



TaiwanICDF International Higher Education Scholarship Programs

International Bachelor Program in Mechanical Engineering

Kun Shan University

ICDF Online Registration Website: <http://www.icdf.org.tw/ct.asp?xItem=12509&CtNode=30320&mp=2>

KSU Detail Information Website: <http://www.ksu.edu.tw/eng/unit/D/A/IO/pageDetail/11061/>

KSU Registration Deadline for ICDF Scholarship: March 17th, 2017

All materials must be submitted to the Office of International and Cross-Strait Affairs, Kun Shan University.

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Introduction of University

Kun Shan University, then known as Kun Shan Institute, was officially founded on April 29th, 1965 in the Da Wan area of Yong Kang City. Originally, it was planned as a junior college of industry and business; however, the Ministry of Education's final decision was to approve it as a junior college of industry. In August, 1971, The Evening School of the two-year junior college program was established; and in July, 1991 the business departments were finally set up and the school was renamed Kun Shan Institute of Technology. In August, 1996, under the order of the Ministry of Education, it was promoted to a technological college with an affiliated junior college on campus. The Evening School was then changed to the Department of Continuing Education. In 2000, this school was again promoted and officially changed to Kun Shan University. Within the university, six colleges were established: College of Engineering, College of Business and Management, College of Applied Human Ecology, College of Creative Media and College of Information Technology, and International College. Kun Shan University now consists of technological college with four-year programs (twenty five departments).

Kun Shan University has established partnerships with many schools. The Chung-Buk National University in the Republic of Korea and the Wihemshaven Institute of Technology in Germany contracted alliances as Sister Schools with Kun Shan in 1975 and 1986, respectively. In 1996, we contracted partnership with both Wellington polytechnic and Auckland International College in New Zealand. Then in the year 2000, Kun Shan University expanded its international scope of cooperation by joining four more universities from around the world in Sister School alliances; Manchester Metropolitan University in England, Linz University in Austria, Duke University in the United States, North Bangkok University in Thailand, Costa Rica Institute of Technology, Cartago in Costa Rica, Universidad de Panama in Panama, Instituto Tecnológico Centroamericano in El Salvador, Universidad Iberoamericana de Ciencia y Tecnología in Nicaragua, Universidad Tecnológica Centroamerica in Honduras.

Kun Shan University, a fine school of higher education, was established fifty years ago and is located in southern Taiwan on a beautiful and spacious campus which is the home of outstanding student body and faculty. It is hoped that Kun Shan University will experience continued steady growth and expansion throughout the 21st century, making it a truly first-rate international university. Kun Shan University accommodates the policy of the government to develop technological and vocational education. It complies with the economic goals of the country and with the trends of the local enterprises. This school will offer education in both applied science and technological services and also promotes continuing education. It aims to train students to work as the professionals of engineering, management, business, and

creativity. Kun Shan has put emphasis on integrating school transportation, campus landscape and structures, department offices, regular classrooms and laboratories in order to provide a comfortable education environment. As for the integration of college buildings, they have been remodeled to accommodate the six colleges:

College of Engineering

The primary objectives of this college are to provide well-qualified professional engineers and leaders for the needs of national economic and industrial development and to upgrade the level of the nation's industry. There are six research centers in the Education and Research Building, Micro& Precision Manufacturing Center, Nano Technique Research & Development Center, Clean Energy Research & Development Center, Health Care Technology Research Center, Intelligent Vehicle Research & Development Center, and Sustainable Environment and Remote Sensing Research Center.

College of Business and Management

The college emphasizes on creativity, leadership, and internationalism with the main research focus in the area of commercial modernization. This focus compliments faculty research and integrates the disciplines of information, logistics, finance, personnel and service management. The Technology Management Research Center is built for the purpose of providing extra opportunities for students to put theory they learned into practice, and educating students to become effective professional managers in modern business.

College of Applied Human Ecology

The College of Applied Human Ecology is aimed at cultivating excellent talents at humanities. The mission of the College is, in addition to assisting in promoting affairs relevant to the above institutions, to encourage the coordination and incorporation of the resources belonging to them. Furthermore, the College is intended to actively promote the internationalization of education by holding the international conferences to interchange information with other advanced countries and to enhance our prestige and status in scholarship.

College of Creative Media

The College of Creative Media offers timely and unique programs that provide foundational design skills, emphasizing on "Creative, Design, Media, and Marketing" as core elements; integrating the professional skills such as printed, graphic and multimedia design offered by the Department of Visual Communication Design; audio-visual and computer generated media production provided by the Department of Motion Picture and Video; landscaping, environment and virtual space design offered by the Department of Spatial Design, as well as integrated marketing communication and business promotion service in the creative industry provided by the Department of Public Relations and Advertisings.

College of Information Technology

Research and teaching of this College cover all fields of hardware and software design, integration, application, and management of information, communications, and network. Each department/institute has its own responsibility but emphasizes on the integration of teaching and research resources. The educational objective is to cultivate hi-tech talents who are able to apply the modern information technology and associate with the industry to enhance the living quality of humankind.

International College

The school established the International College on February 1st, 2012. It is committed to promoting International Courses and Chinese Teaching. Currently, there are Chinese program, International Bachelor Program in Mechanical Engineering, International Master Program in Mechanical Engineering, and International Master Program in Business Administration.

International Bachelor Program in Mechanical Engineering

The students will earn the “Bachelor of Science in Mechanical Engineering” degree from the Department of Mechanical Engineering after completing their studies.

I. Introduction of Program

A. Program Overview

Kun San University (KSU) is proud to relay this unique opportunity to international high school graduates who are interested in obtaining a bachelor’s degree in Mechanical Engineering. KSU is one of the few universities sponsored by the International Cooperation and Development Fund (TaiwanICDF), to offer such an unprecedented four-year college program to outstanding international students. This program is designated to nurture students to be novel and well-cultivated engineers and scientists with good expertise for modern engineering.

B. Program Objectives

The goals of this program include:

- To encourage foreign students to learn relevant culture courses as selective ones, thus enabling students to learn within a multi-cultural environment.
- To make arrangements for students to have opportunities as an intern, to visit and interview Taiwan technology industries in order to understand Taiwan technology industrial models. We hope to increase foreign students’ desire to work with Taiwan in the future.
- To cooperate with famous schools, recognize each other’s programs, promote dual academic degrees together.
- To invite visiting professors to give lectures in the program. Create and increase the interactions between students and visiting professors.

C. Core Courses for Mechanical Engineering Program

The compulsory courses of this program include: Calculus, Physics, Workshop, Chemistry, Computer Programming, Mechanisms, Engineering Mathematics, Material Engineering, Computer-Aided Engineering, Applied Mechanics, Manufacturing Processes, Mechanics of Materials, Thermodynamic, Machine Design, Industry Management, Special project, and ME special topic presentation. The elective courses are: Introduction to Computer Science and Practice, Introduction to Nanotechnology, Micro-Electro-Mechanical System, CAD/CAM, NanoBio-Optics, Reverse Engineering & Rapid Prototyping, and Micro-Sensor Systems& Energy. For more information on the courses, please refer to Appendix.

D. Minimum Credits for graduation: 128 Credits.

II. Qualification

- A. Applicants applying for TaiwanICDF scholarship must meet both the **General Eligibility Criteria** (<http://www.icdf.org.tw/public/Attachment/6123011421064.pdf>) and be a national of a country on the **List of Countries Eligible for TaiwanICDF Scholarship** (<http://www.icdf.org.tw/public/Attachment/612301142389.pdf>). Applicants must also meet the Regulations Governing Visiting, Resident, and Permanent Residency of Aliens set by Taiwan National Immigration Agency.
- B. The applicant must have graduated from either a high school or a vocational high school which is recognized by Taiwan Ministry of Education to apply for admissions.

III. Admission

- A. Application Requirements:
- Applicants must apply for TaiwanICDF Scholarship (Apply online) and university (Apply by Email/post) admissions **separately**. (**Note:** Those who have incomplete documents or illegible handwriting on their application forms will result in a fail application).
 - Requirements for TaiwanICDF admission:
 1. A complete online application form (completed online, printed out and signed)
 2. A photocopy of applicant's passport or other document showing proof of nationality
 3. A photocopy of applicant's highest-level diploma and academic transcripts
 4. A photocopy of applicant's English proficiency certificate
 5. Two letters of reference
 6. Any other documents specifically requested by an Taiwan Embassy/Consulate (General)/ Representative Office/ Taiwan Technical Mission or project representative.
 - Requirements for university admission: (All the documents should be presented in English.)
 1. 2017 KSU Application form for ICDF
 2. One photocopy of highest degree diploma and transcripts
 3. Evidence of English proficiency (TOEFL iBT 87 or the grade of TOEFL ITP 543)

4. Two recommendation letters (Please use the form provided by KSU)
5. Autobiography
6. One photocopy of passport

B. Some Issues about Application:

- The applicant should make sure that himself/herself is an eligible applicant and should check correctness of all application documents.
- The application with missing articles, incomplete forms, or illegible handwriting will not be accepted by KSU. The applicant cannot make any changes to his/her application documents after sending them out. KSU will not return any application documents to the applicant, no matter he/she is accepted by KSU or not. Therefore, please make a photocopy of all documents before sending them out.
- Personal Information Collection Statement (Statement of Notification Obligation According to Article 8 of the Personal Information Protection Act) : Acting according to Article 8 of the Personal Information Protection Act, the Office of International and Cross-Strait Affairs of Kun Shan University (hereinafter referred to as the Organizer) hereby discloses to you the following information that you should read carefully before filling out the application:
 1. The Organizer has to collect personal information about you to process the “Application for Admission and Exchange Student from Foreign Students” or the “Application for Exchange Student Overseas from Kun Shan University Students”. The collection, processing and use of personal information about you shall be subject to regulations set forth in the Personal Information Protection Act and related laws. The personal information to be collected and used this time is as listed in the application form. The said information will be used in evaluation and selection meetings and posted online. It includes the name, department and nationality of the student, etc. The use will be permanent. The user will be the Organizer.
 2. You may act according to Article 3 of the Personal Information Protection Act and apply to the Organizer for access to, duplication of, or presentation of supplementations or changes to the personal information about you that the Organizer has collected or request the Organizer to stop collecting, processing or using such information. However, with information that the Organizer has to retain in order to execute its duties as required by law, the

Organizer may not comply with your request.

3. You have the liberty to decide whether to provide your personal information. However, if you refuse to provide related personal information, the Organizer will be unable to accept your application.

IV. Application Deadline

TaiwanICDF Online Registration deadline: **March 17th, 2017**

- Procedure 1:

Online registration: <http://www.icdf.org.tw/ct.asp?xItem=12509&CtNode=30320&mp=2> or http://web.icdf.org.tw/ICDF_TSP/WelcomeStart.aspx

- Procedure 2:

All required documents should be sent to TaiwanICDF.

- Procedure 3:

All materials (required documents) must also be sent to the Office of International and Cross-Strait Affairs, Kun Shan University by email **OR** post.

V. Contact Information

Office of International and Cross-Strait Affairs, Kun Shan University
No.195, Kunda Rd., Yong-Kang District, Tainan City 71070, Taiwan

Tel: +886-6-2727175 ext. 258

Tel: +886-6-2050659

Fax: +886-6-2053271

E-mail: oiae@mail.ksu.edu.tw

School website: <http://www.ksu.edu.tw/eng/>

Appendix

International Bachelor Program in Mechanical Engineering 4-Year Course Schedule

105 學年度入學適用

1 st Academic Year		2 nd Academic Year		3 rd Academic Year		4 th Academic Year	
1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd
Semester	Semester	Semester	Semester	Semester	Semester	Semester	Semester

General Courses (Total: 26 Cs)

Foreign Language I (華語(一)) (3-0-3)	Foreign Language II (華語(二)) (3-0-3)	Foreign Language III (華語(三)) (3-0-3)	Foreign Language IV (華語(四)) (3-0-3)	Foreign Language V (華語(五)) (3-0-3)	Foreign Language VI (華語(六)) (3-0-3)	General Education IV Foreign Language Seminar (華語文專題) (2-0-2)	
Labor Education I (勞作教育(一)) (0-1-0)	Labor Education II (勞作教育(二)) (0-1-0)		General Education I– Taiwan Culture (台灣文化) (2-0-2)	General Education II– Modern Technology (現代科技) (2-0-2)	General Education III– Technique Writing (華語寫作技巧) (2-0-2)		
3-1-3	3-1-3	3-0-3	5-0-5	5-0-5	5-0-5	2-0-2	

Compulsory Courses 必修 (Total: 62Cs)

Calculus I (微積分(一)) (3-0-3)	Calculus II (微積分(二)) (3-0-3)	Engineering Mathematics I (工程數學(一)) (3-0-3)	Engineering Mathematics II (工程數學(二)) (3-0-3)	HandsOn I (實務專題(一)) (0-3-1)	HandsOn II (實務專題(二)) (0-4-2)	HandsOn III (實務專題(三)) (0-3-1)	
General Physics and Experiment I (普通物理與實驗(一)) (2-2-3)	General Physics and Experiment II (普通物理與實驗(二)) (2-2-3)	Thermodynamics (熱力學) (3-0-3)	Thermal Lab (熱工實驗) (0-3-1)	Numerical Methods and Lab (數值分析及實習) (2-2-3)			
Chemistry (普通化學) (3-0-3)	Shop Work II (工廠實習(二)) (0-3-1)	Mechanics of materials (材料力學) (3-0-3)	Mechanical Elements (機械元件設計) (3-0-3)				
Engineering Graphics (圖學) (1-3-2)	Applied Mechanics (應用力學) (3-0-3)	Mechanisms (機構學) (3-0-3)	Materials Lab (材料實驗) (0-3-1)				
Shop Work I (工廠實習(一)) (0-3-1)	Engineering Materials (機械材料) (3-0-3)	Manufacturing Process (機械製造) (3-0-3)					
Computer Programming (計算機程式) (1-3-2)	Computer Aided Drawing (電腦輔助繪圖) (1-2-2)	Electronics and Lab (電子學及實習) (2-2-3)					
10-11-14	12-7-15	17-2-18	6-6-8	2-5-4	0-4-2	0-3-1	0-0-0

Elective Courses 選修

(Based on every semester opening courses, the minimum requirement of total credits: 40 Cs)

1 st Academic Year		2 nd Academic Year		3 rd Academic Year		4 th Academic Year	
1 st	2 nd	1 st	2 nd	1 st	2 nd	1 st	2 nd
Semester	Semester	Semester	Semester	Semester	Semester	Semester	Semester
Water Activities (水域活動) (2-0-1)	Computer Engineering Applications and Lab (電腦工程應用及實習) (2-2-3)	CAD/CAM (電腦輔助設計與製造) (2-2-3)	Computer Aided Engineering (電腦輔助工程分析) (2-2-3)	Computer Aided Rapid Prototyping (電腦輔助快速原型製作) (1-2-2)	Computer Aided Rapid Prototyping (電腦輔助快速原型製作) (1-2-2)	CAE in Mechanism and Dynamic (機構與動力分析) (2-2-3)	Digital Image Processing (數位影像處理及實習) (2-2-3)
	Pneumatics and Hydraulics Lab (氣液壓學及實習) (1-2-2)	Programmable Logic Controller (可程式控制原理與應用) (1-2-2)	Introduction to Sensors and Measurements (感測與量測概論) (2-0-2)	Fluid Mechanics (流體力學) (3-0-3)	Heat Treatment (熱處理) (3-0-3)	Mechatronics and Lab (機電整合及實習) (2-2-3)	Creative Design Methods (創意設計技法) (3-0-3)
	Non-traditional Machining (非傳統加工) (3-0-3)	Surface Engineering Technology (表面工程技術) (3-0-3)	Electromagnetism (電磁學) (3-0-3)	Introduction to Finite Element Method (有限元素法概論) (3-0-3)	Refrigeration and Air-conditioning Technology (冷凍空調) (3-0-3)	Reverse Engineering and Lab (逆向工程及實習) (2-2-3)	Semi-Industry Equipments (資訊設備工程導論) (3-0-3)
	Soccer and Management (足球訓練與管理) (2-0-1)	Dynamics (動力學) (3-0-3)	Manufacturing Technology Analysis (製造技術分析) (3-0-3)	Heat Transfer (熱傳學) (3-0-3)	Fluid Mechanics Lab (流固力實驗) (0-3-1)	Noise Control (噪音控制) (3-0-3)	M.E. Seminar II (機械工程專題討論(二)) (0-2-1)
		Introduction to Automatic Control (自動控制) (3-0-3)	Vibrations (振動學) (3-0-3)	Introduction to Plastic Injection Molding (塑膠射出成型概論) (3-0-3)	Computational Fluid Dynamics (計算流體動力學) (3-0-3)	Introduction to Energy Engineering (能源工程概論) (3-0-3)	Quality Control (品質管制) (2-0-2)
			Heat Transfer (熱傳學) (3-0-3)		Industrial Management (工業管理) (3-0-3)	Advanced Automotive Engineering (高等汽車工程) (3-0-3)	
					Automotive Engineering (汽車工程) (3-0-3)	M.E. Seminar I (機械工程專題討論(一)) (0-2-1)	
						Industrial Design (工業產品設計) (3-0-3)	

Minimum for Total Credits: 128 Cs

Note:

1. (Le – Lb – Cs), Le: Lecture hours, Lb: Lab hours, Cs: Credits;

2. The university reserves the right to make changes to the courses offered without prior notice.

The minimum requirement for a B.S. degree is to complete one-hundred-twenty-eight credits which are possibly included the exempt credits from the transfer university.