



## ***Curriculum of the Master degree programme***

**“Wood Technology and Management”**

**Code: 066 426**

**University of Natural Resources  
and Life Sciences, Vienna**

**Center for International Relations**

For legal purposes, only the version of the curriculum that has been published in the official journal (Mitteilungsblatt) is binding and valid - this English translation is for information purposes only.

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*Published and printed with support of ERASMUS–OM-funds*

*Issued in October, 2010*

<p style="text-align: center;"><b>Curriculum of the Master degree programme</b> <b>“Wood Technology and Management”</b> At the University of Natural Resources and Life Sciences, Vienna</p>
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*As at October 1<sup>st</sup>, 2010*

## **§ 1 Description of qualification**

### **General aim of the degree programme**

In accordance with the general BOKU model, the Master degree in Wood Technology and Management aims to produce scientifically-trained and internationally recognised managers for employment within the wood industry and wood research, as well as related business areas.

### **Field of activity**

Technical and business management as well as research and development along the “value added chain” for wood and related business areas. Management of research and development institutes in the areas of solid wood, wood and fibre materials and industrial production technology. Strategic and operative management of enterprises, business units and projects in wood and natural material technology, in areas such as logistics, market research, product development and company potential planning.

### **Requirements**

The ability to acquire and combine a scientific-engineering education with a socio-economic one, through clearly defined research-led training and independent learning. Additionally, gaining skills such as the development of the capacity for problem-solving, communication and co-operation skills (“Soft skills”) during the course of the degree programme.

### **Specific educational aim**

General basic and applied knowledge in the area of wood and fibre materials, as well as their technical utilisation and the management skills entailed within sustainable development. Internationalisation is provided throughout the degree programme and the modules offered (international guest lecturers, lectures in English, acceptance and recognition of completed, comparable foreign studies, etc.).

### **Employment opportunities**

Commercial and industrial wood industry as well as related businesses and relevant research, development, investigation, and education institutions.

## **§ 2 Format of the Master degree programme**

The duration of the Master degree in Wood Technology and Management is fixed at 4 semesters and is made up of 120 ECTS. Of the total ECTS, 81 ECTS (54 weekly semester hours, Semesterstunden, SST) are modules chosen from an approved list provided by the University, 2 ECTS (2 SST) represent a seminar for Master degree students (Master's Thesis Seminar) and 7 ECTS are free elective courses. (Master degree thesis = 30 ECTS).

### **§ 3 Admission to the Master Degree**

Graduates of the Bachelor degree in Wood and Fibre Technology from the University of Natural Resources and Life Sciences, Vienna, will be admitted to the Master degree programme.

Graduates of other Bachelor degrees who wish to take the Master degree in Wood Technology and Management must be able to demonstrate a fundamental, equivalent knowledge of the central subjects taught within the Bachelor degree in Wood and Fibre Technology. Specifically, this concerns the subjects taught as part of the Bachelor degree in Wood and Fibre Technology in the areas of scientific basics, the technical and subject-specific foundations, the social, economic and legal courses, and the vocational modules.

### **§ 4 Academic qualification**

In accordance with the classification of engineering degrees, graduates of the Master degree will be awarded the academic qualification "Graduate Engineer" ("Diplom-Ingenieur(in)"), shortened to "Dipl.-Ing." or "DI".

### **§ 5 Types of courses**

Courses within this degree are:

1. **Lectures (VO):** Courses in which portions of an academic discipline and the methods involved are didactically presented.
2. **Practical exercises (UE or PR):** Practical exercises are courses which have a factual connection to the relevant lecture and serve to teach specific practical abilities and skills.
3. **Proseminars (PS):** Courses which assist in the preparation of scientific work, where participants are expected to give an oral presentation and/or provide written work preferably in one of the main languages of the scientific literature.
4. **Seminars (SE):** Courses which assist in the preparation of scientific work, where participants are expected to give an oral presentation and/or provide written work preferably in one of the main languages of the scientific literature.
5. **Excursions (EX):** Courses which contribute to the illustration and consolidation of the course material.
6. **Combined courses:** all courses listed above from (1) to (5) can also be combined. For such courses, the regulations given should be used for the relevant sections.
7. **Interdisciplinary project studies (IP):** Courses which assist in the preparation of scientific work including data collection and discussion, where participants are expected to carry out data collection and analysis and provide an oral presentation and/or written work.
8. **Seminars for degree candidates (DS):** Courses dedicated to the scientific discussion and presentation of the work required for the thesis/dissertation.
9. For courses (which are inherently exam-based) where attendance is compulsory, the course lecturer should make it known, before the beginning of the course, when attendance is required. (Scope of compulsory attendance: UE, SE, PS, IP, DS = 100%, VU, VP, VS, VSX etc. = 30-70%).
10. All courses can also be held outdoors or at companies, as required.

## § 6 Compulsory courses<sup>1</sup>

### Used abbreviations:

SST = weekly semester hours

ECTS = European Credit Transfer System points

WS = Winter Semester

SS = Summer Semester

Following courses to an extent of 42 ECTS have to be completed successfully.

<i>Number</i>	<i>Type</i>	<i>Name</i>	<i>Semester</i>	<i>SST</i>	<i>ECTS</i>
<b>Cross-sectional Lectures and Methodological Basics</b>					
891.325	VU	Research Design	WS	2.0	3.0
891.303	SE	Wood Technology and Management, Introduction	WS	2.0	3.0
891.319	VO	Quality Assurance and Testing Methods	SS	2.0	3.0
<b>Wood and Material Science and Technology</b>					
891.309	UE	Wood Industry Laboratory	WS	2.0	3.0
891.306	VO	Composite and Compounds	WS	2.0	3.0
891.310	EX	Excursions	WS	1.0	1.5
892.320	VU	Wood physics: Material-Transportation	SS	2.0	3.0
892.321	VU	Solid State Mechanics	SS	2.0	3.0
892.322	VO	Technical Materials	SS	2.0	3.0
891.307	VU	Wood - Biotechnology	SS	2.0	3.0
891.304	VO	Wood Industry Processes: Solid Wood Primary and Secondary Processing	WS	3.0	4.5
891.305	VO	Wood Industry Processes: Wood- and Wood-Based Composites Materials	WS	2.0	3.0

<sup>1</sup> A more detailed description of all courses, including objective of the course, course contents, name of lecturer, prerequisites, recommended reading, teaching methods, assessment methods and language of instruction, is found in the BOKUonline: <https://online.boku.ac.at/>

<i>Number</i>	<i>Type</i>	<i>Name</i>	<i>Semester</i>	<i>SST</i>	<i>ECTS</i>
<b>Management</b>					
732.311	VU	Public Relations: Fundamental Rules and Conception	WS	2.0	3.0
915.327	VU	Project Management	SS	2.0	3.0
735.328	SE	Marketing Strategies	WS	1.0	1.5
735.327	VU	Market Research and Market Analysis	SS	2.0	3.0
734.323	VU	Business Management I	WS	2.0	3.0
734.324	PS	Simulation of Enterprise Processes	SS	2.0	3.0
735.305	VO	Entrepreneurship and Innovation (incl. Patent Licensing)	SS	3.0	4.5
733.311	VO	Business Planning	SS	2.0	3.0
734.328	SE	Management Principles in Forest Based Industries	SS	2.0	3.0
	SE	Master Thesis Seminar <sup>2</sup>	WS or SS	2.0	2.0

## § 7 Elective Modules<sup>3</sup>

### Used abbreviations:

SST = weekly semester hours

ECTS = European Credit Transfer System points

WS = Winter Semester

SS = Summer Semester

Two of the following four modules (each 6 weekly semester hours [9 ECTS]) have to be completed successfully.

<i>Number</i>	<i>Type</i>	<i>Name</i>	<i>Semester</i>	<i>SST</i>	<i>ECTS</i>
<b>Module Technology</b>					
891.313	VU	Coating and Surfaces	WS	2.0	3.0
891.312	VU	Adhesives and Gluing	SS	2.0	3.0
773.325	VU	Chemistry and Technology of Polymers	WS	2.0	3.0

<sup>2</sup> The Master Thesis Seminar is completed at the institute at which the thesis is supervised. Please contact your thesis supervisor for further information.

<sup>3</sup> A more detailed description of all courses, including objective of the course, course contents, name of lecturer, prerequisites, recommended reading, teaching methods, assessment methods and language of instruction, is found in BOKUonline: <https://online.boku.ac.at>

<i>Number</i>	<i>Type</i>	<i>Name</i>	<i>Semester</i>	<i>SST</i>	<i>ECTS</i>
<b>Module Wood and Fibre Materials Science</b>					
891.317	VO	Engineered Wood Products	WS	2.0	3.0
891.316	VU	Wood and Fibre Materials Performance	SS	2.0	3.0
891.314	VO	Wood and Fibre Quality	WS	2.0	3.0
<b>Module Production Engineering</b>					
891.320	VO	Modern Processing Systems	SS	2.0	3.0
891.311	VO	Wood Cutting, Milling, Moulding	WS	2.0	3.0
891.318	VO	Manufacturing Systems	WS	2.0	3.0
<b>Module Management/Logistics</b>					
734.329	VS	Logistic Systems	SS	4.0	6.0
734350	PS	Logistics in Forestry- and Timber Industry	SS	2.0	3.0
<b>Module Business Management and Controlling</b>					
734326	VU	Controlling in Forestry Industry	SS	4.0	6.0
734327	VU	Business Management II	SS	2.0	3.0

## **§ 8 Thesis for the Master degree**

- (1) The thesis for the Master degree constitutes an integral part of the Masters degree in Wood Technology and Management.
- (2) The subject of the Master degree thesis must be chosen from a discipline relevant to the Master degree in Wood Technology and Management.
- (3) The university lecturer who suggests the subject chosen for the Masters degree thesis is obliged to supervise that student.
- (4) The Master degree thesis should be submitted to the Dean of the University.
- (5) The Master degree thesis is assigned 30 ECTS credits.

## **§ 9 Graduation requirements**

The final examination for the Master degree is taken in two parts.

The first part of the final examination for the Master degree comprises the modules detailed in § 6 and § 7 above and is completed with the positive assessment of these courses. The second part of the final examination for the Master degree is an oral examination held before a committee and includes: the examination of the subject chosen for the Master degree thesis and the examination of one further

subject which is considered to be the specialisation of the degree. This second subject is chosen by the Dean of the University, in discussion with the student.

Registration for the second part of the final examination requires the following:

- the successful completion of individual examinations, according to §6
- the successful completion of the modules chosen from a list provided by the University, according to §7
- the successful completion of 7 credits (SST) of free elective courses
- positive assessment of the Master degree thesis

## **§ 10 Transitional regulations**

(1) Regular students, who are permitted to follow a certain degree programme according to the basics of the UniStG from 1.10.1999, may continue to follow this degree programme.

From the effective date of the new degree programmes for Bachelor and Master degrees, these students are permitted to complete their degree within the legal duration period, with the addition of one extra semester, according to §80 b (2) UniStG. If the degree is not completed within this period, then the student will be required to follow the Bachelor degree programme for the remainder of his/her studies (admittance to the Master degree is only possible upon successful graduation from the Bachelor degree, see also §3).

(2) For regular students who began their degree, on the basis of the UniStG, before the effective date of the new degree programme and who are studying according to the degree regulations and §80 paragraph 2-4 UniStG, there are no changes with respect to the transitional regulations.

(3) For students who are continuing their degree according to the previous degree programme, there is a regulation (equivalence list) from the Degree Commission (Studienkommission) which lists all previous modules that are equivalent to the modules of the new Master degree programme. For students who decide to follow the Master degree programme, successfully completed exams for the old degree programme will be accepted according to the equivalence list of the new Master degree programme.

(4) Students who are studying their degree according to the current degree programme (06U) can complete the course "Chemistry and technology of polymers" as a compulsory course and "Quality Assurance and Testing Methods" as elective course, until the end of the winter semester 2009/2010.