



**Appendix to the**

**Double Degree Agreement**

between

**Chiang Mai University CMU**  
**239 Huay Kaew Road, Muang District, Chiang Mai, Thailand, 50200**

and

**Otto-von-Guericke-Universität Magdeburg OVGU**  
**Universitätsplatz 2, 39106 Magdeburg, Deutschland**



## A1 – Requirements of the Double Degree

Acquiring the double degree from OVGU (“**Master of Science**” of the master program “Wirtschaftsingenieur Logistik”) and CMU (“**Master of Engineering**” of the master program “Logistics Engineering and Supply Chain Management”) requires that:

1. Students from CMU or OVGU, respectively, have successfully completed the exams prescribed in A2 and A3. Modules are governed by the study and exam regulations of the university organizing the respective module;
2. students have studied at least one basic semester at the host university;
3. the English-language master’s thesis has been supervised and reviewed by one supervisor each from the host and home universities and has been successfully created and finished.

## A2 – Regular study plan for students from CMU

### Requirements for participation in the TGDDP:

To be admitted to the TGDDP students must fulfill the following requirements:

- Successful completion of the bachelor program “Industrial Engineering” at CMU (proof via bachelor diploma and transcript of records)
- Proof of the necessary knowledge of the English language by one of the following certificates:
  - TOEFL iBT with a minimum score of 80 Points,
  - IELTS with a minimum score of 6.0,
  - Cambridge Certificate of Proficiency in English / CPE with a minimum score of “C”,
  - Cambridge Certificate of Advanced English / CAE with a minimum score of “B”,
  - Chiang Mai University Electronic Test of English for Graduate Studies / CMU eTEGs with a minimum score of 80,
  - or by an equivalent certification with an equivalent score.



#### Plan of studies:

Semester	SS	WS	SS	WS
Location	CMU	OVGU	CMU/OVGU	CMU/OVGU

Students take four modules following the regular study plan in the **first semester (summer semester)** of the master program „Logistics Engineering and Supply Chain Management“ at CMU, following the appropriate exam and study regulations. In addition, they must take one further module and thus a total of five modules comprising 15 CP<sup>1</sup> (= 30 ECTS CP OVGU) at CMU (cf. regular study plan, Fig. 1).

In the **second semester (winter semester)** students from CMU follow the regular study plan of the master program “Wirtschaftsingenieur Logistik“ at OVGU according to the appropriate exam and study regulations. In total, students must attend modules with a total of at least 30 ECTS CP (=15 CP); (cf. regular study plan, Fig. 1).

During the third and fourth semesters, students must compose and publish the international publication required for the Thai degree and their master thesis. It is the student's choice whether to produce the thesis at OVGU or at CMU.

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<sup>1</sup> The term CP refers to the Credit Points of CMU. The term ECTS (European Credit Transfer and Accumulation System) CP refers to the ECTS Credit Points of OVGU. 1 CP is equivalent to 2 ECTS CP. The workload required to be awarded 1 CP is twice as high as the workload required to be awarded 1 ECTS CP.



Figure 1: Regular study plan for students of CMU

location:

	Modules	1. Semester		2. Semester		3. Semester		4. Semester	
		ECTS / CP		ECTS / CP		ECTS / CP		ECTS / CP	
1.	Core Modules CMU								
1.1	Research Methodology	x	6 / 3						
1.2	Logistics System Modeling	x	6 / 3						
2.	Elective Modules CMU								
2.1	Inventory Theory	x	6 / 3						
2.2	Decision Making for Logistics and Supply	x	6 / 3						
2.3	Trading and International Logistics	x	6 / 3						
3.	Core Modules OVGU								
3.1	Supply Chain Management and Network Spec. Module A			x	5 / 2,5				
3.2	Supply Chain Management and Network Spec. Module B			x	5 / 2,5				
3.3	Team or individual project			x	6 / 3				
4.	Elective Modules OVGU								
4.1	Compulsory Elective Economic Sciences			x	6 / 3				
4.2	Compulsory Elective Technology and Management			x	5 / 2,5				
4.3	Compulsory Elective Technology and Management			x	5 / 2,5				
5.	Other Modules								
5.1	Elective language course "German as a second language"			x	0 / 0				
5.2	International Publication					x	0 / 0		
6.	Creation of Master Thesis								
6.1	Master Thesis + Colloquium							x	30 / 12
	Total ECTS / CP		30 / 15		32 / 16		0		30 / 12

OVGU
CMU
OVGU or CMU



## Explanation of the regular study plan:

### Semester 1:

The modules named in the regular study plan above are taken at CMU. They include 2 Core Modules:

- Research Methodology (3 CP / 6 ECTS CP),
- Logistics System Modeling (3 CP / 6 ECTS CP),

as well as 3 Elective Modules:

- Inventory Theory (3 CP / 6 ECTS CP),
- Decision Making for Logistics and Supply (3 CP / 6 ECTS CP),
- Trading and International Logistics (3CP / 6 ECTS CP),

*Total: 15 CP / 30 ECTS CP.*

### Semester 2:

The modules named in the regular study plan above are taken at OVGU. They include 3 Core Modules:

- Supply Chain Management and Network Specialization Module A (5 ECTS CP / 2.5 CP),
- Supply Chain Management and Network Specialization Module B (5 ECTS CP / 2.5 CP),
- Team or individual project in logistics (6 ECTS CP / 3 CP),

as well as 3 Elective Modules and 1 Optional Module:

- 1 Compulsory Elective Economic Sciences (6 ECTS CP / 3 CP),
- 2 Compulsory Electives in Technology and Management (each 5 ECTS CP / each 2.5 CP),
- Optional Elective: language course “German as a second language” (0 ECTS CP / 0 CP),

*Total: 32 ECTS CP / 16 CP.*



### **Semesters 3 and 4:**

In the 3<sup>rd</sup> and 4<sup>th</sup> Semester the students must compose and publish either a national or international publication written in the English language required for the Thai degree and their master thesis (also written in the English language). The semester and the production of the master thesis can take place either at CMU or at OVGU.



### A3 – Regular study plan for students from OVGU

#### Requirements for participation in the TGDDP:

To be admitted to the TGDDP students must fulfill the following requirements:

- Successful completion of the bachelor program “Wirtschaftsingenieur Logistik” at OVGU (proof via bachelor diploma and transcript of records)
- Proof of the necessary knowledge of the English language by one of the following certificates:
  - TOEFL iBT with a minimum score of 80 Points,
  - IELTS with a minimum score of 6.0,
  - Cambridge Certificate of Proficiency in English / CPE with a minimum score of “C”,
  - Cambridge Certificate of Advanced English / CAE with a minimum score of “B”,
  - Chiang Mai University Electronic Test of English for Graduate Studies / CMU eTEGs with a minimum score of 80,
  - or by an equivalent certification with an equivalent score.

#### Plan of studies:

Semester	SS	WS	SS
Location	OVGU	CMU	OVGU/CMU

In the **first semester (summer semester)** students follow the regular study plan for the master program “Wirtschaftsingenieur Logistik” at OVGU, according to the appropriate exam and study regulations. Students must take modules worth a total of at least 30 ECTS CP (=15 CP).

In the **second semester (winter semester)**, OVGU students take 4 modules following the regular study plan for the master program “Logistics Engineering



and Supply Chain Management” at CMU, following the appropriate exam and study regulations. In addition, students take another module (cf. regular studies plan, fig. 2), so that students gain a total of 15 CP (=30 ECTS CP OVGU) at CMU.

In the 3rd Semester the students must compose and publish either a national or international publication written in the English language required for the Thai degree and their master thesis. It is the student’s choice whether to produce the master thesis at OVGU or at CMU.





Figure 2: Regular study plan for students of OVGU

location:

	Modules	1. Semester		2. Semester		3. Semester	
		ECTS / CP		ECTS / CP		ECTS / CP	
1.	Core Modules OVGU						
1.1	Logistics Planning and VR Module A	x	5 / 2,5				
1.2	Logistics Planning and VR Module B	x	5 / 2,5				
1.3	Logistics Strategies and Methods	x	6 / 3				
1.4	Engineering Economics	x	6 / 3				
2.	Elective Modules OVGU						
2.1	Compulsory Elective Economic Sciences	x	6 / 3				
2.2	Compulsory Elective Technology and Management	x	5 / 2,5				
3.	Core Modules CMU						
3.1	Operations Management			x	6 / 3		
3.2	Information Technology for Logistics			x	6 / 3		
3.3	Supply Chain and Logistics Management			x	6 / 3		
4.	Elective Modules CMU						
4.1	Special Topic in Engineering Logistics			x	6 / 3		
4.2	Performance Measurement for Logistics and Supply Chain Management			x	6 / 3		
5.	Other Modules						
5.2	Elective language course "Thai as a second language"			x	0 / 0		
5.3	International Publication					x	0 / 0
6.	Creation of Master Thesis						
6.1	Master Thesis + Colloquium					x	30 / 12
	Total ECTS / CP	33 / 16,5		30 / 15		30 / 12	

OVGU
CMU
OVGU or CMU



## Explanation of the regular study plan:

### Semester 1:

The modules named in the regular study plan above are taken at OVGU. They include 4 Core Modules:

- Logistics Planning and VR Module A (5 ECTS CP / 2.5 CP),
- Logistics Planning and VR Module B (5 ECTS CP / 2.5 CP),
- Logistics Strategies and Methods (6 ECTS CP / 3CP),
- Engineering Economics (6 ECTS / 3 CP),

as well as 2 Elective Modules:

- Compulsory Elective Economic Sciences (6 ECTS CP / 3 CP)
- Compulsory Elective Technology and Management (5 ECTS CP / 2.5 CP),

*Total: 33 ECTS CP / 16.5 CP.*

### Semester 2:

The modules named in the regular study plan above are taken at CMU. They include 3 Core Modules:

- Operations Management (3 CP / 6 ECTS CP),
- Information Technology for Logistics (3 CP / 6 ECTS CP),
- Supply Chain and Logistics Management (3CP / 6 ECTS CP),

As well as 2 Elective Modules and 1 Optional Module:

- Performance Measurement for Logistics and Supply Chain Management (3 CP / 6 ECTS CP),
- Special Topic in Engineering Logistics (3 CP / 6 ECTS CP),
- Optional Elective: language course “Thai as a second language” (0 CP / 0 ECTS CP),

*Total: 15 CP / 30 ECTS CP.*



### **Semester 3:**

In the 3rd Semester the students must compose either a national or international publication written in the English language required for the Thai degree and their master thesis (also written in the English language). The semester and the production of the master thesis can take place either at CMU or at OVGU.

### **A4 – Selecting the exchange students**

In general, students to take part in the exchange are chosen by their home university. Upon consultation, it is possible to establish a procedure in which both universities take part. The requirements for participation in the TGDDP are enumerated in A2 and A3. If the number of applicants is greater than the capacity (10 students), the choice shall be made via a ranking based on previous performance (bachelor's certificate). If this does not lead to a final decision, additionally the written application and an interview can be drawn upon to reach a decision. The commission's decision should be based on the competences and soft skills relevant to the double degree program.

Applications to the TGDDP are possible until the 15<sup>th</sup> of May each calendar year. Notification of acceptance or rejection to the TGDDP should take place until 31 May of the same year, to allow for a successful enrolment at the guest university in due time.

Applications for enrolment at the guest university, either CMU or OVGU, should be submitted after acceptance to the TGDDP is confirmed.

Applications to CMU are possible until the 1<sup>st</sup> of July each calendar year. Notification of acceptance or rejection to CMU should take place until 15<sup>th</sup> of July of the same year, to allow for successful enrolment at the guest university in due time.



Applications to OVGU are possible until the 15<sup>th</sup> of July each calendar year. It is strongly recommended to apply for enrolment not later than the 15<sup>th</sup> of June, to allow for a successful enrolment at the guest university in due time.

## A5 – Conversion table

The conversion between OVGU and CMU grades is based on the following table of percentages. Therefore, grades should be transferred between the partners via percentage values.

OVGU	
Note	%
1 (very good)	95-100%
1,3 (very good)	90-94%
1,7 (good)	85-89%
2 (good)	80-84%
2,3 (good)	75-79%
2,7 (satisfactory)	70-74%
3 (satisfactory)	65-69%
3,3 (satisfactory)	60-64%
3,7 (sufficient)	55-59%
4 (sufficient)	50-54%
5 (insufficient = failed)	< 50%

CMU	
Note	%
A (very good)	81-100%
B+ (good)	76-80%
B (good)	71-75%
C+ (satisfactory)	66-70%
C (satisfactory)	61-65%
D+ (sufficient )	56-60%
D (sufficient )	50-55%
F (insufficient = failed )	< 50%



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