# APPLIED SCIENCE BACHELOR (D IV) PROGRAMS

In welcoming Asean Economic Community Year 2015, information and communication holds very important role for higher education institution. For informing public about education in State Polytechnic of Sriwijaya, Prospectus of State Polytechnic of Sriwijaya has been published. This prospectus describes general information about educational system, Department/Study Program, educational facilities, human resource, and regulation in State Polytechnic of Sriwijaya.

It is hoped that this prospectus will be beneficial for public and stakeholders of State Polytechnic of Sriwijaya.

Thank you.

RD.Kusumanto, ST, M.M.
Director.
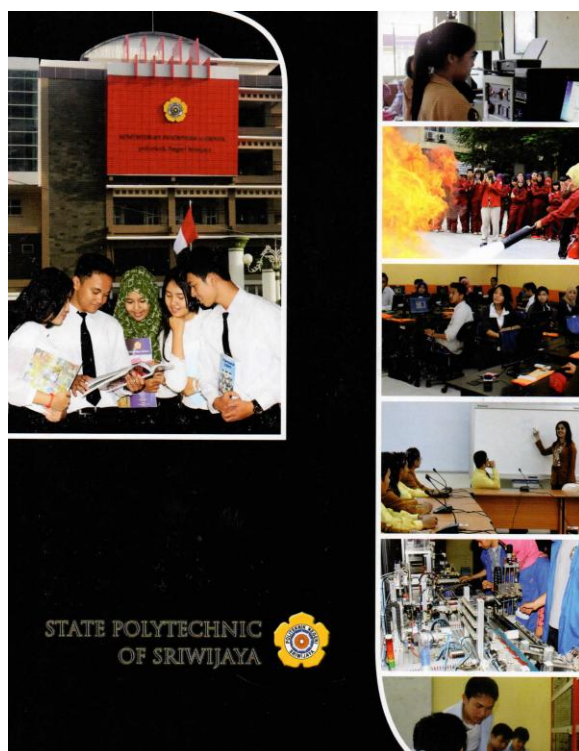
HISTORY

State Polytechnic of Sriwijaya (Polsri), formerly named as Polytechnic of Sriwijaya University (Unsri) was formally opened on 20 September 1982. At the beginning, it had only 2 (two) Departments-Civil Engineering and Mechanical Engineering Department-with a maximum capacity of 576 students. The employed human resources and curriculum were assembled nationally and centered in Polytechnic Education Development Center (PEDC) in Bandung.

In second phase, in year 1986, Polytechnic expanded Commerce Department consisting of two concentrations-Accounting and Administration. Then in 1987, Polytechnic expanded the field of Engineering. The new fields of Engineering were Electrical, Electronics, Telecommunication, and Industrial Chemical Engineering. In 1992, Commerce Department evolved into two departments, namely Department of Accounting and Department of Business Administration. Experts who helped in the development of engineering were from Swiss Contact, while experts for commerce were from Australia.

Development of Polytechnic which can produce graduates who can fulfill local, national and international job market demand makes Polytechnic

Introduction

The rapid growth of industrial world in globalization era requires skilled, professional and independent human resource that has good personality and discipline. Vocational Higher Education Institution is the answer to this.

State Polytechnic of Sriwijaya as one of higher vocational education institution which produces professionals who have relevant skills for industry or stakeholder, continuously maintain and improve the quality of education for nation's development.

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independent since 1998 as stated in Decree of Education and Culture Minister Number: 235/O/1998 and it changed its name into State Polytechnic of Sriwijaya.

In the year 2002/2003 two new departments- Computer Engineering and Information Management were established. This establishment was set based on the Director General of Higher Education letter No. 2800/D/T/2001.
Besides Diploma III program (DIII), right now State Polytechnic of Sriwijaya has Applied Science Program (DIV) for Road and Bridge Design which was opened in 2002 and Energy Engineering which was opened in 2009.

Until now State Polytechnic of Sriwijaya has been cooperated with governmental agencies and industries. Polsri and Government of South Sumatera Province opened cooperation class for Power Plant Concentration. Polsri and Conocophillips opened cooperation classes for Mechanical Engineering and Chemical Engineering. In the academic year 2011/2012 Polsri and JOB Pertamina Talisman Jambi Merang opened cooperation class for Chemical Engineering. Besides that starting from 2010 to 2012 Polsri and PT PLN (Persero) opened cooperation classes in Electrical Engineering Study Program for candidate employees of PT PLN (Persero). In 2012 Polsri was one out of three Polytechnics in Indonesia which was pointed as the institution of Past Learning Recognition (PLR) pilot project program.

Vision
Toward a leading, qualified and innovative vocational education institution.

Mission
1. improving quality of education management in the field of engineering and non-engineering based on quality assurance system;
2. developing, disseminating, and applying science, technology, art and good quality of applied research results for productive activities and for improving the quality of community life;
3. developing organization and improving the quality of resource management to achieve effective, efficient, and sustainable performance;
4. enhancing partnerships with third parties for mutual benefit in order to improve the quality of Tri Dharma.

Purposes
1. To increase the number of graduates that have good quality, high discipline, good morale, entrepreneurial spirit, environmental concept, and up to date information about industrial development;

2. To enhance the dissemination of science, technology and art, and qualifed results of applied research to be used in productive activities and improve the quality of community life;

3. To increase the quality of management by empowering and developing organization based on the principles of good governance and able to face future challenges;

4. To increase the quality and the efficiency of educational management service;

5. To increase the quantity and quality of mutual benefit partnerships with third parties;

6. To enhance partnerships with third parties for mutual benefit in order to improve the quality of Tri Dharma.

Advantages

- Six-Semester-Long Education for D III program and Eight-Semester-Long Education for D IV program
- Competency-based Education
- Experienced and Skilled Lecturers
- Open, skilled and high work ethic performance
- Work ready and competitive graduates for global market era
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Public Facilities
- Mosque
- Parking Lot
- Public Facility Building
- Two Story Parking Lot
- Hotspot Area
- Wall Climbing
- ICT Center
- Tennis Court
- Indoor Badminton

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CIVIL ENGINEERING
ROAD AND BRIDGE DESIGN
STUDY PROGRAM

Introduction
Civil engineering is one of the oldest departments in State Polytechnic Sriwijaya. It was founded in 1982. It has produced thousands of alumni who work in government and private agencies. Civil engineering department continues to develop. The strength of Civil Engineering that support its development is:
- B level of Accreditation
- Job market for graduates is promising
- Waiting time for graduates to get first job is relatively short
- Development of infrastructure is increasing
- It has applied science bachelor Degree (D IV)
- Production based education system
- Relevant educational background faculty
- Facilities available can be used not only for supporting the process of teaching and learning but also for public trainings and services

Vision
Road and Bridge Design Study Program of Civil Engineering Department State Polytechnic of Sriwijaya as leading, professional, qualified institution of higher education for road and bridge design as well as able to compete global challenges based on the five principles and Constitution '45.

Mission
1. Producing qualified, disciplined and virtuous graduates who are able to apply science and technology and develop themselves in facing the advances of Civil Engineering especially in road and bridge areas;
2. Improving the quality of education and applied research culture as well as be innovative on market production by cooperating with other parties in road and bridge areas.

Purposes
As an effort to fullfil job market demand of labors that is professional, reliable, skilled, and able to answer and solve various problems in road and bridge design engineering.

Targets
1. At the end of academic year 2013/2014 at least 75% of graduates' GPA ≥ 3.25;
2. At the end of the academic year 2013/2014 at least 80% of graduates' job waiting period ≤ 6 months;
3. At the end of the academic year 2013/2014 at least 30% of graduates have at least one (1) certificate of expertise/skill;
4. At the end of the academic year 2013/2014 the number faculty research least 5 titles per year;
5. At the end of the academic year 2013/2014 the number of community services at least 5 titles per year.

Strategies to achieve targets
Strategies For Achieving Target I
1. Design and prepare materials and learning process that correspond with stakeholders desired competencies;
2. Monitor and control learning processes;
3. Improve instructional methods and media.

Strategies For Achieving Target 2
1. Cooperate with industry;
2. Establish communication links with alumni;
3. Conduct debriefing for prospective graduates.

Strategies For Achieving Target 3
1. Cooperate with the professional associations especially with LPJKD South Sumatra;
2. Establish communication links with Polsri Alumni Association;
3. Invite alumni to share experience with prospective graduates;
4. Implement training and competency testing in civil engineering field.

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Strategies For Achieving Target 4
1. Cooperate with other parties in doing researches;
2. Conduct research method trainings for faculty;
3. Invite guest lecturers.

Strategies For Achieving Target 5
1. Cooperate with stakeholders in conducting community service;
2. Conduct training about community service for faculty.

Graduates' Profile
Produce professional, disiplined, dedicated, creative, innovative, good morality, religious graduates who master science and technology in planning, supervising and implementing road and bridge construction.

Learning Outcomes
1. Able to apply their expertise and utilize science, technology, and / or art of their expertise in solving problems;
2. Able to adapt to working situation;
3. Master theoretical concepts of sciences needed in civil engineering areas in general and master specialized theoretical concepts of these sciences in depth, and able to solve related admistrative problems;
4. Able to take right decisions based on information and data analysis, and able to provide guidance in selecting various alternative solutions individually and in group;
5. Responsible for individual work and organization's achievement.

Graduates' Competences
Core Competences
Able to design, implement, monitor and manage road and bridge construction.

Supporting Competences
Students have the ability and expertise in the areas of:
1) Road and bridge design;
2) Road and bridge Engineering;
3) Pavement engineering;
4) Road and bridge constructionprojects;
5) Road and bridge construction, monitoring and maintenance;
6) Aspects of legal ethics.

Other Competences
1. Able to use road and bridge construction software;
2. Able to communicate in English.

Training Services
- Road Construction Supervisor
- Bridge Construction Supervisor
- Contractor
- Contractor
- Road Construction Planner
- Bridge Construction Planner

Production and Consultation Services
- Soil Testing
- Surveying
- Asphalt Test
- Construction Material Test
- Concrete Test
- steel Test

Facilities
- Soil Mecanics Laboratory
- Construction Material Laboratory
- Transportation Laboratory/Road
- Surveying
- Structure Laboratory
- Hydraulics Laboratory
- Masonry
- Carpentry
- Welding and Plumbing Laboratory
- Drafting Studio
- Computer Studio
- Air Conditioned Classrooms, Infocuses, Spot Free Area
- Seminar Room

MECHANICAL ENGINEERING
MECHANICAL PRODUCTION AND MAINTENANCE ENGINEERING STUDY PROGRAM

Introduction
Mechanical Production and Maintenance Engineering in general is addressessed for supporting and accelerating development of Human Resource (HR) in Indonesia in order to win

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competition in globalization era through Applied Science Bachelor Program. This program is aimed for generating graduates who have professional skill in Mechanical Production and maintenance Engineering.

Vision
Toward a leading and innovative vocational education study program at national and regional level, the pioneer of science and technology development in the field of mechanical production dan maintenance, highly qualified graduates who have both knowledge of mechanical production and maintenance and religious values within 10 years ahead.

Mission
1. Organizing applied science education that generates self-motivated, high morale, green concepted and technopreneurial graduates;
2. Organizing independent or cooperation applied research and disseminating the results for developing science and technology of mechanical production and maintenance;
3. Planning and organizing community service by utilizing science technology of mechanical production and maintenance for improving common welfare.

Purposes
1. To produce mid-level managers and professionals that are able to apply science and technology in production process and maintenance of industrial machinery;
2. To play a role in improving people's lives through research and community service.

Targets
1. At least 75% of graduates' GPA $\geq$ 3.00 (scale 0 4) in each academic year;
2. At least 50% of graduates' waiting period to get a job first $\leq$ 6 months;
3. At least 80% of alumni have one certificate of competency;
4. At least 50% of Alumni have TOEIC score $\geq$350

Strategies to achieve targets
Strategies for Achieving 1st Target
1. Design and prepare learning materials and activities based on stakeholders' demand (100 % of the RAP , SAP and AP);

2. Monitor and control learning process (the average learning hour is $\geq$ 95 % of the scheduled learning hour and the average of student attendance is $\geq$ 95 % of scheduled attendance);
3. Improve methods and instructional media (100% of the total number of learning contract).

Strategies for Achieving 2nd Target
1. Initiate partnership with industry and maintain communication links with alumni who have or have not gotten jobs yet;
2. Conducting seminars/training and invite speakers from the industry/stakeholder for prospective graduates about work ethic and the ins and outs of industry and job.

Strategy for Achieving 3rd Target
Organize training and competency testing in the fields of production, maintenance and repair.

Strategies for Achieving 4th Target

1. Cooperate with other parties in developing English learning program which is suitable with industrial/job market demand;
2. Set TOEIC test for English subject semester test.

Graduates' Profile
The graduates of Mechanical Production and Maintenance Engineering are able to implement moral values and ethics of science technology, religion and society in designing, implementing, monitoring and controlling production system and maintenance in mechanical machineries.

Learning Outcomes
1. Master basics of manufacturing/production, maintenance/repair of industrial machinery;
2. Able to carry out work and formulate solution for procedural problems by using appropriate skills in manufacturing/production, maintenance / repair of industrial machinery and heavy equipment, and able to work in team;
3. Able to choose standard or non standard method in carrying out production process, maintain industrial machinery;
4. Able to communicate with team work in completing job and is able to write work report;
5. Able to act and behave in society and in line with workplace career norms;

6. Able to follow development of science, technology, and / art in the field of production engineering, industrial machinery.

Graduates' Competences

1. Master basics of manufacturing engineering / production, and maintenance / repair of industrial machinery;
2. Able to carry out job task and formulate procedural problem solving by using appropriate skills of manufacturing engineering to / production, and maintenance / repair of industrial machinery, and able to work in team;
3. Able to differ standard and non-standard method in carrying out the process of manufacturing / production, and perform maintenance/industrial repair machinery;
4. Able to communicate with team work in completing job and able to prepare written report;
5. Able to act and behave accordingly in real life and in work place;
6. Able to adjust to the development of science, technology, and/art of manufacturing engineering/production, and industrial machineries.

ELECTRONICS ENGINEERING
MECHATORICS STUDY PROGRAM
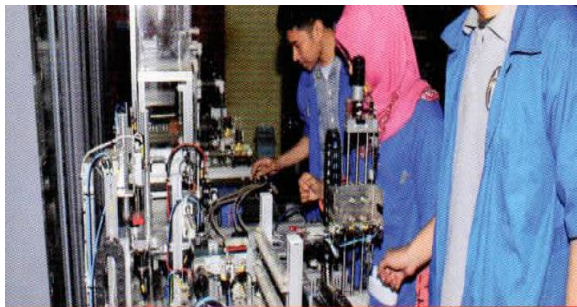
Introduction

Education system is required to make changes leading to improvement of competence and competitiveness of human resource in global market competition. For this Electronics Engineering Study Program State Polytechnic of Sriwijaya opened Mechatronics Engineering Study Program (D IV). This study program is expected to increase the participation of State Polytechnic of Sriwijaya in providing Electronics professionals that can build nation's competitiveness in the global market and be

recognized for professional work both nationally and internationally.

Mechatronics Engineering Study Program (D IV) is one of study programs in Electrical Engineering Department. The establishment of Mechatronics Engineering Study Program (D IV) in the academic year 2013/2014 is aimed at generating graduates that can design, apply, solve problems, have managerial capability, follow the development of science and technology in mechatronics (Kepmendiknas Number 232/U/2000) , and are excellent at mechanics , electronics (microprocessor / microcontroller , instrumentation and control , maintenance and repairs , analog and digital) and informatics.

Mechatronics Engineering Study Program (D IV) is the first applied science study program (D -IV) of Electrical Engineering in the South Sumatra. This is a kind of advantage for Mechatronics Engineering Study Program (D IV).

Vision

The vision of Mechatronics Engineering Study Program (D IV) is "well-known and recognized as professional education provider which has excellent competence in the field of electronics especially in mechatronics." The formulation of the vision is very relevant to Polsri's vision, namely: Toward a leading vocational institution.

Mission

a. Producing qualified, deciplined,creative, innovative, good moral graduates who have competence in applied mechanics, electronics and informatics;
b. Developing and disseminating mechatronics through research, professional training, and community services;
c. Providing professional education that can generate skilled, independent and professional mechatronics engineering graduates, provide professional training and cooperate with public, industry, government and state owned companies.

Purposes

The purpose of Mechatronics Engineering Study Program (D IV) is to generate good attitude, responsible and independent man-power for mechatronic supervisor / engineer who are able to design, make realization, test, modify electronic

circuits, solve mechatronic problems, have good managerial capability and follow the development of mechatronics.

Targets

Based on the purpose of Mechatronics Engineering Study Program (D IV) that is to generate good attitude, responsible and independent mechatronic supervisor / engineer who are able to design, make realization, test, modify electronic circuits, solve mechatronic problems, good managerial capability and follow the development of mechatronics, the targets of Mechatronics Engineering Study Program (D IV) are as follows:

a. At least 75% of graduates' GPA ≥ 3.00 (range 0-4) / academic year;

b. At least 50% of graduates' waiting period to get first job ≤ 6 months;

c. At least 80% of graduates have one type of certificate of competence;

d. At least 50% of graduates' TOEIC score ≥ 350.

Strategies to achieve targets

a. Improving methods, media and materials structurally based on syllabus, SAP, and teaching and learning contracts. The total number of Instructional hours is at least ≥ 90%;

b. Carrying out tracer study to industry, state owned companies or private companies which are closely related to Electronics field and forming partnership with graduates who work in industries or agencies in order to obtain information about job vacancies;

c. Conducting Training and competency testing in mechatronics, instrumentation (sensors and electric motors), microprocessors, control systems (PLC) and maintenance;

d. Improving students' English ability and get them to speak English during seminar / discussion / debate / lecture exposure.

Graduates' Profile

a. Hard workers with future vision, able to work together in team, able to work under pressure, disciplined, creative, good leadership skill, independence and communicativel;

b. Able to operate modern tools that evolve with the development of science and technology in the field of Mechatronics (Pneumatic & Hydraulic, Mikrotik Networking, Computer Programming for industrial machinery and

robotics), instrumentation, Programmable Logic Control (PLC) and Maintenance & Repair (MR);

c. Able to speak English, Chinesse, etc..

Learning Outcomes

Learning Outcome of Mechatronics Engineering Study Program (D IV) includes :

a. Personality

Honesty, dedication, hard work, future vision, team work capability, ability to work under pressure , good discipline, high creativity , leadership skills , independence and good communication skill.

b . Science mastery and Skills

Excellent mastery of basic science for basic of engineering. Mastering the principles and techniques of electronics design such as automatic control using a microcontroller, PLC , instrumentation, and mastering computer application in electronics such as Protel , EWB , Livewire , Pinnacle and Matlab computer programs and applications in microcontrollers and robotics such as Assembly , Basic and the C + + language , in order to be able to work as supervisor , project implementers , supervisors , marketing engineer , supervisor / bureaucrats , managers at the company / state owned companies or private companies , or self-employed .

c . Working capability

- Able to design electronic systems based on; Microcomputer , Microcontroller , Mechatronics , Programmable Logic Controller (PLC) , Instrumentation , and master software applications and hardware (Programmable Devices) as the cornerstone of electronic system implementation as well as network and information technology applications in supporting electronic system performance;

- able to monitor design implementation by paying close attention to attention to design details and quality control ;

- Able to present some alternative solutions and make decisions based on scientific consideration.

d . Attitudes and Behavior at Work

Professional, able to work in team, prioritize security and safety , understand project management concept, capable of analyzing problem, economy-minded, provide quality assurance and understand the concept of report writing .

e . Social values

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Responsible for individual work and team work, communicative, good attitude , appreciative and active . Able to evaluate and manage themselves and effectively communicate information and ideas in various forms of electronics media to electronic member and public.

Graduates' Competences
Core Competences
The core competences of Mechatronics Engineering Study Program (D IV) are as follows:

a. Mastering the basic principles of microprocessors , microcontrollers , instrumentation , control systems , maintenance and repair;

b. Mastering the basic principles of Mechanics and Informatics (Computer Systems , Programming and Network);

c. Able to run basic and advanced application (practice) of mechanics , informatics , microprocessors , microcontrollers , instrumentation , control systems , maintenance and repair;

d. Able to design, test and modify electronic circuits and monitore the implementation of the design;

e. Able to present several alternative solutions and make decisions based on scientific consideration.

Supporting Competences
The supporting competences of Mechatronic Engineering Study Program (D IV) are as follows :

a. Able to run computer program applications in electronics such as Protel , EWB , Livewire , Pinnacle and Matlab;

b. Able to run computer program applications in microcontrollers and robotics such as Assembly, Basic and C + + languages .

Other Competences
Other competences of Mechatronics Engineering Study Program graduates (D IV) are as follows:

a. Able to communicate internationally / able to speak foreign language;

b . Able to socialize;

c . Able to be entrepreneur in the field of electronics.

Training Services
- Microprocessor Training

Mechatronics Engineering Study Program (D IV) will conduct TUK in Mechatronics Lab for PLC certification. TUK is under Institute for Professional Certification (IPC) which is under the auspices of National Professional Certification Board (NPCB).

Facilities
- Air conditioned class rooms with LCD Projectors, Wall Screen Projectors
- Mechanical Workshop
- Electronics Engineering Workshop (PCB Design Realization and Wiring Workshop)
- Microprocessor Lab
- Instrument Lab
- Automatic Control Lab
- Analog / Digital Labs
- Maintenance and Repair Lab
- Mechatronics Lab
- Library
- Student Center
- Mosque
- Sport facilities
- Academic Advisor

TELECOMMUNICATIONS ENGINEERING
TELECOMMUNICATIONS STUDY PROGRAM

Introduction
Telecommunications Engineering Study Program (D IV) was established as the development of telecommunications engineering D III program in facing fast growth of telecommunications technology. This study program was established in 2013 based on the Decree of the Minister of Education and Culture of the Republic of Indonesia number: 202/E/O/2013 dated May 21, 2013.

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Currently, it has accepted one class for morning and also one class for afternoon. The management system of this study program is based on Quality Management System (QMS) ISO 9001: 2008.

Vision

Toward a leading vocational education study program in Telecommunications Engineering that develops qualified competence in telecommunications network so as to prepare professionals that can compete in global industry.

Mission

1. Developing applied science education in the field of Telecommunications particularly in communication technology and networking;
2. Creating positive academic atmosphere and qualified and systematic learning process so as to optimize potential and creativity of the entire college member;
3. Implementing learning process by doing innovation in Telecommunications that fit to industrial and global market needs;
4. Producing graduates that are capable of designing, building and maintaining telecommunication devices in accordance with the needs of telecommunication networks industry and services through an integrated learning process.

Purposes

a. To produce graduates who are competent in telecommunication networks and communication technologies so as to meet the needs of industry and society;
b. To produce innovative telecommunication and communication works that meet the need of national industry and can solve telecommunication network problems both analytically and by using measuring instruments;
c. To improve competence and competitiveness of Telecommunications Study Program in serving industry, community and nation.

Targets

1. Able to develop science and technology in the field of telecommunications by mastering and understanding the approaches, methods, scientific principles and application:
   - Graduates work in related- industry ≥50% in 2018
   - At least 75% of graduates' GPA > 3.00
2. Able to solve problems in telecommunication by implementing and using appropriate method instrumentation: (breadth)
   - Starting from 2018, At least 50% of alumni reach 0-6 month first job waiting period
3. Able to develop professional performance in telecommunication networks indicated by the sharpness of problem analysis, the sufficiency of review, the cohesiveness of problem solving and professional ethic: (professionalism)
   - In even semester in 2017 at least 80% of alumni have certificate of competence.
4. Programmed learning environment which can promote self-reliance in achieving learning goals and in social life: (learning environment)
   - Has 90% adequate main and supporting laboratory at the end of 2014;

   - At least 40% of the students are involved in research and community service;
   - At 40% of the students participate in local or national student creativity program.
5. Entrepreneurship capability

Strategies to achieve targets

1. Provide structured and dynamic learning materials that correspond to the syllabus.The curriculum consists of courses in accordance with the desired competencies;

2. Improve the quality of laboratory;

3. Improve human resource capacity to provide training on especially on new imported equipment are mainly imported .

4. Support from the lab to develop skills in both hardware and software;

5. 56 % practice and 44 % theory;

6. Provide additional skills certification such as the latest software to each candidate graduates. Training will be given to students in semester VI or VII. The schedule of the training will be specified later;

7. Involving students in making scientific articles and involve students in faculty research every year

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through Student Creativity Program (PKM);

8 . Following seminars/conferences/scientific forum on telecommunication network technology all over Indonesia and abroad as it has been done by some permanent faculty of D.IV telecommunication Engineering program;

9 . Improving academic atmosphere for students to increase their motivation in learning by;
- Motivator activities-inviting experts to improve motivation and achievement of students in mid-2014;
- Intensifying the role of an academic supervisor.

10 . Continuing collaboration with Axiata PT.XL in the form of training of students and public lectures/seminars .

11 . Increase collaboration with industry and graduates who work in the industry and government agencies to obtain information about the needs of the competency -based curriculum. This activity is carried out 6 months after the first graduates of the program D.IV or in the 1st half of 2017;

12 . Involve faculty in tracer studies to related industry and government agencies for partnership program.

13. Deployment questionnaires for the purposes of relevant changes in the educational curriculum in order to develop human resources in industry . This activity is carried out 6 months after the first graduates of the program D.IV or in the 1st half of 2017.

Graduates' Profile
Telecommunications Study Program organizes education for 4 years (8 semesters) with a composition of 42% theory and 58% practice. The competences to be developed among others are designing, building and maintaining Telecommunication Network.

Learning Outcomes
1. Master basics of telecommunications network;
2. Able to design, build and maintain telecommunications network;
3. Able to solve problem by evaluating instrumentation based on appropriate methods;

4. Able to communicate, make decisions and provide advice in solving telecommunication network problem.

Graduates' Competences
Core Competences

Radio and Television Communication
1. Able to work at wireless telecommunication Systems such as Radio and Television in which the line communication is fixed;
2. Able to install Radio and television Network mainly inside the studio.

Cellular communications: GSM and CDMA
1. Able to work in mobile telecommunication system agencies;
2. Able to operate GSM and CDMA control device

Networkings: LAN, WAN and the Internet
1. Able to work in internet local system using cable network;
2. Able to install LAN, WAN and internet Network

Able to adapt to the development of Telecommunications Technology
Since the beginning, students not only learn materials that are in accordance with the curriculum and syllabus, they also do independent task so they can develop their potential.

Supporting Competences
Design and maintain telecommunication devices

Other Competence
Entrepreneurship

Facilities
8 loboratories with the newest facilities:

1. High Frequency Laboratory
2. Basic Telecommunications Laboratory
3. Analog and Instrument Tools Laboratory
4. Data Communications Laboratory
5. Microprocessor Laboratory
6. Transmission Laboratory
7. Digital Lababoratory
8. Signal processing Lababoratory

Two new laborotories:

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1. Mechanics workshop
2. Electronics workshop

CHEMICAL ENGINEERING
ENERGY ENGINEERING STUDY PROGRAM
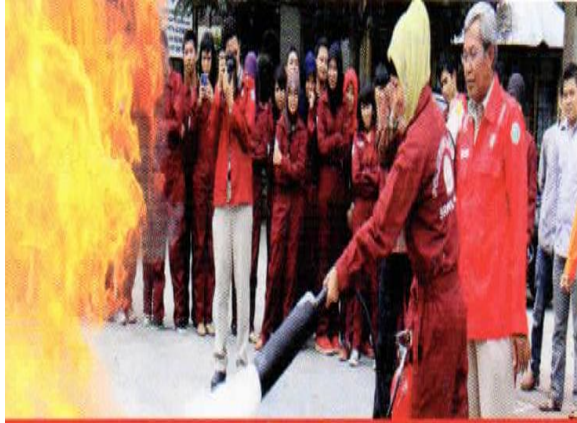
Introduction
Applied Science Bachelor Program in Energy Engineering State Polytechnic of Sriwijaya is the development of DIII program of Chemical Engineering. It was established in 2009 as the effort to meet the needs of energy engineering industry job market and as the academic development of State Polytechnic of Sriwijaya.

Vision
Toward a leading vocational education institution of energy engineering professionals.

Mission
1. Develop higher vocational education to produce graduates who are competent in technology for nonrenewable energy utilization and energy conservation;
2. Increase the number of applied researches, and disseminate the results for Energy Engineering development;
3. Increase the quality of community services through application of science and technology of Energy Engineering to improve quality of life.

Purposes
To produce Energy Engineering bachelors with engineering and managerial capabilities.

Targets
Produce professional engineers who are able to analyze, audit and monitor energy systems, develop and carry out research.
1. at least 75% of graduate GPA $\geq$ 3.15 (0-4 scale);
2. At least 50% of graduates per academic year reach $\leq$ 6 month first job waiting period;
3. At least 6 innovative research titles per year;
4. at least 6 community services done per year.

Strategies to achieve targets
1. Provide materials that are appropriate to the syllabus, SAP, and learning contract, improve learning methods structurally and dynamically and use teaching material for each subject in each semester. In the learning process, evaluation is done by giving tasks, quizzes, mid test I, mid test II and semester test so that at the end of the semester each student's GPA can be monitored;
2. Provide information about job opportunities in government and private agencies and industry through POLSRI website and PJTKI;
3. Encouraging faculty and students to write scientific articles each month and engage students in faculty researches each year and conduct seminars on energy;
4. Involve students to participate in the community service activities.

Graduates' Profile
Energy's professional engineers that have the ability to analyze, audit, monitor energy system and care for the environment.

Learning Outcomes
1. Capable and responsive in solving energy problems by using skill and knowledge of science and technology, and able to adapt to various situations and conditions;
2. Master general and specific concepts in energy and able to formulate solution to problem associated with energy system;
3. Able to take decisions based on data and audit result information analysis and provide solutions individually or in team;

4. Responsible for working and project achievement in energy area.

Graduates' Competences
Core Competences
1. Able to perform thermal system analysis on industrial process equipment;
2. Able to audit energy system in the effort energy conservation;
3. Able to plan, monitor and optimize energy system need.

Supporting Competences
1. Able to plan and develop research in energy engineering;
2. Able to be entrepreneur.

Other Competences
Honest, independent personality, high dedication.

Training Service
-Auditing energy system
-Optimization of energy systems
-Industrial Management

Production and Consultation Services
- Energy equipment design
- Fuel quality testing
-Energy system audit

Facilities
Laboratories and workshops

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INDUSTRIAL CHEMICAL TECHNOLOGY STUDY PROGRAM

Introduction

Industrial Chemical Technology was established for answering industrial demand that is in line with the development of chemical technology. Industrial Chemical Technology (DIV program) is under Department of Chemical Engineering. It consists of Industrial Chemical Technology (DIV program) and Industrial Chemical Technology (DIV program for DIII graduates).

Vision
Toward a leading and well-known applied science bachelor study program in preparing human resources in the field of Industrial Chemical Technology.

Mission
1. Organize vocational education to produce graduates who are competent in the field of chemical technology industry;
2. Implement and utilize the results of applied research in the field of chemical technology industry;
3. Organize community service by applying science and technology in the field of chemical technology industry to improve life quality

Purposes
To produce capable and professional Applied Science Bachelor (ASB) in the field of chemical technology.

Targets
Produce professional engineers who are able to analyze, audit, monitor, and are able to take effective and efficient decisions in chemical technology industry area.

Strategies to achieve targets
1. Each new student gets an explanation about polytechnic education system so that students can adapt and prepare for the following teaching and learning activities as well as possible so as to obtain maximum performance of GPA ≥ 3.20.
2. Monitor GBPP, lesson plan, and learning contract of teaching and learning process by organizing cross check on activity control in which every lecturer fills after teaching for making sure that every students get the transfer knowledge that fits to the standard competences;
3. Provide clean comfortable rooms, teaching aids like LCD, Laptops / Computers, reference books, textbooks, modules and practice guidelines;
4. The presence of teaching staff and students in class at least 90%;
5. Increasing role of Academic Advisor (AA) in monitoring students' learning progress and motivate students to improve learning achievement;
6. Assign coordinator of group expertise (CGE) for verifying UTS and UAS test questions fit standard competences and also assuring that

test questions of one subject taught by several lecturers are the same;

7. The curriculum consists of 40% theory and 60% practice;

8. Join internship program in industry for 3-5 months as in an attempt to familiarize them to real working condition.

Graduates' Profile

Professional engineers in the field of Industrial Chemical Technology eho have the ability to formulate solution, analyze information and data, formulate procedural, utilize science and technology of Industrial Chemical Technology and understand green concept.

Learning Outcomes

1. Capable and are responsible for solving problems in the field of Industrial Chemical Technology, using science and technology expertise possessed and able to adapt to various situations and conditions encountered;

2. Master general theoretical concepts, as well as specialized areas of Industrial Chemical Technology and formulate solution to solve problems related to processing system.

Graduates' Competences

Core competences

1. Responsible for personal and organizational work in the field of Industrial Chemical Technology;

2. Decision maker of problem solving process in the field of Industrial Chemical Technology;

3. Person in charge for solving Industrial Chemical Technology problems.

Supporting competences

1. Able to implement and utilize the results of applied research in the field of Industrial Chemical Technology;

2. Able to be entrepreneur.

Other competences
Honest, independent, fully dedicated and responsible for profession.

Training Service

- Coal Analysis
- Material Analysis
- Process Controlling
- Quality Control of Production
- Petroleum Analysis

Production and Consultation Service

Production Service:
-Bio Diesel
-Essential Oil
- Distilled Water
-Nata de Coco
-Nata de Soya

Consultation Service:
-Coal
-Petroleum
-Qualitative and Quantitative Analysis

Facilities

-Coal Analysis Lab.
-Analytical Instrument Lab.
-Process Controlling Lab.
-Petroleum Technology Lab.
-Process Lab.
-Food Lab.
-Bio Process Engineering Lab.
-Basic Chemical Analysis Lab.
-Pilot Plant Lab.
-Chemical-Physic Lab.

ACCOUNTING
PUBLIC SECTOR ACCOUNTING
STUDY PROGRAM

Introduction

Public Sector Accounting (D IV Program) State Polytechnic of Sriwijaya is a study program under Accounting Department State Polytechnic of Sriwijaya based on Directorate General of Higher Education Decree Number: 2258/E1.3/HK/2012 dated December 14th, 2012.

APPLIED SCIENCE BACHELOR (D IV) PROGRAMS

It was established to answer demand for public sector accountants in the future. It focuses on accounting for central and local government, and also non-governmental, such as foundations, political parties, hospitals, and so forth. Besides that starting from year 2014 accrual basis of accounting in all regional work units (SKKPD) has been implemented. In consequence the need for governmental accountants rises. Meanwhile, current number of governmental accountants is not sufficient yet.

Vision
In year 2027 Public Sector Accounting will become the best and most reliable partner for public sector organizations in Sumatra.

Mission
a. Organizing appropriate and community need base applied science education that is equivalent to S1 degree and applied research for the improvement of community welfare in order to support national development efforts;
b. Maintaining and developing a healthy and dynamic professionalism;
c. Developing and utilizing science and technology for enhancing community welfare by optimal empowerment of accounting department in general, Public Sector Accounting in particular.

Purposes
To produce graduates who have Public Accounting Sector ability to carry out work by having basic professional abilities, namely:
a. abilities to do planning, conducting, and responsible problem solving;
b. managerial skills; and ability to follow the development of knowledge and technology;
c. ability to adapt with working atmosphere and have the ability to do sustainable learning.

Targets
Public Sector Strategic Accounting targets which are based on Polsri strategic plan 2015-2017:
a. Produce graduates with a minimum GPA of 3.25 and English language proficiency (TOEIC) of at least 405, as well as communication skills, teamwork, creativity, independency, integrity and noble character that responds the need challenges of service users nationally and internationally;
b. Increase the number and quality of faculty research and community service activities that are constructive for the benefit of society as well as research publications in accredited journals nationally and / or internationally;
c. Increase student involvement in research and community service activities as well as student activities domestically and internationally ;
d. Empower alumni network for the benefit of program development;
e. Increase the intensity of faculty involvement in activities related to the development of knowledge held within and outside Indonesia;
f. Increase capacities of units within study program, and increase the satisfaction of students, faculty, employees and third parties;
g. Improve communication and collaboration with other parties for the purpose of internships for students.

Strategies to achieve targets
In order to achieve the goals, vision, mission, and purposes, Public Sector Accounting provides supporting facilities including representative laboratory facilities, teaching modules, and syllabus, multi media and air conditioned study rooms, representative library, and hot spot area.

Graduates' Profile
a. Public Sector Accounting staff;
b. Public Sector Accounting Supervisor;
c. Public Sector Auditor;
d. Analysts of Public Sector Accounting Information System;
e. Credit Analyst of Public Sector;
f. Staff for management of governmental goods / services procurement;
g. Tax Staff of Public Sector Accounting Department;
h. Tax Supervisor of Public Sector Accounting Department.

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Learning Outcomes
Able in managing good, clean, and transparent public sector.

Graduates' Competences

Core Competences
a. Able to understand public sector area and execute all processes in public sector accounting and make required financial statements including the process of (a) journal recording, (b) ledger posting, (c) subsidiary-ledger posting, and (d) other processes that support the preparation of the formal and informal reports based on government and public sector accounting standards;

b. Have adequate understanding about audit of financial statements and able to implement and compile reports for auditing tasks based on auditig and code of ethic standards of Indonesian Accountant Association;

c. Able to understand and design the implementation of the internal control system in an information system by utilizing information technology for the implementation of governmental and other public sector transactions;

d. Able to understand tax laws and regulation of implemention as well as a wide range of underlying theories of tax collection , and apply them in public sector accounting transactions;

e. Able to read , analyze , interpret and explain the information in financial statements whether in the form of quantitative or qualitative information and can provide recommendation for financial statement users in decision-making process;

f. Understand the concept of budgeting and have the skill to prepare a comprehensive budget for financial management of local government and other public sectors;

g. Able to manage asset and do procurement of governmental goods / services.

Supporting Competences
a. Able to act and behave ethically (according to the code of professional ethics) in applying professional accounting skills in the community;

b. Able to work in team, and be discipline in carrying out professional responsibilities;

c. Capable of carrying out the responsibilities carefully; and

d. Able to see the opportunity to do business, and evaluate business performance for further business development.

Other Competences
a. Able to operate and make a simple accounting computer programs ; and

b. Able to communicate in english at work .

Training Services
a. Regional Financial Accounting System Training;

b. Training on procurement.

BUSINESS ADMINISTRATION
TOURISM BUSINESS STUDY PROGRAM
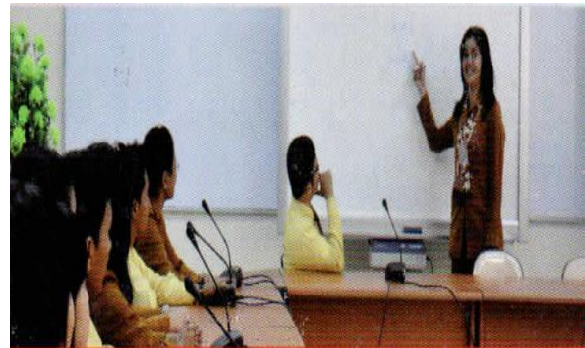
Introduction
Tourism Business Study Program (DIV) is one of new study programs started at odd semester in the academic year 2013/2014. This study program is aimed at providing reliable workforce for tourism industry, especially in South Sumatra and in Indonesia in general.

The establishment of this study program is for welcoming the flourish development of tourism industry in South Sumatra. This study program is the

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first study program that provides applied science education in the field of tourism in South Sumatera.

Vision

Toward a leading, qualified, and competitive vocational education institution in the field of tourism business (MICE).

Mission

1. Improving the quality of tourism business based on quality based assurance system;
2. Developing, disseminating and applying science, technology, and art in the field of MICE for productive activities and improve the quality of people's lives;
3. Developing organization and improving the quality of human resource management in Tourism Business Study Program (DIV) in order to achieve effective, efficient, and sustainable performance;
4. Enhancing mutual benefit partnerships with industry and other parties in order to improve the quality of Tri Dharma.

Purposes

To produce reliable managerial capabilitiy human resources in the field of business tourism (MICE) that posses good mastery of information technology.

Targets

1. Produce skilled graduates in the field of tourism business;
2. Produce graduates that have reliable managerial capabilities such as identifying and solving problem, making work plan, organizing, controlling, and evaluating jobs.

Strategies to achieve targets

1. Ensure learning process realization of at least 95%;
2. Implement practice with up date equipment and sufficient material;
3. Perform structured internships in MICE industry;
4. Cooperate with MICE industry for internships program and sources of learning;
5. Implement interactive learning with student-oriented method of discussion, case studies and simulations.

Graduates' Profile

1. Event organizer that includes business meetings, business conference and exhibition;

2. Manager of tourism transportation and accommodation business;
3. Consultant in the field of tourism;
4. Tourism Marketing;
5. Entrepreneur in the field of tourism;
6. Policy maker in the field of tourism (Bureaucrat).

Learning Outcomes

1. Able to implement activities in the field of tourism industry (MICE) by utilizing science, technology, and arts of management in solving problem and able to adapt to various situations;
2. Master the theoretical concept of MICE (Meeting, Incentive, Convention and Ehibition) in-depth, and able to formulate problem solving;
3. Able to take right decisions based on information and data analysis;
4. Responsible for individual work and able to take responsibility as a leader.

Graduates' Competences

1 . Event organizer that includes business meetings, product launching , seminar , business conference and exhibition which is based on users' demand.
   • Able to create creative and interesting concept;
   • Able to carry out planned activities;
   • Able to lead job implementation;
   • Able to find sponsors for any activity ;
   • Posses good mastery of information technology to support event organizer activities.
2 . Manager of tourism transportation and accommodation businesses.
   • Able to manage travel agency business;
   • Able to handle required documents for travelling;
   • Posses good mastery of information technology to support transportation and accommodation business.
3. Consultant in the field of tourism.
   • Able to provide advice for clients' benefit
   • Able to create concepts and control business activities as delegated by clients
   • Posses good mastery of information technology to support consultant business .
4. Tourism Marketing.
   • Able to create marketing concepts that are reliable in terms of product , price promotion and distribution ;
   • Able to promote products ;
   • Able to communicate convincingly ;

• Capable of doing business negotiation ;
• Posses good mastery of information technology to to support marketing activities.
5. Entrepreneur in the field of tourism.
   • Able to identify tourism business opportunities;
   • Able to create comprehensive business concept;
   • Able to market the products;
   • Able to identify and manage business risks;
   • Able to manage business with reliable managerial ability.
6. Policy maker in the field of tourism (Bureaucrat).
   • Able to obtain accurate information as the basis of decision making
   • Able to predict future and make various relevant assumptions.
   • Able to make appropriate policy based on various existing information .

Training Services
- Tour Guide
- Travel Pattern
- Saptapesona and Sadar Wisata
- Table Manner
- Customer Service
- Photograph Tourism
- Event Organizer

Facilities
• Fully air-conditioned Classrooms
• Classrooms with LCD
• Computer Laboratory (2)
• Multimedia Computer Laboratory and Programming (MICE)
• Management Laboratory
• Seminar Laboratory
• Business Simulation Laboratory
• Secretariat Laboratory
• Ethics Laboratory
• Manual Keyboarding Labotratory
• Electronic Keyboarding Laboratory
• Hall

MANAGEMENT BUSINESS STUDY PROGRAM

Introduction

This study program was established to fulfill high demand for labors with management background. In any recruitment, industries almost always recruit employees with this background. Furthermore, the high growth of industry, especially financial and banking industries in South Sumatra cause the growing need for workforce in terms of quantity and quality. Public's interest on management major in various universities is very high. There must be a high-quality study program designed to produce graduates who have competences needed by industries.

Education system in Business Management Study Program is different from other universities because it implements an education system which combines learning theory (40 %) and practice (60 %). Practice activities carried out in several laboratories which are designed as closely as possible to the actual working conditions; field trip; Internship; as well as periodically invite speakers- practitioners and experts in banking and financial sectors.

In general, alumni can fill various positions in the industry by having their core competences. In addition to skill competence, alumni are also educated to have reliable managerial abilities such as ability to identify problem, ability to plan, organize, and mobilize subordinates, ability to monitor, and evaluate. They are expert in implementing business strategies in tough business competition and have good discipline, reliable communication skills, ability to work in team, good work ethic and high spirit.

Vision
Toward a leading, excellent, qualified and competitive vocational education study program (D-IV) for applied science in financial and banking business sectors and reliable entrepreneurship.

Mission
1. Improving finance and banking business education based on quality assurance system;

APPLIED SCIENCE BACHELOR (D IV) PROGRAMS

2. Producing graduates who have reliable entrepreneurial ability;
3. Developing, disseminating, and applying science, technology, and art in finance and banking sectors as well as entrepreneurial ability for productive activities and improving living quality;
4. Developing organization and improving the quality of resource management in Business Management study program in order to achieve effective, efficient, and sustainable performance;
5. Enhancing mutual benefit partnerships with industry and other parties in order to improve the quality of Tri Dharma.

Purposes
To generate human resources who master and are expert in finance and banking business and have the ability to be professional entrepreneurs who have good managerial capability and good mastery of information technology.

Targets
1. Produce human resources who have good competence in finance and banking sectors;
2. Produce human resources who have managerial capabilities such as identifying and solving financial and banking problems; planning, organizing, controlling, monitoring, and evaluating financial and banking activities.

Strategies to achieve targets
1. Strategies to increase the number of applicants of this study program include: promotion through website (Business Administration Website and Polsri website , brochures, students' promotion to their previous high school);
2. Develop selection systems (UMPN , UMM , PMDK , and Bidik Misi);
3. ISO 9001/2008 for Business Administration Department and P2MI;
4. Organize socialization for program about attendance monitoring system for faculty and students;
5. Organize socialization for program about absence punishment for faculty and students conducted by head of study program and assisted by academic advisor;
6. Monitor curriculum implementation done by head of study program and advisors;
7. Organize socialization for program about Work Instructions (SOP) for evaluating students done by advisors;
8. Organize socialization for program about student assessment standards;
9. Plan the learning system done by lecturers;
10. Monitor students' grades starting from their first semester in Business Management Study Program done by advisors;
11. Implement guidance and counseling for troubling students done by advisors;
12. Provide library service-Business Administration and Polsri libraries;
13. Provide opportunity for students to get scholarships and student achievement programs (PPA, BBM, and PMW);
14. Strategies to improve graduates' chances to get work fast by collaborating with industry through direct recruitment, and building relationship with industry through networking and job expo.

Graduates' Profile
1. Funding and Service: Able to raise public funds, able to classify various existing funds as intended, able to establish fund compensation, provide information service for the community;
2. Marketing: Able to assess and map the target market, able to select the most potential target market, and capable of marketing all banking product to target market. Capable of giving recommendation about different types of investments that fit customers' needs;
3. Lending: Able to identify loan application based on the loan application assessment of retail and non- retail and able to market loan products, able to make loan contracts, and able to maintain the number of consumers;
4. Treasury: Able to understand and implement liquidity risk, rate interest risk , exchange rate risk , credit risk in allocating funds other than credit, purchase securities and properties. Compliance risk associated with treasury. Operational risks associated with functions and duties of treasurer;
5. HRD: Able to design, implement, monitor and control human resource in banking sector. Able to do need analysis for human resource. Able to assess employees' performance based on the existing standards, proposed reward and punishment based on the performance. Able to train and develop employees;

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6. Finance: Able to read and interpret balance sheet of assets and liabilities of bank, capable to plan financial programs based on the prevailing assumptions, capable of implementing financial program and controlling it;
7. Risk Management: Know and understand the different types of financial and banking risk, capable of identifying and predicting the risk, capable of monitor the progress of the risks and capable of controlling various inherent risks based on prudence principles of a bank;
8. Wealth Management: Able to make debtor's financial profile based on data and information identification, capable of providing consultation service in determining appropriate type of investments, portfolio and risk profile, capable of performing time value of money calculation for the debtor, able to provide advisory services on debt and liquidity;
9. Operational: Able to understand any documents for loan application, capable of verifying, evaluating all data and capable of providing correct recommendation based on loan proposal from creditor;
10. Information Technology: Capable of designing and implementing Bank Management Information System. Capable of accessing the information system, capable of implementing security system policy, capable of solving problems that occur in the information system;
11. Compliance: Able to understand, identify and analyze regulations related to banking, then able to do fit and proper analysis on the regulations;
12. Internal Auditing: Capable of planning, implementing, supervising and reporting audit results and monitor follow-up activity;
13. Entrepreneur: Capable of implementing business knowledge into business world.

Learning Outcomes
1. Able to raise public funds, able to classify various existing funds as intended, able to establish fund compensation, provide information service for the community;
2. Able to assess and map the target market, able to select the most potential target market, and capable of marketing all banking product to market target. Capable of giving recommendation about different types of investments that fit customers' needs;

3. Able to identify loan application based on the loan application assessment of retail and non-retail and able to market loan products, able to make loan contracts, and able to maintain the number of consumers;
4. Able to understand and implement liquidity risk, rate interest risk , exchange rate risk , credit risk in allocating funds other than credit, purchase securities and properties. Compliance risk associated with treasury. Operational risks associated with functions and duties of treasurer;
5. Able to design, implement, monitor and control human resource in banking sector. Able to do need analysis for human resource. Able to assess employees' performance based on the existing standards, proposed reward and punishment based on the performance. Able to train and develop employees;
6. Able to read and interpret balance sheet of assets and liabilities of bank, capable to plan financial programs based on the prevailing assumptions, capable of implementing financial program and controlling it;
7. Know and understand the different types of financial and banking risk, capable of identifying and predicting the risk, capable of monitor the progress of the risks and capable of controlling various inherent risks based on prudence principles of a bank;
8. Able to make debtor's financial profile based on data and information identification, capable of providing consultation service in determining appropriate type of investments, portfolio and risk profile, capable of performing time value of money calculation for the debtor, able to provide advisory services on debt and liquidity;
9. Able to understand any documents for credit application, capable of verifying, evaluating all data and capable of providing correct recommendation based on loan proposal from creditor;
10. Able to design and use banking management information system. Capable of accessing the information system, capable of implementing system of security policy, capable of solving problems that occur in the information system;
11. Able to understand, identify and analyze regulations related to banking, then able to do fit and proper analysis on the regulations;
12. Able to plan, implement, supervise and report audit result and monitor follow-up activity;

13. Able to implement business knowledge into business world.

Graduates' Competences

Master thirteen (13) competences in finance and banking sectors as well as entrepreneurship.

Training Service

1. Business Plan
2. Small Business Management
3. Office Management
4. Financial Management
5. Financial or non-financial managers
6. Marketing Management
7. Business Feasibility Study
8. Consumer Satisfaction Study
9. Taxation (Income Tax)
10. Entrepreneurship
11. MYOB
12. Auditing
13. Service Excellence
14. Salesmanship

Facilities

1. Fully air-conditioned and Multimedia classrooms
2. Mini Bank
3. Management Laboratory
4. Multimedia Laboratory
5. HotSpot Area with 60 Mbps bandwidth
6. Video Teleconference
7. E-library (Digital Library)
8. ICT-based Academic Information System (Sisfo Polsri)
9. E-Journal
10. E-learning

INFORMATICS MANAGEMENT

INFORMATICS MANAGEMENT STUDY PROGRAM

Introduction

The Indonesian government needs new efforts to restore economic condition. One of the efforts is shifting national economic priority from resource-based economy to knowledge-based economy. This shifting makes science and technology become very important in supporting Long-term Development Vision (LTDV) Year 2005-2025-" Developed, Independent, and Just Indonesia". To response this, many organizations have evolved to dynamic network. In a dynamic network organization, the role of Information Technology is very important.

The development of business and industry at this time will greatly affect the use of technology. The use of appropriate technology will produce faster, precise and appropriate information and more effective communication.

This condition will greatly influence the number of human resources who master current technology. Informatics Management covers concept to scientific development in programming and design.

Professional competence in science can be divided into 3 parts:

1. The ability to design and program appropriate application;
2. The ability to think or plan computerized process approach by using computer as the media for data human resources and network;
3. The ability to develop up to date application for better performance.

These comprehensive basics allow graduates to adapt concepts or ideas of new technologies. Present computerized era causes companies to employ more programming experts.

Informatics Management (DIV) study program prepares professional for IT. For this, Informatics Management Study Program utilizes competency-based curriculum.

Informatics Management is the combination of computer science and management by making the most of computer technology through logical processes. The focus of Informatics Management is computer programming, software for various applications in business, multimedia and graphics.

Computer and Information Science Curriculum in Indonesia is adapted from Computing Curricula. Computing Curricula guidelines for curriculum development in the field of computers is organized jointly by several international organizations in the field of computers such as AIS (the Association for Information Systems), ACM (the Association for Computing Machinery) and the IEEE-CS (the IEEE Computer Society). This curriculum provides guidance on the naming of courses and curricula along with the weighting in five majors, namely: Computer Engineering (CE, Computer Engineering), Computer Science (CS, Computer Science), Information Systems (IS, Information Systems), Information Technology (IT, Information

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Technology), and Software Engineering (SE, Software Engineering). In general in Indonesia, Department of Informatics Management is in Information Systems (Information Systems) group.

Department of Information Systems or Informatics Management (IS, Information Systems) produces graduates who are capable of analyzing the needs (requirements) and business processes (business process), as well as the design of information systems based on the goals of the organization.

Vision

Toward a leading vocational study program in information systems which produces smart, religious, qualified, noble, professional human resources who can compete in globalization era.

Mission

1. Organizing and continuously improving national and international standard vocational education in information technology;
2. Developing organization and improving the quality of resource management in Informatics Management Study Program to achieve effective, efficient and sustainable performances;
3. Increasing knowledge and skills based on competencies required;
4. Promoting research, teaching and community service in information systems;
5. Producing competitive, religious, good morale and characterized professional experts in information systems;
6. Producing experts who are able to be entrepreneurs in information systems.

Purposes

To produce skillful professionals who have good science and technology mastery in data transformation technology through computer as the media.

Targets

1. At least 80% of lecturers write textbook in 2015
2. Minimum GPA in 2016 is 3.0
3. Minimum TOEIC score in 2015 is 380
4. At least 70% of Alumni in 2018 have ≤ 6 month waiting period for first job.

5. At least 5 titles of lecturer's innovative research per year
6. At least 5 community service programs per year.

Strategies to achieve targets

Strategies to Achieve Target 1
1. Plan and compile material for each subject based on the development of industry;
2. Supervise the process of textbook compilation.

Strategies to Achieve Target 2
1. Plan and compile material for textbook based on the development of industry;
2. Supervise teaching and learning process;
3. Upgrade the teaching and learning method and media.

Strategies to Achieve Target 3
1. Set TOEIC in first semester, assign English subject for four semesters, and set TOEIC in sixth semester;
2. Motivate students to improve their English ability.

Strategies to Achieve Target 4
1. Cooperate with industries;
2. Communicate intensely with alumni who have already worked;
3. Organize briefing for all alumni candidates.

Strategies to Achieve Target 5
1. Cooperate with related parties for doing research;
2. Provide training for lecturers about research method;
3. Invite guest lecturers.

Strategies to Achieve Target 6
1. Cooperate with related parties for conducting community service;
2. Provide training for lecturers about community service.

Graduates' Profile

The result of the educational process in Informatics Management (DIV) Study Program is expected to produce religious, responsible, honest, virtuous, noble, and highly motivated graduates who understand and master the approach, methods, scientific principles and skills and their application in solving problems related to informatics management. Graduates must be able to work as programmers and experts in graphic design and multimedia, uphold professionalism, have critical thinking, be systemic, appreciate personal and other

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people work, speak and behave wisely, be sensitive and responsive to problems in information technology and be able to cooperate with cross-disciplinary individuals in conducting community-based planning.

Learning Outcomes

Based on data survey from several districts/cities in South Sumatra and the results of tracer study, the qualification of Informatics Management graduates are as follows:

a. Able to use computer software for operating system, language programming and program applications for business data processing (such as geographic information systems, graphics, and multimedia).
b. Able to translate logic sequence into program application.
c. Able to use business application programs.
d. Able to design and create a business application program.
e. Able to design and create web business application program that can be displayed in a web form.
f. Able to design and create animation program used in web business application program.
g. Able to design and create a database application for web business applications.
h. Able to design and create an e-business application program.
i. Able to design and build computer network with computer security system base.
j. Able to apply management information system in order to obtain a reliable business information system.
k. Able to start a new business in Informatics either independently or in groups.
l. Able to be a leader in electronic data processing.

Graduates' Competences

Informatics Management Graduates' Competences are as follows:

A. Management
1. Able to initiate brilliant ideas;
2. Able to manage managerial tasks;
3. Able to manage financial tasks.

B. Information Systems (IS)
1. Able to utilize and adapt to the information systems;
2. Able to be responsible for personal work;
3. Able to take appropriate decision based on information and data analysis, and able to provide guidance in selecting the various alternative solutions independently.

C. Information Systems Based Administration
1. Able to use applications for office information systems;
2. Able to be responsible for personal work;
3. Able to take right decisions based on information and data analysis, and able to provide guidance in selecting various alternative solutions independently.

D. Multimedia Designer
1. Able to utilize multimedia applications;
2. Able to implement multimedia application in Business.

E. Information Systems Analyst
Able to analyze and design information systems.

F. Programming
Able to design business programs.

Training Services
1. Web Design Training
2. Web Programming Training
3. Geographical Positioning System (GPS) Training
4. SPSS Training
5. Microsoft Office Training
6. Multimedia Training
7. Graphic Design Training

Facilities
1. Multimedia and fully air conditioned classroom.
2. Networking and Web Design Laboratory.
3. Programming Laboratory.
4. Information System and Data Base Laboratory.
5. Geographic Information Systems Laboratory.
6. Data Processing Laboratory.
7. Multimedia and Computer Graphic Laboratory.
8. Operating Systems Laboratory.
9. Hotspot Area with 120 Mbps bandwidth
10. Video Teleconference.
11. E-library (Digital Library).
12. ICT based Academic Information System.
13. E-Journal.
14. E-learning.

APPLIED SCIENCE BACHELOR (D IV) PROGRAMS

PHOTO GALLERY