

**Study and examination achievements required from students of foreign partner universities (incoming) in the Double Degree Program "Communication and Embedded Systems" (Master's program in Electrical and Information Technology) at Anhalt University of Applied Sciences**

The study plan specifies the volume and allocation of modules to the individual academic semesters of the standard period of study, as well as their crediting. Components of the Master's examination include: compulsory and elective module examinations, the internship, the Master's thesis, and the Master's colloquium. Examination prerequisites are the preliminary services according to this document.

Module name german/english	Weekly semester hours					Examination prerequisite	Examination type	Duration of the examination	Credits
	15 Weeks			15 Weeks					
	V	Ü	P	Ü	P				
<b>1st and 2nd Academic Semesters</b>									
This semesters are completed by the students at the respective partner university									
<b>Total 2nd Academic Semester</b>									<b>30</b>

<b>3rd Academic Semester</b>									
<b>Pflichtmodule/Compulsory modules</b>									
Echtzeitsysteme/ Real-Time Systems		3	1			1 PVL	K	120 min	5
Hardware / Software Co-Design/ Hardware / Software Co-Design		2	2			1 LNW	M	20 min	5
Kanalcodierung/ Channel Coding		2	2			1 LNW	M	20 min	5
Statistische Methoden der Nachrichtentechnik/ Statistical Methods in Communications		2	2			1 LNW	M	20 min	5
Mobile Kommunikation/ Mobile Communications		3	1			1 LNW	K	120 min	5

<b>Wahlpflichtmodule/Compulsory elective modules (1 must be chosen)</b>									
Systemprogrammierung/ System Programming		3	1			1 PVL	K	120 min	5
Mikrosystemtechnik/ Microsystems Technology	2		1			1LNW	K	120 min	5
Projektarbeit "Advanced Networking Administration"/ Individual Project Work „Advanced Networking Administration“			4			-	B	-	5
<b>Total 3rd Academic Semester</b>									<b>30</b>

<b>4th Academic Semester</b>									
<b>Pflichtmodule/Compulsory modules</b>									
Masterarbeit/Master Thesis							H		25
Kolloquium/Colloquium							P/C	20 min	5
The Master's thesis and the colloquium are generally completed under the joint supervision of a lecturer from Anhalt University of Applied Sciences and the respective partner university.									
<b>Total 4th Academic Semester</b>									<b>30</b>

<b>Total degree programme</b>									<b>90</b>
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- Module completion:
- K Written Exam
  - M Oral Examination
  - PRO Project
  - H Homework Assignment
  - E/B Documentation
  - R Presentation
  - Ex Experimental Work
  - P Presentation
  - C Colloquium
  - oP Completion of the module without examination/grade
- Examination prerequisite:
- LNW Proof of Performance
  - TN 80 Proof of Participation 80 %

**Acceptation of examination and study achievements of students of the OPNU enrolled in the program:**

*Computer Systems and Networks*

<b>Compulsory modules</b>	<b>Credits</b>
Design of computer systems and networks	6
Analysis of computer systems	3
Diagnostics of computer systems	3
Administration of operating systems	4,5
<b>Total</b>	<b>16,5</b>
<b>Compulsory elective modules, of which 13,5 CP must be completed</b>	
Mobile communication protocols	4,5
Network information technologies	4,5
Broadband radio communication	4,5
Satellite communication systems	4,5
IoT security and privacy	4,5
Networking software	4,5
Analysis of computer systems	3
Designing and diagnosing systems for critical applications	4,5
Optimal and adjustable control systems	4,5
Protection of information in mobile communication	4,5
Applied analysis of software systems	4,5
Methodology of development of intellectual IP	4,5
Cloud architecture of building information systems	4,5
Research and design of computer systems and networks	4,5
Computational intelligence	6
Scientific research and inventive activity in IT	6
Robotic systems and complexes	6
Service-oriented architecture of distributed systems	6
<b>Total amount of credits</b>	<b>30</b>

**Recommended study plan for Master DD Program Students of the OPNU**

<b>1. Semester</b> (winter semester)	<b>2. Semester</b> (summer semester)	<b>3. Semester</b> (winter semester)	<b>4. Semester</b> (summer semester)
Study at OPNU 01.09. – 31.01.	Study at OPNU 01.02. – 29.06./30.09.	Study at HSA 01.10. – 15.02.	Study at OPNU or at HSA 16.02 – 29.06/30.09 work on the Master's thesis, colloquium

**Conversion rule of the module grades acquired at the OPNU and at HSA**

<b>Grades OPNU</b>	<b>Grades HSA</b>
0-59	5,0
60-61	4,0
62-64	3,7
65-67	3,3
68-70	3,0
71-73	2,7
74-79	2,3
80-84	2,0
85-89	1,7
90-95	1,3
96-100	1,0