Information Systems Audit

Introduction

IS/IT is essential to manage transactions, information, and knowledge necessary to initiate and sustain economic and social activities. These activities increasingly rely on globally cooperating entities to be successful. In many organizations, IS/IT is fundamental to support, sustain and grow the business. While many organizations recognize the potential benefits that technology can yield, the successful ones also understand and manage the risks associated with implementing new technologies.

Therefore, in many organizations especially in an accounting firm as an external auditor and IT-dependent company such as banking, telecommunication and oil and gas- as internal IS Auditor, the demand of Information System (IS) Auditor are growing every year. So that, BINUS UNIVERSITY offering ISA Program to fulfill the demand of IS Auditor and preparing knowledgeable fresh graduate.

Vision

World class program in Information Systems Audit to pursuit the innovation and enterprise in IT auditing and Assurance.

Mission

The mission of Information Systems Audit Program is to contribute to the global community through the provision of world-class education by:

1. Educating students with fundamental knowledge and skills in Information Systems Audit, IT management, information system development to become professional IT based auditor or practices consultant and prepare them for continuing for advanced degrees;
2. Conducting professional services in information systems audit based on national or international standards with an emphasis on application of knowledge to the society;
3. Recognizing and rewarding the most talented graduated by promoting them in global industry;
4. Improving the quality of life in Indonesia and international community through sharing information systems audit knowledge to society;
5. Conducting intensive applied research activities in information systems audit and collaboration with global industries.

Program Objective

The objectives of the program are:

1. To provide student with a solid foundation of IT management and IS development ranging from fundamental principles to applied skills and ability in IT Service Delivery and Support, System and infrastructure life cycle management they will need in IS professional career;
2. To provide student with a solid foundation of information systems based audit ranging from fundamental principles to applied skills and ability in IS Risk Management, IT Governance, and protection of information assets they will need in IS audit professional career.

Student Outcomes

After completing the study, graduates are:

1. Able to identify and formulate the root cause of system performance information through data analysis and information on business processes;
2. Able to identify the needs of the database for building information systems;
3. Able to design, create and manipulate and implement computer-based information systems through the study of information systems to develop a strategic plan organizations;
4. Able to design, create, manipulate and implement computer based information system for new business model;
5. Able to communicate alternative solutions development and implementation of information systems based on theory either independently or in groups in writing, designing, and prototyping;
6. Able of identifying and tracking the utilization and use of information systems and Information & Communication Technology is based on the principles of governance;
7. Able to use various accepted information systems audit standard or best practice for IS/IT Audit;
8. Able to examine business continuity and analyze disaster recovery plan.

Prospective Career of the Graduates

After graduating from Information Systems Audit Program, students can have career as:

- Internal IS/IT Auditor
- IS Security Consultant
- IS Risk Management and Assurance Advisor
- Forensic Analyst
- External IS/IT Auditor
- Systems Analyst
- Systems Designer
- Business Process Analyst
- Business Start Up Leader

Curriculum

Information Systems Audit curriculum has developed according to ACM–Information Systems Curriculum combined with ISACA Model Curriculum for IS Audit and Control. According to ISACA Model Curriculum for IS audit and control, the topics covered by model area consist of six content domains which are the IS audit process domain, IT Governance domain, system and infrastructure lifecycle management domain, IT service delivery and support domain, protection of information asset domain, and business continuity and disaster recovery domain. The following is the overview framework of ISACA Curriculum.

Course Structure

Sem	Code	Course Name	SCU	Total
1	ACCT6133	Introduction to Financial Accounting	4	20
	ISYS6186	Business Process Fundamental*	4	
	ISYS6093	Information System Concept*	4	
	STAT6081	Statistics	2	
	COMP6178	Introduction to Programming	2/2	
	English University Courses I			
	ENGL6128	English in Focus	2	
	ENGL6130	English for Business Presentation	2	
2	CHAR6013	Character Building: Pancasila	2	21
	ISYS6123	Introduction to Database Systems*	2/2	
	ISYS6188	Information Systems Analysis and Design	2/2	
	ISYS6189	Management Information System*	4	
	ISYS6197	Business Application Development	2/2	
	LANG6061	Indonesian	1	
	English University Courses II			
	ENGL6129	English Savvy	2	
	ENGL6131	English for Written Business Communication	2	
3	CHAR6014	Character Building: Kewarganegaraan	2	22
	ENTR6003	Entrepreneurship I	2	
	ISYS6205	Enterprise Architecture	4	
	ISYS6264	Testing and System Implementation*	4	
	ISYS6126	Enterprise System*	4	
	STAT6021	Research Methodology	2	
	ISYS6198	Data and Information Management	4	
4	CHAR6015	Character Building: Agama	2	24
	ISYS6151	Information System Security	4	
	ISYS6403	Computer Assisted Audit Tools & Techniques I	2	
	ISYS6340	Information System Investigation**	4	
	ISYS6341	Information System Audit	4	
	ISYS6256	Information Systems Project Management*	4	
	ISYS6206	IS Strategy, Management & Acquisition	4	
5	ENTR6004	Entrepreneurship II	2	22
	ISYS6342	Information System Control	4	
	ISYS6343	Information System Quality Assurance	4	
	ISYS6353	IT Governance**	4	
	ISYS6266	Business Continuity and Disaster Recovery	2	
	ISYS6404	Computer Assisted Audit Tools & Techniques II	2	
	ISYS7052	IS Risk Management*	4	
6	**Enrichment Program I**		15	15
7	**Enrichment Program II**		16	16
8	ISYS6056	Thesis	6	6
			TOTAL CREDIT 146 SCU	

*) This course is delivered in English

**) Entrepreneurship Embedded

English University Courses:

-) *For 1st Semester: English University Courses I, student with score BINUS UNIVERSITY English Proficiency Test less than 500 will take English in Focus, and student with score test greater than or equal to 500 will take English for Business Presentation*

-) *For 2nd Semester: English University Courses II, student with score BINUS UNIVERSITY English Proficiency Test less than 500 will take English Savvy, and student with score test greater than or equal to 500 will take English for Written Business Communication*

Enrichment Program I (6th Semester) & Enrichment Program II (7th Semester):

-) *Student will take one of enrichment program tracks (off campus).*

Enrichment Track Scheme

Track	Semester 6						Semester 7					
	I	RS	ENTR	CD	SA	*etc	I	RS	ENTR	CD	SA	*etc
1			v						v			
2				v			v					
3					v		v					
4		v					v					
5	v						v					
6	v							v				
7	v									v		
8	v										v	

Notes:
I   : Internship
RS   : Research
ENTR   : Entrepreneurship
CD   : Community Development
SA   : Study Abroad
*etc   : Department specific needs

Notes:
Student can choose one of the available tracks

Enrichment Internship Track

Code	Course Name	SCU	Total
Enrichment Program I			
ISYS6207	Industrial Experience	8	15
COMM6227	Business Communication	3	
ISYS6232	Applied Topics in Information Systems Audit	4	
Enrichment Program II			
ISYS6208	Professional Experience	8	16
BUSS6058	Business Ethic	4	
ISYS6233	Advanced Topics in Information Systems Audit	4	

Enrichment Entrepreneurship Track

Code	Course Name	SCU	Total
Enrichment Program I			
ENTR6326	Business Start Up	8	15
ENTR6275	Business Model for Technopreneur	2	
ENTR6282	Launching New Venture for Technopreneur	2	
ENTR6377	EES in New Information Systems Business	3	
Enrichment Program II			
ENTR6354	Growing a Business	8	16
ENTR6283	Lean Startup & Business Plan for Technopreneur	2	
ENTR6284	Venture Capital for Technopreneur	2	
ENTR6365	EES in Information Systems Business Experience	4	

Enrichment Research Track

Code	Course Name	SCU	Total
Enrichment Program I			
RSCH6276	Research Experience	8	15
RSCH6203	Scientific Writing in Information Systems Research	4	
RSCH6296	EES in Information Systems Research	3	
Enrichment Program II			
RSCH6276	Research Experience	8	16
RSCH6203	Scientific Writing in Information Systems Research	4	
RSCH6286	EES in Information Systems Research	4	

Enrichment Community Development Track

Code	Course Name	SCU	Total
Enrichment Program I			
CMDV6157	Community Outreach Project Implementation	8	15
CMDV6040	Community Outreach IS Audit Project Design	4	
CMDV6201	Employability and Entrepreneurial Skills in Information Systems Community	3	
Enrichment Program II			
CMDV6157	Community Outreach Project Implementation	8	16
CMDV6040	Community Outreach IS Audit Project Design	4	
CMDV6116	Employability and Entrepreneurial Skills in Information Systems Community	4	

Enrichment Study Abroad Track

Code	Course Name	SCU	Total
Elective courses list for study abroad*			
Enrichment Program I			
GLOB6005	Elective Course for Study Abroad 1	4	
GLOB6006	Elective Course for Study Abroad 2	4	
GLOB6007	Elective Course for Study Abroad 3	4	
GLOB6008	Elective Course for Study Abroad 4	4	
GLOB6009	Elective Course for Study Abroad 5	2	
GLOB6010	Elective Course for Study Abroad 6	2	
GLOB6011	Elective Course for Study Abroad 7	2	
GLOB6012	Elective Course for Study Abroad 8	2	15
GLOB6013	Elective Course for Study Abroad 9	2	
GLOB6014	Elective Course for Study Abroad 10	2	
GLOB6015	Elective Course for Study Abroad 11	2	
GLOB6016	Elective Course for Study Abroad 12	2	
GLOB6041	Elective Course for Study Abroad 25	3	
GLOB6042	Elective Course for Study Abroad 26	1	
Enrichment Program II			
GLOB6005	Elective Course for Study Abroad 1	4	
GLOB6006	Elective Course for Study Abroad 2	4	
GLOB6007	Elective Course for Study Abroad 3	4	
GLOB6008	Elective Course for Study Abroad 4	4	
GLOB6009	Elective Course for Study Abroad 5	2	
GLOB6010	Elective Course for Study Abroad 6	2	16
GLOB6011	Elective Course for Study Abroad 7	2	
GLOB6012	Elective Course for Study Abroad 8	2	
GLOB6013	Elective Course for Study Abroad 9	2	
GLOB6014	Elective Course for Study Abroad 10	2	
GLOB6015	Elective Course for Study Abroad 11	2	
GLOB6016	Elective Course for Study Abroad 12	2	

*)Transferred courses will be transferred based on credit transfer policies on study program with total of 15 credits for Enrichment Program I and 16 credits for Enrichment Program II.

Student should pass all of these quality controlled courses as listed below:

No	Code	Course Name	Minimum Grade
1.	CHAR6013	Character Building: Pancasila	B
2.	ENTR6004	Entrepreneurship II	C
3.	ISYS6188	Information Systems Analysis and Design*	C
4.	ISYS6126	Enterprise System	C
5.	ISYS6198	Data and Information Management*	C
6.	ISYS6256	Information Systems Project Management	C
7.	ISYS6341	Information System Audit	C
8.	ISYS7052	IS Risk Management*	C

*) Tutorial & Multipaper