England:
  - Driven by: Job market (employer needs), competition between (British) universities for students (also overseas), also BCS (British Computer Society)
- Germany:
 

International => China, India, ...

  - Driven by the HRK (Hochschulrektorenkonferenz) and academic demands, influence of employers is increasing.

International => Teaching in English Language

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## From the National Reports 2005 (<http://www.bologna-bergen2005.no/>)

- "The UK has had a high level of engagement in seminars and debates relating to Bologna, and is closely involved in developing the Bologna Process. The basic structure of UK degrees already conforms to the Bologna model of three main cycles of Bachelors, Masters and Doctoral degrees." (UK)
- "Germany's *Länder* (states) aim to switch to the two-cycle system by 2009/2010. Bachelors and Masters courses currently constitute some 26.3 per cent of available degree programmes." (Germany)

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## Overview

- Introduction**
- BSc degrees** ← We are now here.
- Modularization
- Module descriptions
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- 10 steps towards an international degree.

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**7 BSc (hons) degrees England (Luton)**

- Lots of degrees, e.g. (2004)
  - Computer Science
  - Computer Games Development
  - Computer Graphics
  - Computer Networking
  - Computing (semester 2 start)
  - Computing & Information Technology (part-time)
  - Information Systems Development
  - Internet Computing
  - Software Engineering

■ But same modules are used in different degrees (advantage of modularisation).

*This list is likely to change next year (e.g. Mobile Computing) and in the following years.*

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**8 BSc degrees Germany (better: B. Sc.)**

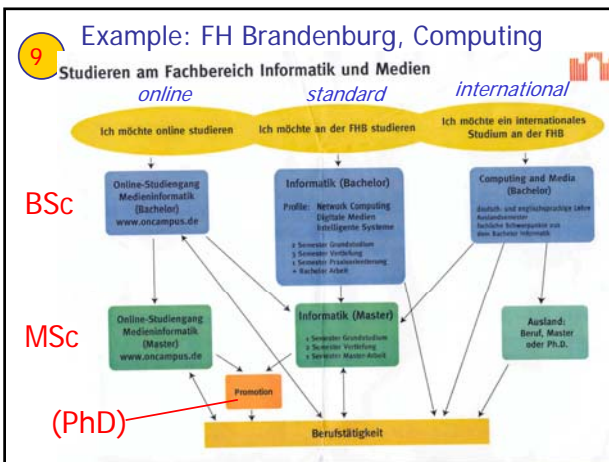
- FH Brandenburg
  - Informatik
  - Medieninformatik (online)
  - Computing and Media (international)
- HTW Saarbrücken
  - Kommunikationsinformatik
- Universität des Saarlandes
  - BSc Informatik

■ Small number of programmes

■ Very distinctive

*This list is comparatively stable. New programmes may be added following a lengthy process*

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**10 BSc Curricula: England vs. Germany**

- Naming:
  - BSc (hons) [England] vs. BSc [Germany]
- Number of courses per University
- England: Frequent change in programmes; driven by market demand.
- Germany: Programmes driven by academic research and new technologies.

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**11 Overview**

- Introduction
- BSc degrees
- **Modularization**
- Module descriptions
- MSc / Master
- 10 steps towards an international degree.

*This is the next topic*

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**12 Modularisation**

- Modularisation is a key issue in the Bologna process.
- Modules may be considered as the building blocks that are used to make a degree.
- However we will see in the following that there are different ideas on what a module exactly is.

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**13** Example: BSc (hons) Computer Science, Luton

**Semester 1**

**Semester 2**

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Modules for BSc			
	Level 1 (8 modules)	Level 2 (8 modules incl Scheme)	Level 3 (8 modules)
<b>SEMESTER 1</b>			
<b>Core</b>	Introduction to Programming - Java (CIS91-1) Systems Architecture (CIS81-2) Systems Modelling, Tools and Techniques (CIS92-1) CIS Scheme Module (CIS99-1) CIS PPAD (CIS21-1)	Object Oriented Program Development (CIS41-2) Systems Architecture (CIS81-2) Networking (CIS06-2)	Project (CIS09-3) Distributed Software Technologies (CIS69-3) IT Project Management (CIS12-3)
<b>Options</b>		Database Developments (CIS73-2) Concepts of AI (CIS51-2)	Decision Support Systems (CIS13-3) Managing Networks (CIS18-3) E-Commerce Tools & Techniques (CIS74-3)
<b>SEMESTER 2</b>			
<b>Core</b>	Introduction to Programming - Java (CIS91-1) Systems Architecture (CIS81-2) Systems Modelling, Tools and Techniques (CIS92-1) Data Communications (CIS03-1)	PDP (CISPP-2) Operating Systems (CIS57-2) Comparative Languages (CIS05-2)	Project (CIS09-3) Object Oriented Software Development (CIS50-3)
<b>Options</b>	Databases (CIS70-1)	Internet Programming (CIS63-3) Search & Control in AI (CIS58-2)	Systems Administration (CIS24-3) Web Database Systems (CIS10-3)

**14** Luton

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Modules for BSc Honours award in Computer Science				
	Level 1	Level 2	Level 3	Level 3
<b>SEMESTER 1</b>				
<b>Core</b>	Introduction to Programming - Java	Object Oriented Program Development (CIS41-2)	Architecture (CIS06-2)	Distributed Software Technologies (CIS69-3) IT Project Management (CIS12-3)
<b>Options</b>		Developments of AI (CIS51-2)	Decision Support Systems (CIS13-3) Managing Networks (CIS18-3) E-Commerce Tools & Techniques (CIS74-3)	
<b>SEMESTER 2</b>				
<b>Core</b>	Introduction to Programming - Java (CIS91-1) Systems Architecture (CIS81-2) Systems Modelling, Tools and Techniques (CIS92-1)	PDP (CISPP-2) Operating Systems (CIS57-2) Comparative Languages (CIS05-2)	Project (CIS09-3) Object Oriented Software Development (CIS50-3)	
<b>Options</b>	Databases (CIS70-1)	Internet Programming (CIS63-3) Search & Control in AI (CIS58-2)	Systems Administration (CIS24-3) Web Database Systems (CIS10-3)	

- 8 modules in every level.
- "long slim" modules in level 1 (modules that are running the full year carrying 30 credits (=15 ECTS))
- any other module carries 15 credits (=7.5 ECTS) per semester, except project module (15 ECTS in level 2, semester 2)
- Optional modules in level 2 and 3

**Semester 2**

- On BSc level:
- 2 credits = 1 ECTS
- 360 credits = 1 BSc (hons) degree

**15** Example: BSc Kommunikationsinformatik at HTW Saarland

3 Module des Bachelor-Studiums

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Studienplan des Grundstudiums										
1. Semester	Mathematik 1	Physikalisch-technische Grundr. d. IT 1	Programmierung 1	Informatik 5/2	BWL	English				
2. Semester	Mathematik 2	Physikalisch-technische Grundr. d. IT 2	Programmierung 2	Informatik 6/1	BWL	English				
3. Semester	Mathematik 3	Nachrichtentechnik	Digitaltechnik	Rechenetze	Softwaretech. 1	Datenbanken				
4. Semester	Microcont. syst.	Komm. technol. syst.	Systemman. u. Sicherheit	Softwaretech. 2	Vert. Systeme 1	Betriebssysteme				
5. Semester	Digit. Signal.	Komm. technol. syst.	Protokolle	Internet Techn.	Vert. Systeme 2	Gesch. u. Phas. 1				
6. Semester	Praktikum Kommunikationsinformatik	Wahlpflichtfach	Bachelor Abschlussarbeit							

**16** Example: BSc Kommunikationsinformatik at HTW Saarland

3 Module des Bachelor-Studiums

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Studienplan des Grundstudiums										
1. Semester	Mathematik 1	Physikalisch-technische Grundr. d. IT 1	Programmierung 1	Informatik 5/2	BWL	English				
2. Semester	Mathematik 2	Physikalisch-technische Grundr. d. IT 2	Programmierung 2	Informatik 6/1	BWL	English				
3. Semester	Mathematik 3	Nachrichtentechnik	Digitaltechnik	Rechenetze	Softwaretech. 1	Datenbanken				
4. Semester	Microcont. syst.	Komm. technol. syst.	Systemman. u. Sicherheit	Softwaretech. 2	Vert. Systeme 1	Betriebssysteme				
5. Semester	Digit. Signal.	Komm. technol. syst.	Protokolle	Internet Techn.	Vert. Systeme 2	Gesch. u. Phas. 1				
6. Semester	Praktikum Kommunikationsinformatik	Wahlpflichtfach	Bachelor Abschlussarbeit							

- Number of modules is different on every level.
- ECTS (=LP) per module varies (correlates with teaching hours / week)
  - 6 hours / week = 6-8 LP, 4 hours / week = 4-5 LP
  - final project: 15 LP
- Options in 6. semester only
- Project (final thesis?) in 6. semester only
- "Praxisphase" in 4-5. semester

cf. Luton: 4 hours / week = 7.5 LP

**17** Example: BSc Informatik at the Universität des Saarlandes.

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1	Programmierung 1 (9)	Perspektiven (4)	Mathematik 1 (9)	Nebenfach(12)	34
2	Programmierung 2 (9)	Systemarchitektur (9)	Mathematik 2 (9)	Sprachkurs (4)	31
3	SW-Praktikum (14)*	Theoret. Informatik (9)	Mathematik 3 (9)		32
4	Informationssysteme (9)	Proseminar (5)	Stammvorlesung (9)	Nebenfach (6)	29
5	Seminar (8)	Stammvorlesung (9)	Vertiefungsvorlesung (6)	Tutor/Spezial (4)	27
6	Abschlussarbeit (12)	Bachelor Seminar (12)	Vertiefungsvorlesung (6)		27
	Summe Leistungspunkte				180

**18** Example BSc Informatik at the Universität des Saarlandes.

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1	Programmierung 1 (9)	Perspektiven (4)	Mathematik 1 (9)	Nebenfach(12)	34
2	Programmierung 2 (9)	Systemarchitektur (9)	Mathematik 2 (9)	Sprachkurs (4)	31
3	SW-Praktikum (14)*	Theoret. Informatik (9)	Mathematik 3 (9)		32
4	Informationssysteme (9)	Proseminar (5)	Stammvorlesung (9)	Nebenfach (6)	29
5	Seminar (8)	Stammvorlesung (9)	Vertiefungsvorlesung (6)	Tutor/Spezial (4)	27
6	Abschlussarbeit (12)	Bachelor Seminar (12)	Vertiefungsvorlesung (6)		27
	Summe Leistungspunkte				180

ECTS Foreign Language

3 Seminars

Core

Advanced topics

Minors

19 Example BSc Informatik at the Universität des Saarlandes.

1	Programmierung 1 (9)				Nebenfach(12)	34
2	Prüfung (9)				Sprachkurs (4)	31
3	SV					32
4	Inf (9)				Nebenfach (6)	29
5	Seminar (8)	Stammvorlesung (9)	Vertiefungsvorlesung (6)	Tutor/Spezial (4)		27
6	Abschlussarbeit (12)	Bachelor Seminar (12)	Vertiefungsvorlesung (6)			27
	Summe Leistungspunkte					180

**Semester No** (vertical label on the left)

**ECTS** (red arrows pointing to course credits)

**Foreign Language** (green arrow pointing to Sprachkurs)

**Minors** (blue arrow pointing to Nebenfach)

**Core** (purple arrow pointing to Stammvorlesung)

**Advanced topics** (red arrow pointing to Vertiefungsvorlesung)

**Very generic description.**  
**Allows individual choices.**  
**Special program for skilled students may lead to a BSc degree in 5 semesters.**

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20 Summary: Modularization

- Although there exists some kind of a "standard" (e.g. number of ECTS to get degree), the implementation varies heavily in detail.
- For instance, Programming in first year:
  - Luton: 15 ECTS
  - HTW Saarbrücken 16 ECTS
  - Universität des Saarlandes: 18 ECTS
- Various methods of delivery.
  - E.g. Learning a foreign language gives ECTS in German BSc programmes.

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21 Overview



- Introduction
- BSc degrees
- Modularization
- Module descriptions** (highlighted with a red box and arrow)
- MSc / Master
- 10 steps towards an international degree.

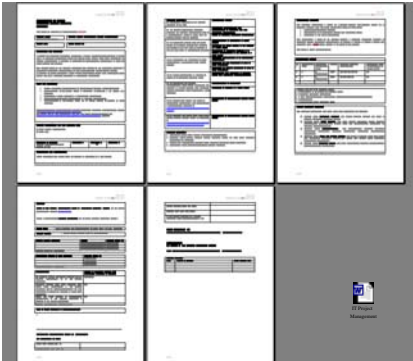
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22 What is a module?

- Examples of module descriptions
  - Luton
  - HTW Saarland
  - Universität des Saarlandes

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23 Luton, ModINF Professional Project Management (MSc)



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**Lehrveranstaltung Projektmanagement**

Modul: Projektmanagement  
 ID: K840  
 Dozent: H. Dipl.-Ing. Michael Sauer  
 Kontakt: Kontaktseite  
 Semester: 8  
 Lehrform: Vorlesung, Planspiele  
 Sprache: Deutsch  
 Nachweis: Projekt, mündliche Prüfung  
 ECTS: 2  
 SWS: 2  
 Grundlagen: Bachelorabschluss KI oder gleichwertig  
 Voraussetzung für Modul(e): -  
 Studienziel: Die Vorlesung vermittelt die besonderen Herausforderungen bei der Planung, Steuerung und dem Controlling von Projekten. Wesentlicher Gesichtspunkt ist die Erläuterung der bewährten Methoden und Instrumente des Projektmanagements insbesondere bei Softwareprojekten. Die Studierenden werden in die Lage versetzt, Projekte eigenständig abzuwickeln und Projektleitungsfunktion zu übernehmen.

Inhalt:  
 1. Zunehmende Bedeutung von Projekten in der Wirtschaft (im Gegensatz zu Routineabläufen)  
 2. Projektdefinition  
 3. Ablauf von Projekten - Projektphasen  
 4. Planung, Steuerung und Controlling von Projekten  
 5. Qualitätssicherung im Projektablauf  
 6. Multiprojektmanagement  
 7. Instrumente des Projektmanagements  
 8. Besonderheiten von Softwareprojekten

Material: Keine  
 Literatur: BURGHARDT M., Projektmanagement, Publics MCD Verlag, 2000  
 WESTERMANN R.: Projektmanagement mit System, Gabler Verlag 2001  
 HRZEL M., Multiprojektmanagement, FAZ-Verlag 2002

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25 Artificial Intelligence at the Universität des Saarlandes

<b>Artificial Intelligence</b>	
Leistungspunkte: 9	
DozentIn	
Siekmann, Jörg ( Prof. Dr. (Ph.D.) grad. Ing. (Informatik))	
Aubexier, Serge (Dr.)	
Benzmüller, Christoph (Dr.)	
Fiedler, Armin (Dr.-Ing. Dipl.-Inform.)	
Termine	
Montag, 14:00-16:00, Raum: HS 002, Geb.: 45	
Mittwoch, 14:00-16:00, Raum: HS 002, Geb.: 45	
Übung	
Termin: 2-stündig nach Vereinbarung	
Sprache: English	
Webseite:	
<a href="http://www.ags.uni-sb.de/~omega/teach/KI05/index.php">http://www.ags.uni-sb.de/~omega/teach/KI05/index.php</a>	

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26 Summary: Modules Documentation

- Very formal documentation in Luton.
- Overview and informal character in the Saarland (Germany).
- No standard in sight – necessary?
- How can we compare (e.g. for international programmes) the contents of modules when there is no standardized content description?

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27 Overview

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28 MSc examples: Luton, MSc Computer Science

- Blocks allow both February and September entry.

Block	Ma		Credits
Block A	1	Online Database Applications	15
	2	Internet Programming	15
	3	Intelligent Agents	15
	4	Multimedia Applications	15
			60
Block B	1	Network Systems	15
	2	Distributed and Parallel Computing	15
	3	Web Server Architecture	15
	4	Internet Usability	15
			60
Block C	1	Dissertation	60
			180

180 credits = 1 MSc, hence 3 credits = 2 ECTS on MSc level?

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29 Example: Master at the Universität des Saarlandes

- Very generic, lots of choices.

	Stamm/Vertiefung (9)	Stamm/Vertiefung (9)	Seminar (8)	Tutor/Sprache(4)	30
7	Core/Advanced	Stamm/Vertiefung (9)	Seminar (8)	Tutor/Sprache(4)	30
8	Stamm/Vertiefung (9)	Stamm/Vertiefung (9)	Vertiefung (6)	Vertiefung (6)	30
9	Master-Seminar (12)	Vertiefung (6) Advanced level	Seminar (8)	Spezial (4)	30
10	Abschlussarbeit (30)	Dissertation			30
Summe Leistungspunkte					120

- 120 ECTS = 1 Master
- Can also be done in 3 semesters

From: [http://rweb.cs.uni-sb.de/02\\_Neuhil](http://rweb.cs.uni-sb.de/02_Neuhil)  
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30 2 Studienplan des Master-Studiums HTW Saarbrücken, Master

Module	Semester								Gesamt			
	1	2	3	4	1	2	3	4	SWS	LP		
<b>Grundlagen Basics</b>									4	6		
Höhere Mathematik 1 und 2	2	3	2	3								
<b>Telekommunikation Telecommunication</b>									4	5		
Protokolle in öffentlichen und privaten Netzen	4	5		4	5							
Netzwerkarchitekturen										4	5	
Formale Methoden der Telekommunikation	4	5									4	5
<b>Informatik Computer Science</b>									4	5		
Theoretische Informatik	4	5									4	5
Software-Entwicklung für Kommunikationsnetze				4	6						4	6
Architekturen verteilter Anwendungen						4	5				4	5
Sicherheit und Kryptographie	4	5									4	5
<b>Projekt- und Führungskompetenzen Project Management</b>									4	4		
IT/TK-Recht für Führungskräfte				2	2						4	4
Personal- und Unternehmensführung				2	2						2	2
Projektmanagement				2	2						2	2
Business Cases der Telekommunikation				2	2						2	2
<b>Summe Pflichtfächer</b>	18	23	18	22	4	5	0	0	40	50		
<b>Wahlpflichtmodule Options</b>									16	20		
Wahlpflichtmodule (*)	6	7	6	8	4	5					16	20
<b>Praxisphasen/Master-Abschlussarbeit Practical Experience/Project</b>									20	20		
Projektstudium oder Industriepraktikum											20	20
Master-Abschlussarbeit											30	30
<b>Summe SWS / Leistungspunkte</b>	24	30	24	30	8	30	0	0	30	56	120	

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### 31 Summary MSc degrees

- Duration of study varies
  - Luton: 16 months
  - HTW Saarland: 24 months
  - Universität des Saarlandes: 18-24 months
- ECTS / module
  - Luton 10 ECTS / module
  - HTW 2-6 ECTS / module
  - Uni Saarland: 4-12 ECTS / module
- ECTS for project:
  - Luton: 40 ECTS
  - HTW/Uni Saar: 30 ECTS

- More inconsistency than on BSc level.
- MSc = Master?

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### 32 Overview



And finally

- Introduction
- BSc degrees
- Modularization
- Module descriptions
- MSc / Master
- 10 steps towards an international degree.

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### 33 Joint international Programms (two universities: Germany and UK) is this possible/feasible?

- The good news is:
  - Modularisation helps!
  - Should be possible at least in principle.
- But, problems in detail:
  - Different ways of accreditation.
  - Different view of ECTS value per module.
  - Different view on contents and documentation.

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### 34 10 Steps towards an international BSc Degree 1. Initiation of the process

- Development of suitable team structures between partner universities
- Identify appropriate roles
- Means of Communication
- Subgroups with well defined scope and responsibilities (e.g. role of Mathematics in Computer Science curriculum)

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### 35 10 Steps towards an international BSc Degree 2. Networking with external parties

- For example, quality assurance and other departments of HE, quasi-governmental organisations (e.g. HRK), employer panels.
- Problems may arise from contradictory demands from these external stakeholders, e.g. Employers vs. Academics.

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### 36 10 Steps towards an international BSc Degree 3. Identification of the framework and constraints

- The result of the previous process will lead to a well defined framework.
- Then:
  - Identify high level deadlines (e.g. dictated by meeting dates of governmental or university bodies).
  - Can be problematic as national processes are highly different.

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*10 Steps towards an international BSc Degree*  
4. Identifying the professional profile of the program

- Starting point will be the existing (local) programs of study.
- Mix of academically-focused and employment-oriented modules
- Possible conflicting ideas of national organizations, e.g. BCS (British Computer Society) and GI (Gesellschaft für Informatik)

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*10 Steps towards an international BSc Degree*  
5. Elaboration of the Curriculum  
5.1 Method of Delivery

- What are the requirements to make a study "international"? Possible models:
  - Require change of place of study, e.g. 1<sup>st</sup> year UK, 2<sup>nd</sup> & 3<sup>rd</sup> year Germany.
  - Require change of place of study for one semester only (as in ERASMUS/Sokrates).
  - Modules are offered remotely.
  - Remote supervision of final thesis.

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*10 Steps towards an international BSc Degree*  
5. Elaboration of the Curriculum  
5.2 Problems and Solutions on module level

- Same module carries a different number of ECTS at different institutions.
  - *Solution: Identify reasons and correct.*
- Modules with the same name have different contents
  - *Solution: Revalidation or renaming.*
- Modules have a different way of assessment
  - *Solution: Clarify if this is a problem in view of learning targets, possible change of assessment strategy.*
- Modules have differing vocational expressions or contexts (e.g. Java/C++/C# delivery of OO module).
  - *Solution: Identify if this is a problem in view of learning targets, possible change of delivery.*

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*10 Steps towards an international BSc Degree*  
6. Integration of the proposed program within the institutional context(s).

- Is change of program allowed during the course of studies?
- Part-time options, February entry?
- Synergies (e.g. use of existing modules)?
- Joint Programs (Major/Minor)?
- Alternative degrees or certificate for students not finishing the proposed program of study?

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*10 Steps towards an international BSc Degree*  
7. Appropriate Documentation and Examination Regulations

- For instance in Germany there are well defined documents *Studienordnung* and *Prüfungsordnung*.
- The documentation in UK is in form of a *Programme Handbook* and QA documents.

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*10 Steps towards an international BSc Degree*  
Steps 8-10

- 8. Accreditation and validation.
- 9. Advertising the new course.
- 10. Training, Monitoring and Evaluation

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### 43 Conclusions

- Is international collaboration (e.g. joint degrees) possible?
  - There are still a number of obstacles:
    - ECTS/module, frameworks and stakeholders, context in which universities work, etc.
  - However based on the Bologna process these problems can be identified and eventually be solved.
- The (academic/vocational) quality of a (BSc/MSc) degree can only be evaluated in the context of the university where this degree is obtained.



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### 44 Exercise

- Student A comes from Luton with 120 ECTS and wants to study their final year (BSc) in Montpellier II.
- Student B comes from the Saarland with 120 ECTS and wants to study their final year (BSc) in Montpellier II.
- Questions:
  - What do you tell student A?
  - What do you tell student B?



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Marc Conrad - University of Luton

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