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| 8 | Andrew Bliss | 學術 | 生物科技系 | <http://bio.stust.edu.tw/en> | The biotechnology industry is widely recognized as one of the most promising high-tech industries of the twenty-first century. Both manpower and skilled technology will be much sought after by the biotech companies of the future.    Southern Taiwan University established the Department of Biotechnology in response to this trend in 2002. The main purpose of the Department is to cultivate the development of engineers, processing engineers, quality control engineers, and business professionals in related bio-industries.    In addition to the above, which keep with the university’s goals and mission, this department further defines itself with the following goals and values:    (1) A close fit with the national technology and economic trends    (2) Both teaching and research combined with pragmatic principles    (3) To build a sustainable development of teaching and research environment by combining the industrial development    (4) To create a high-quality academic place of technology, human culture, industrialization, and internationalization    (5) Continue to explore the future of humankind's knowledge and skills, and constantly open up future progress and happiness of humankind, to achieve the vision of sustainable industries      History:    1. In 2001, established the Biotechnology Section, Department of Chemical Engineering    2. In 2002, established the Department of Biotechnology, and the Institute of Biotechnology    3. In 2003, established the Executive Master Program of Institute of Biotechnology    4. In 2004, the Department of Biotechnology was renamed as the Department of Biological Science and Technology, and the Institute of Biotechnology became the Master’s program of Department of Biological Science and Technology. **Aims and Objectives of the Department** Aims and Objectives of the Department  The main purpose of the Department is set up the development engineers, processing engineers, quality control engineers, and business professionals in the related bio-industries.    The Department was accredited by IEET International Engineering and Technology Education certification in 2007, and became an internationally recognized education system and a department with officially recognized international standards.  Development Direction:  Unable to edit. Meaning is too unclear.  **The Present Status of the Department**  The Present Status of the Department  1. The Students    The Department has three kinds of classes: undergraduate, graduate, and executive master's classes.    47 students come from the general senior high schools,  while eight students are from vocational high schools and majored in chemicals, hospitality, and agricultural courses.  A total of 55 students are enrolled for each year, along with 25 graduate program students and 17 executive master's program students.    2. Faculty  The department currently has 17 full-time teachers including the President, three professors, 11 associate professors, and three assistant professors. Another eight teachers are from Chi Mei Medical Center, and three part-time teachers.    3. The Key Laboratory  1. Molecular Biology Laboratory  2 Functional Products Laboratory  3 Biochemical Engineering Laboratory  4 Fermentation Engineering Laboratory  5 Molecular Pharmacology and Cell Physiology Laboratory  6 Immune- and-pharmacological Laboratory  7 Natural Products Laboratory  8 Biotech Trial Production Plant  9 Cells Animals Laboratory  10 Animal Room    4.Important Instruments and Equipment    5. Counseling Firms  There are more than 60 local manufacturers and two foreign firms  in Taiwan had been counseled by the Department.    6. R & D Results (Development of Products)    The Department has developed for over 30 biotech products through industry-academic cooperation or technology transfer. **Faculty** The faculty consists of 25 full-time teachers, either assistant professors or above. In addition, there are eight adjunct teachers through Chi Mei Hospital, and another five through another adjunct facility.  Teachers’ Backgrounds cover life science, biomedical, food biotechnology, agricultural biotechnology, biochemical engineering and other fields. |