**MEMORANDUM OF UNDERSTANDING**

**ON DUAL Ph.D. DEGREE PROGRAM**

between

**Daegu Gyeongbuk Institute of Science and Technology**

**Department of Energy Systems Engineering**

and

**University of Tours**

**Department of Physics, GREMAN Laboratory,**

**and** **Doctoral School “Energy, Materials, Earth and Universe Sciences”**

This memorandum is to outline the principles and define the practical rules for the dual degree program between Department of Energy Systems Engineering, Daegu Gyeongbuk Institute of Science and Technology (hereinafter referred to as “DGIST”) and Department of Physics, GREMAN Laboratory, Doctoral School “Energy, Materials, Earth and Universe Sciences”, University of Tours (hereinafter referred to as “UTOURS”).

**Article 1. Purpose**

The program is to help students obtain dual Ph.D. degree from DGIST and UTOURS on the condition that they fulfill the requirements of both institutions for such degree.

**Article 2. Definitions**

The “student” shall mean student participating in the dual degree program between DGIST and UTOURS. The “supervisors” shall mean the faculty members who supervise a doctoral student. The “defense and thesis jury” decides whether the doctoral candidate has provided such proof of competence that he/she may be admitted to the degree.

**Article 3. Number of Students**

The number of students admitted at both institutions will be discussed every year to fulfil the objectives of the present agreement. A maximum of ten (10) students will be admitted in both institutions per year and both institutions shall maintain a reasonable balance in the number of students from each institution.

**Article 4. Application**

4-1. A student for this program shall be selected according to his/her academic, personal, and linguistic qualifications.

4-2. A student is asked to prepare a study plan when applying for the program. The study plan must be approved by both supervisors. It will result in the execution of a specific international joint supervision Ph.D. agreement signed by the student and the supervisors of each institution.

**Article 5. Study and registration at host institution**

5-1. A standard period of this program is 3 years and the exact periods of stay shall be decided according to the agreement between the student and the two supervisors from both institutions. If student applies for extension of study period with a year, he/she needs the approval of both institutions (department chair or doctoral school, laboratory director, and his/her own supervisors).

5-2. A student is required to register according to the rules, the terms, and the calendars of both institutions during his/her stay at each institution, as defined in his/her international joint supervision Ph.D. agreement.

5-3. As for a joint degree program, a student will be administratively registered in both institutions. He/she will pay registration fees to one institution only, as mentioned in his/her international joint supervision Ph.D. agreement. When necessary, the student may also be required to pay other ancillary fees to the institution.

**Article 6. Curriculum and course/T.A. credit transfer**

A student will have to follow the theoretical, methodological, and applied programs proposed by the Doctoral School at UTOURS, and certify the equivalent training at DGIST. Three (3) DGIST credit points are equivalent to ten (10) UTOURS credit points (*i.e.* Hours of course per credit point are 15 at DGIST and 4 at Doctoral School “Energy, Materials, Earth and Universe Sciences”).

**Article 7. Financial Responsibility for Students**

Both institutions shall provide a fellowship to the student during his/her dual Ph.D. degree program, subject to available financial resources. Raising funds may be carried out jointly (co-funding) or separately by each institution.

**Article 8. Financial Responsibility of Students**

A student shall bear the cost of international travel and domestic travel, transportation, and all personal expenses including mandatory medical insurance and visa, unless provisions of the specific international joint supervision Ph.D. agreement expressly stipulate otherwise.

**Article 9. Administrative Services for Students**

9-1. Each institution shall provide documents and administrative services necessary for visa application and local settlement. Each institution shall provide an in-country orientation to student which will include pertinent information about local customs, business practices and travel.

9-2. Each institution shall offer accommodation in student halls of residence upon payment of applicable fees or shall provide information to assist student to find other living accommodations and to become integrated into his/her new social environment, but such assistance shall not include financial assistance.

**Article 10. Social Security for Students**

10-1. A student must have adequate insurance coverage against risks sustained when living abroad. He/she will be required to take, at his/her own expense, suitable medical insurance including special health costs, hospital fees and repatriation, providing adequate proof of this to both institutions.

10-2. Medical insurance might be provided by both institutions. If such insurance is not taken out, the student must provide adequate proof to both institutions that he/she possesses equivalent medical coverage. The student undertakes to agree that both institutions are not responsible for any personal injury, loss or damage suffered by the exchange participant in case of medical emergency or force majeure.

**Article 11. Thesis and Defense**

11-1. Subject to the agreement of both parties, the thesis shall be written in English. The abstract shall be written in English, French, and Korean.

11-2. The thesis must be presented at an oral defense according to the rules and regulations of both institutions. Subject to the agreement of both parties, the defense shall be done in English.

11-3. The defense shall be held once at one institution (DGIST or UTOURS). The specific conditions of the defense and the thesis jury will be negotiated between the institutions in the individual international joint supervision Ph.D. agreement.

11-4. Both institutions require the designation of two external reviewers who do not share common publications with the student to evaluate the Ph.D. thesis. If the reports are favorable, the doctoral school will allow the defense. The defense and thesis jury shall be composed of maximum of eight (8) and a minimum of four (4) faculty members, including the two external reviewers and eventually his/her supervisors.

11-5. The expenses for the travel and stay of up to three (3) jury members, if needed, may be paid jointly by both institutions.

**Article 12. Graduation and Diploma**

12-1. Both institutions agree to deliver the Ph.D. degree on the basis stated in Article 11 and as agreed in the individual international joint supervision Ph.D. agreement. Each institution shall deliver its own diploma according to its own rules and regulations.

12-2. Degree requirements of DGIST

1. A minimum of 72 credits, including a minimum of 36 credits from courses and a minimum of 36 credits from research courses (Thesis, Seminar and Internship), and a minimum 3.0 out of 4.3 cumulative GPA are required for completion of Doctoral degree at DGIST. A maximum of 36 credits obtained at UTOURS may be transferred to fulfill the credit requirements at DGIST.
2. International students at DGIST are required to take at least one Korean Language courses or to submit a TOPIK certificate with level 3 or higher.
3. A student must pass qualifying exam within 4 semesters, defend a preliminary and a final thesis evaluation and submit thesis proposal and abstract.

12-3. Degree requirements of UTOURS

 a) 180 credits or ECTS. The thesis represents 120 credits. 60 credits must be acquired by following the classes, workshops and seminars proposed by the doctoral school or by some master programs accredited by the doctoral school. About half of the credits must be acquire by following multidisciplinary or transversal formation to prepare the student to his/her future professional insertion. A maximum of 30 credits obtained at DGIST may be transferred to fulfill the credit requirements at UTOURS.

**Article 13. Renewal, Termination, and Amendment**

This agreement will come into effect with the appropriate signatures of each institution and after approval by the relevant authorities. It will be valid for a period of five (5) years. The agreement can be amended or extended if one party indicates a desire to do so to the other at least six months in advance, and no objection is raised by the other party within 30 days from the receipt of the notice. Both parties to this Memorandum may withdraw from the agreement by giving six months’ notice to the other party in writing. In the case of such withdrawal, it is agreed that any student, who at the date of the withdrawal has been accepted for and has started the program may complete the dual degree under the terms of this Memorandum.

Details that are not covered in the articles above and which are specific to each individual student may be determined upon mutual agreement and specified in the individual international joint supervision Ph.D. agreement.

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| For |  | For |  |
| Daegu Gyeongbuk Institute of Science and Technology (DGIST) |  | University of Tours (UTOURS) |  |
|   |  |   |  |
| Prof. Sang Hyuk Son |  | Prof. Philippe Vendrix |  |
| President |  | President |  |
| Date  |  | Date  |  |
|   |  |   |  |
| Prof. Jong-Sung Yu |  | Prof. Marc Lethiecq |  |
| Department Chair of Energy Systems Engineering |  | Director, GREMAN Laboratory, Department of Physics |  |
| Date  |  | Date  |  |
|  |  |   |  |
|  |  | Prof. François Tran-Van |  |
|  |  | Director, Doctoral School “Energy, Materials, Earth and Universe Sciences” |  |
|  |  | Date  |  |