

## **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 accounting firm as 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 offer ISA Program to fulfil 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 the fundamental knowledge and skills in Information Systems Audit, IT management, information systems development to become a professional IT auditor or practices consultant and prepare them for continuing for advanced degrees.
2. Conducting professional services which focus on 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 information systems audit sharing 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 Governance, IT Service delivery and Support, System and infrastructure life cycle management they will need in professional career.
2. To provide student with a solid foundation of information systems audit ranging from fundamental principles to applied skills and ability in IT audit process and security they will need in IS audit profession.

### **Graduate Competency**

At the end of the program, graduates will be able to :

1. Illustrate an understanding of Information Systems Framework.
2. Analyze information requirements and business processes.
3. Design systems that are aligned with organizational goals.
4. Demonstrate knowledge necessary to provide information systems (IS) audit services in accordance with IS audit standards, guidelines and best practices to assist the organization in ensuring that its information technology and business resources are protected and controlled.
5. Graduate will be able to demonstrate knowledge of protection information assets, business continuity and disaster recovery, in ensuring confidentiality, integrity, availability of information assets and timely resumption of IT services while minimizing the business impact.
6. Analyze financial and valuation of IS/IT.

### **Prospective Career of the Graduates**

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

- Internal IS/IT Auditor
- IS Risk Management and Assurance Advisor
- External IS/IT Auditor
- IS Security Consultant

### **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		
	<b>English University Courses I</b>				
	ENGL6128	English in Focus	2		
	ENGL6130	English for Business Presentation	2		
2	CHAR6013	Character Building: Pancasila	2	20	
	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		
	<b>English University Courses II</b>				
	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 & Information Management	4		
4	CHAR6015	Character Building: Agama	2	24	
	ISYS6151	Information System Security	4		
	ISYS6216	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 and 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		
	ISYS6339	Computer Assisted Audit Tools & Techniques II	2		
	ISYS7052	IS Risk Management	4		
6	<b>Enrichment Program I</b>		16	16	
7	<b>Enrichment Program II</b>		16	16	
8	ISYS6056	Thesis	6	6	
			<b>TOTAL CREDIT 146 SCU</b>		

\*) *Entrepreneurship Embedded*

**English University Courses:**

- ) For 1<sup>st</sup> 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 2<sup>nd</sup> 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 (6<sup>th</sup> Semester) & Enrichment Program II (7<sup>th</sup> Semester):**

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

**Enrichment Internship Track**

Code	Course Name	SCU	Total
<b>Enrichment I</b>			16
ISYS6207	Industrial Experience	8	
COMM6155	Business Communication	4	
ISYS6232	Applied Topics in Information Systems Audit	4	16
<b>Enrichment II</b>			
ISYS6208	Professional Experience	8	
BUSS6058	Business Ethic	4	16
ISYS6233	Advanced Topics in Information Systems Audit	4	

**Enrichment Entrepreneurship Track**

Code	Course Name	SCU	Total
<b>Enrichment I</b>			16
ENTR6062	Business Start Up	8	
ENTR6145	Business Model for Technopreneur	2	
ENTR6146	Launching New Venture for Technopreneur	2	
ENTR6068	EES in New Business	4	16
<b>Enrichment II</b>			
ENTR6070	Growing a Business	8	
ENTR6147	Lean Start Up & Business Plan for Technopreneur	2	
ENTR6148	Venture Capital for Technopreneur	2	16
ENTR6073	EES in Business Experience	4	

**Enrichment Research Track**

Code	Course Name	SCU	Total
RSCH6037	Research Experience	8	16
RSCH6110	Scientific Writing in Information Systems Research	4	
RSCH6039	Global EES	4	

### Enrichment Community Development Track

Code	Course Name	SCU	Total
CMDV6001	Community Outreach Project Implementation	8	16
CMDV6040	Community Outreach IS Audit Project Design	4	
CMDV6003	Employability and Entrepreneurial Skills	4	

### Enrichment Study Abroad Track\*

Course Name	SCU	Total
GLOB6005	Elective Course for Study Abroad 1	16
GLOB6006	Elective Course for Study Abroad 2	
GLOB6007	Elective Course for Study Abroad 3	
GLOB6008	Elective Course for Study Abroad 4	
GLOB6009	Elective Course for Study Abroad 5	
GLOB6010	Elective Course for Study Abroad 6	
GLOB6011	Elective Course for Study Abroad 7	
GLOB6012	Elective Course for Study Abroad 8	
GLOB6013	Elective Course for Study Abroad 9	
GLOB6014	Elective Course for Study Abroad 10	
GLOB6015	Elective Course for Study Abroad 11	
GLOB6016	Elective Course for Study Abroad 12	

\*) Transferred courses will be transferred based on credit transfer policies on study program with total of 16 credits.

### 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	ISYS6126	Enterprise System	C
4	ISYS6188	Information Systems Analysis and Design*	C
5	ISYS6198	Data & Information Management*	C
6	ISYS6256	Information Systems Project Management	C
7	ISYS6341	Information System Audit	C
8	ISYS7052	IS Risk Management*	C

\*) Tutorial & Multipaper