



INTERNATIONAL JOINT TRAINING PROGRAM

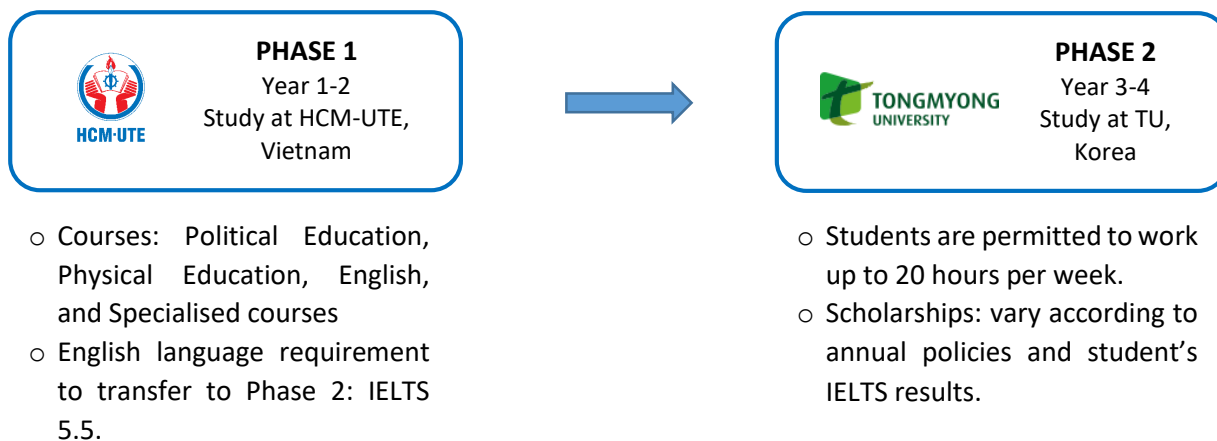
BACHELOR'S DEGREE IN MACHINE MANUFACTURING ENGINEERING TECHNOLOGY - 2+2 PATHWAY

TONGMYONG UNIVERSITY

OVERVIEW

- This is to provide the undergraduate joint training programs (2+2 pathway) in partnership with Tongmyong University (TU), Korea.
- Bachelor's degrees: be awarded by Tongmyong University (TU), Korea.
- Duration of the program: 4 years.
- Language instruction: English.
- Number of credits: 118 credits.

PROGRESSION PATHWAY



** Tuition fees and scholarship schemes are subject to change on an annual basis.*

LIST OF COURSES

PHASE 1 – YEAR 1 (Study in Vietnam)

Comp/Elec	Course Code	Course Name	Credits
Semester 1			10
Compulsory	INME130125E	Introduction to Engineering Technology	3
Compulsory	MATH141601E	Calculus 1	4
Compulsory	GCHE130603E	General Chemistry for Engineers	3
Compulsory	PHED110513E	Physical Education 1	*1
Elective	EHQT 130137E	Academic English 1	*3
Elective	EHQT 230237E	Academic English 2	*3
Semester 2			19
Compulsory	MATH141701E	Calculus 2	4
Compulsory	PHYS 130402E	Principles of Physics 1	3
Compulsory	PHED110613E	Physical Education 2	*1
Compulsory	EDDG240120E	Descriptive Geometry & Technical Drawing (3+1)	4
Elective	THME230721E	Mechanics in Engineering	3
Elective	MASI230226E	Materials Science	2
Elective	MATE211126E	Experiments in Materials Science	1
Elective	MHAP120227E	Mechanical Works Practice	2
Elective	EHQT 230337E	Academic English 3	*3
Elective	TEEN123725E	Technical English 1	*2

PHASE 1 – YEAR 2 (Study in Vietnam)

Comp/Elec	Course Code	Course Name	Credits
Semester 1			20
Compulsory	CAED230220E	Basic of Computer Aided Design (CAD) (2+1)	3
Compulsory	MATH141801E	Calculus 3	4
Compulsory	PHED130715E	Physical Education 3	3
Elective	STMA230521E	Strength of Materials	3
Elective	TOMT220225E	Measuring Techniques & Tolerances	2
Elective	EXMM210325E	Experiments in Mechanical Measurement	1
Elective	PCAD230220E	Practice Basic of Computer Aided Design	2
Elective	AWEP210426E	Arc Welding Practice	1
Elective	GWEP210326E	Oxy-acetylene Welding Practice	1
Elective	TEEN233825E	Technical English 2	*3

Semester 2			20
Compulsory	AMME331529E	Applied Mathematics in Mechanical Engineering	3
Compulsory		General Knowledge Option Course 1	4
Elective	TMMP230220E	Principles and Parts of Machines	3
Elective	PMMD310423E	Projects on Theory of machine and machine design	1
Elective	FMMT330825E	Fundamentals of Machine Manufacturing Technology	3
Elective		Foundation Knowledge Option Course	3
Elective	BATP 230327E	Basic Turning Practice	3
Elective	EHQT 230437E	Academic English 4	*3

PHASE 2 – YEAR 3 (Study in Korea)

Comp/Elec	Course Name (Korea)	Course Name (English)	Credits
Semester 1			27
Compulsory	기계요소설계	Mechanical Design	3
Compulsory	기계공작법	Mechanical Workshop Tech.	3
Elective	전기전자공학실험	Lab. for Electric and Electronic Engineering	3
Elective	기구학	Mechanism Analysis&Design	3
Elective	3D프린팅실습	Practical Understanding of 3D Printing Technologies	3
Elective	제어공학	Control Engineering	3
Elective	응용열역학	Applied Thermodynamics	3
Elective	금형설계	Die design	3
Elective	로봇공학	Robotics	3
Semester 2			30
Compulsory	유체역학	Fluid Mechanics	3
Elective	생산시스템관리	Manufacturing Sys. Management	3
Elective	CAE응용실험	CAE	3
Elective	창의적공학설계_Capstone Design	Creative Engineering Design	3
Elective	공작기계및CAM	CAM	3
Elective	기계진동학	Mechanical Vibrations	3
Elective	기계시스템설계	Machine System Design	3
Elective	3D프린팅응용설계	3D Printing application Design	3
Elective	마이크로프로세스실습	Microprocessor practice	3
Elective	기계측정학	Metrology	3

PHASE 2 – YEAR 4 (Study in Korea)

Comp/Elec	Course Name (Korea)	Course Name (English)	Credits
Semester 1			21
Compulsory	종합설계_산학연계 Capstone Design	Capstone Design 1	3
Elective	첨단소재가공시스템	Advanced Material Processing System	3
Elective	전산열유체	Computational Thermo-Fluid Flow	3
Elective	유한요소법	Finite Element Method	3
Elective	기계공정설계	Machine Process Design	3
Elective	머신비전	Machine Vision	3
Elective	기계운동제어	Machine dynamic control	3
Semester 2			18
Compulsory	전공연구_산학연계 Capstone Design	Capstone Design 2	3
Compulsory	현장실습	Internships	3
Elective	융합기계시스템	Mechanical Convergence Engineering System	3
Elective	소성가공학	Plastic Working	3
Elective	지능형부품설계	Intelligent mechanical component Design	3
Elective	로봇응용시스템	Robot system application	3