



## **Double Degree Programme between Wuhan University of Technology (WUT) in P.R. of China, and Gjøvik University College (GUC) in Norway.**

### **-Dual Master Programme in Media Processing and Security**

#### **Introduction:**

Building upon a successful history of partnership between GUC and WUT, the present agreement aims to strengthen the working relationship between the two institutions. The agreement revolves around the Double Degree program between WUT's Master of Engineering and GUC's Master programmes in Information Security and Media Technology. The agreement also includes the possibility of students exchange, faculty exchange, common research, study trips, and other forms of co-operation.

#### **1. Objectives:**

- 1.1 GUC and Wuhan University of Technology (WUT) have agreed to enter an agreement encompassing a Double Degree Program involving GUC's Master programmes in Information Security and Media Technology and WUT's Master of Engineering. Faculty from both partner universities will be able to supervise students' theses, jointly participate in theses juries, and form any other kind of joint co-operation they deem worthwhile.
- 1.2 WUT students will come to GUC to carry out their second year of study, and there choose one of two possible tracks: Master of Science in Information Security OR Master of Science in Media Technology.
- 1.3 Technology, and WUT's Master of Engineering require

#### **2. Points of agreement**

- 2.1 This agreement implies the possibility of exchange of professors to teach and to do research, both ways between WUT and GUC.
- 2.2 Faculty from both partner universities will be able to supervise students' theses, jointly participate in theses juries, and form any other kind of joint co-operation they deem worthwhile.
- 2.3 Students will be chosen on the basis of their merit and motivation to second year of studies at GUC. WUT will make a preliminary choice of students and GUC will analyze the student candidacies to make the final selection. The students should

meet a total average score of 80 GPA (Grade Point Average) on the scale of 100, to be able to continue their studies at GUC.

- 2.4 This agreement is for a maximum amount of 20 students in total each year to be admitted to GUC, and then eligible for the double degree.
- 2.5 The decision to accept a higher number of students (above 20) will be subject to discretionary approval by the two partner institutions.
- 2.6 Students participating in any of the programs offered will be subject to the academic regulations of the student body of the host institution (i.e: exams, terms of study, grading and all national regulations concerning the student body of the host institution).
- 2.8 A learning agreement (LA) including which courses will be awarded credits at GUC taken at WUT, and which courses awarded credits at WUT taken at GUC will be signed for each student personally, by student, home- and host institution.
- 2.7 The host institution will inform the students regarding suitable housing and make every effort to assist the student in arranging suitable temporary accommodation.
- 2.8 The host institution will assume no responsibility for the students' conduct or lack of compliance with the laws of the host country.

### **3. Double degree candidates from WUT to GUC**

- 3.1 Candidates to the Double Degree Program must:
  - 1) Achieve a minimum of 80 TOEFL (computer based) score or a total score of 6.0 or higher in the IELTS. All courses in the master programmes at GUC are in English.
  - 2) Possess a minimum of 80 GPA (Grade Point Average) on the scale of 100, where a score under 60 is fail.
  - 3) Be enrolled in the above mentioned master programme at WUT.
- 3.2 Double Degree Master students must enroll as full time students at GUC for a complete academic year (two full semesters: from August to June).
- 3.3 Double Degree Master students must do their first year at WUT enrolled in a Master program. Students go to GUC for their second year of study.
- 3.4 Double Degree Master students take examinations at GUC as required in the courses taken. The results of these evaluations will be valid in both institutions (double degree principle).
- 3.5 Only those Double Degree Master students who have successfully completed all of the requirements of both GUC Master's programmes and WUT's Master's programme will be awarded with the double degree.
- 3.6 After completion of their second year at GUC as well as their defense of their thesis, students will receive both GUC's Master of Science in Information Security OR Media Technology and WUT's Master of Engineering.
- 3.7 This Agreement equally includes the possibility for WUT and GUC faculty to teach in the partner institution.
- 3.8 Theses, a key part of the requirements for completion of the degree, will be co-supervised between GUC and WUT faculty.
- 3.9 Research projects can also be organized between the faculties of the two institutions.

## **4. The double degree agreement will adhere to the following procedures:**

- 4.1 GUC will provide WUT with evaluation results of the Double Degree students as soon as possible after the completion of each student's program.
- 4.2 WUT will be able to send one copy of the transcript to the host institution within one month of completion of the last academic term attended by the student.
- 4.3 GUC will confer its graduate degree to those students who have met the terms described above and will inform WUT so that it can then confer its own diploma.
- 4.4 Each participant must provide evidence of holding a valid health insurance valid in the host country and must include medical attention, air medical evacuation and repatriation of remains. The insurance has to be valid from their departure of their country until their return.

## **5. Financial costs**

- 5.1 Students will be personally responsible for:
  - § All travel expenses.
  - § Compulsory insurance, including medical, repatriation of rests and travel insurance. Health insurance program with comprehensive coverage in the host country for the duration of the academic period in which the student will be involved.
  - § Accommodation and living expenses.
  - § All costs associated with applying for and obtaining appropriate visas and travel documentation.
  - § Non-compulsory additional fees.
  - § Purchase textbooks, and
  - § All other debts incurred during the course of their stay.

## **6. General**

- 6.1 This agreement will come into effect on the date it is signed and will continue for three years, at the end of which it would need to be renewed if the parties agreed to do it.
- 6.2 This Agreement may be changed with the written agreement of both parties. Any changes within the study programmes, courses or other aspects concerning the development of the double degree, should be given in writing and be decided by the two parties in cooperation. This has to be done in due time for each institution's deadlines for changes in the study programme.
- 6.3 Either party may, by giving the other party no less than a year written notice, terminate this Agreement.
- 6.4 If this Agreement is terminated, any Double Degree student who has commenced a course of study prior to the termination date may complete that course of study in accordance with the terms of this Agreement.

- 6.5 All notices required to be given under this Agreement shall be in writing and sent to the party involved.
- 6.6 The parties agree that any controversies, disputes or claims resulting from this agreement shall be first submitted to mediation. This shall be conducted in English. A mediated settlement, if any, shall be reduced to writing. If necessary, both parties will agree on a neutral arbitrary mediator and will subject to its resolution.

## 7. Intellectual property

- 7.1 The parties convene that this Agreement does not grant to GUC or WUT any license of use or rights over the intellectual property of the other party. The use of trademarks and/or denominations representative of either party are strictly prohibited without the owner's written consent.

ANY ADDITIONAL ACTIVITIES MAY BE IDENTIFIED AND DEVELOPED AS RELEVANT TO THE PARTIES. THE EXTENT OF THIS INTER-INSTITUTIONAL AGREEMENT MAY ONLY BE LIMITED BY THE IMAGINATION, INITIATIVE AND CREATIVITY OF THOSE INVOLVED.

### Signatures:

<p><b>Wuhan university of Technology</b></p> <p>Principal _____:</p> <p>Sign: _____</p>	<p><b>Gjøvik University College</b></p> <p>Rector Prof Jørn Wroldsen</p> <p>Sign: _____</p>
<p>Place, date and stamp:</p>	<p>Place, date and stamp:</p>

## 8. Amendment:

### Dual Master Programme in Media Processing and Security

#### Study period and credits

The educational system of graduate students study time for master degree is 2 years. The credits for a graduate student of master are estimated in the following way: (2 Credits from WUT are equivalent to 5 ECTS at GUC). First year the students take courses from WUT: 25 credits in total, these are equivalent to 62.5 ECTS at GUC. Please notice that we are planning to make the students take the foreign languages and scientific methodology (we are assuming that scientific methodology it is equivalent to **Natural diagnostic methodology** course at WUT) at CUG during the second year. In the third semester they take 35 ECTS from one of the two tracks available at GUC. During the fourth semester (possibly the fifth semester also) they work on their master thesis project, which give them 30 ECTS at GUC.

#### Courses List

Course Type	Course code	Course Name	Credits	Course Semester	Teaching School	Remarks
Degree Courses	032100 1-005	<b>Foreign Languages</b>	4	1-2	Foreign Language	Could this be Norwegian taught HiG?
	112101 2	<b>Advanced Computer English</b>	2	1	Computer Science & Technology	
	022110 2	<b>Scientific Socialism Theory and Practice</b>	1	2	Art & Law	
	022110 3	<b>Natural diagnostic methodology</b>	2	1	Art & Law	Is this Scientific Methodology? ? IMT 4421
	052100 3	Theory of matrices	2	1	Science	<b>chooses 2</b>
	052100 6	Mathematical statistic	2	2	Science	
	052100 7	Stochastic process	2	2	Science	

	1121010	Modern Software Engineering	2	1	Computer Science & Technology	
	1121008	Advanced Principle of Artificial Intelligence	2	1	Computer Science & Technology	
	1121009	Modern Database Technologies	2	1	Computer Science & Technology	

Course Type	Course code	Course Name	Credits	Course Semester	Teaching School	Remarks
1st year Courses accepted at GUC	1122049	Modern Cryptography	2	2	Computer Science & Technology	IMT4532 Cryptology I
	1122054	Pervasive Computing	2	2	Computer Science & Technology	IMT4501 Recent Advances in Web Technologies
	1122058	Network and Computer Security	2	2	Computer Science & Technology	IMT4581 Network Security
	1122077	Multimedia Application Technology	2	2	Computer Science & Technology	IMT4811 image P & A IMT4451 Coding and Compression
	1122064	Technologies towards Semantic Web	2	2	Computer Science & Technology	IMT4891 Digital workflow Fundamentals
	1122068	Modern Digital Signal Processing	2	2	Computer Science & Technology	IMT4991 Math for Signal and Image Processing

2nd Year Course s 3rd Semester	Informatio n Security Track	Scientific Methodology	5ECTS	1	IMT	IMT 4421
		Applied Information Security	5ECTS	1	IMT	IMT4561
		Research Project Planning	5ECTS	1	IMT	IMT4601
		4 Electives	20ECTS	1	IMT	
	Media Technology Track	Scientific Methodology	5ECTS	1	IMT	IMT 4421
		Content-based Indexing and Retrieval	5ECTS	1	IMT	IMT4911
		Research Project Planning	5ECTS	1	IMT	IMT4601
		1 Advanced Course	5ECTS	1	IMT	
		3 Electives	15ECTS	1	IMT	
	2nd Year 4th Semester	Master Thesis Project		30ECTS	2	IMT

### Elective Courses (List to be finalized in collaboration with WUT)

IMT4721 Authentication	5 ECTS	
IMT4621 Biometrics	5 ECTS	5
IMT4751 Wireless communication security	5 ECTS	5
IMT4641 Computational Forensics	5 ECTS	5 ECTS
IMT4741 Intrusion detection and prevention	5 ECTS	5
IMT4881 Specialization Course	5 ECTS	5
IMT4801 Color Science	5 ECTS	
IMT4612 Machine Learning and Patter Recognition I	5 ECTS	5 ECTS
IMT4632 Machine Learning and Patter Recognition II	5 ECTS	5 ECTS
IMT4921 Media Security	5 ECTS	5
IMT4931 Semantic Web	5 ECTS	

## **Advanced Courses**

IMT5281 Advanced course in video processing	5
ECTS	
IMT5271 Advanced course in Web Technologies	5 ECTS
IMT5531 Advanced Course in Game Technologies	5 ECTS