

M.Sc.IT
& M.Sc.BIS

Curriculum Structure

MSc.IT วิชา/กิจกรรม	แผน ก	แผน ข		
		ข1	ข2	ข3
		Project 6 credits	2 Workshops	Project 3 credits
บังคับ	12 (4 วิชา)	12 (4 วิชา)	12 (4 วิชา)	12 (4 วิชา)
เลือก	12 (4 วิชา)	18 (6 วิชา)	18 (6 วิชา)	21 (7 วิชา)
Thesis/Project	12	6	3+3	3
English Req.	Y	Y	Y	Y
Exit Exam.	VIVA	Compre.	Compre.	Compre.
Doc.	Thesis	Report 6 Credits	Cert. 2 Workshop	Report 3 Credits
Paper	Ext.	SIT or Ext.	SIT	SIT

Study Plan M.Sc.IT

Thesis

Core
at least

x4

from **6**



Selective

x3

from **N**



Research
Methodology



Thesis

Workshop & Project

Core
at least

x4

from **6**



Selective

x6

from **N**



Workshop

x2

or

Workshop

x1

or

Research
Methodology



Project
3 Credits

Project
6 Credits

Network/Information Systems Manager

Job Description

Supervise the work of administrators, engineers, technicians, and/or programmers. Network/Information Systems Managers also focus on longer-range planning and strategy considerations.

Courses

- INT 601 Enterprise Computing Platforms
- INT 603 Management Information System
- INT 604 Database Management System
- INT 605 Systems Analysis and Design
- INT 606 Networking

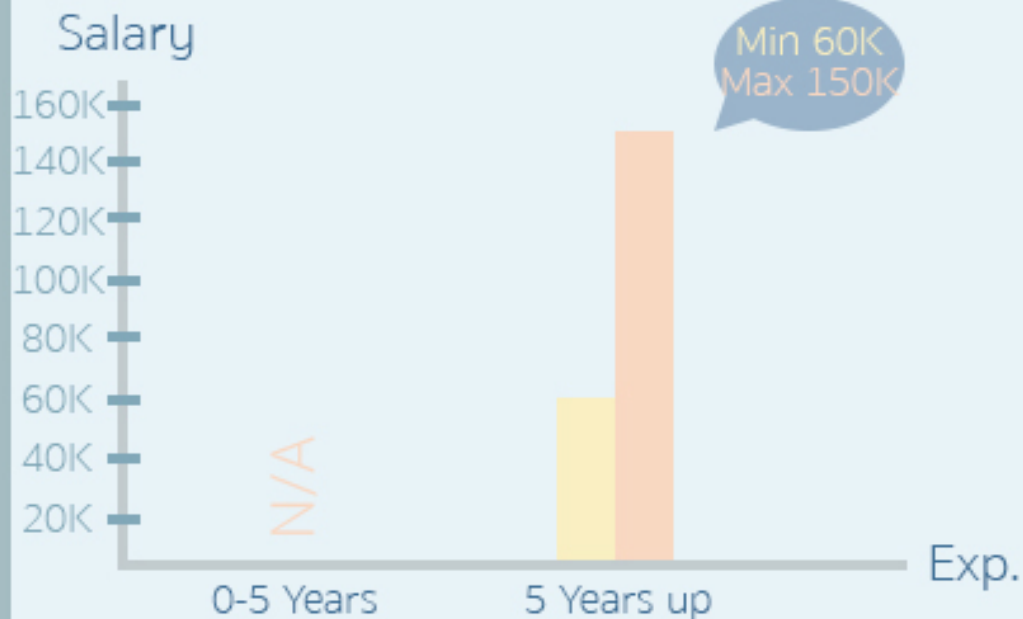
- INT 650 Information Technology Security
- INT 651 Telecommunication Technology
- INT 652 Internet Engineering

Thesis

or

Selective Course **x2**
Project **x1**

Selective Course **x2**
Network Workshop **x1**
or Management Workshop **x1**



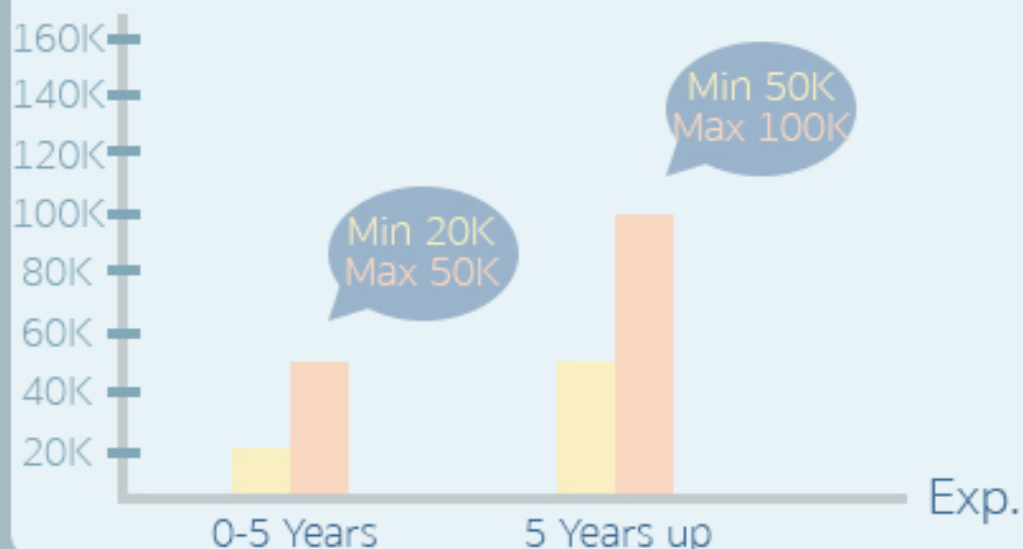
Data Warehouse Consultant / Business Intelligence

Job Description

Develop database architecture, extract data, and prepare reports for the executive level of the company. Must have good knowledge of databases, data warehouse and data mining.

Responsibilities assist system and data analysis team in all Data Quality Management activities. Design data quality processes and resolve all resource efficiency issues. Prepare all functional and technical specification documents for developers. Prepare designs and manage customer data load. Coordinate with cross functional team and execute all project deployments. Plan and design technical architecture to integrate various data warehouse plans.

Salary



Courses

INT 602 Design and Analysis of Algorithm

INT 603 Management Information System

INT 604 Database Management System

INT 605 Systems Analysis and Design

INT 630 Database Technology

INT 638 Data Mining

INT 670 Database Programming Workshop

INT 672 Data Warehouse Workshop

Thesis

or

Selective Course **x2**
Project **x1**

Selective
Course

x2

Database
Workshop

x2

It Project Manager

Job Description

Responsibility manage project and responsible for budget controlling work plans and all Project Management Procedures.

Daily activity monitor the project progress against the schedule and budget, Resources Management, Sponsors Negotiation

Other Activity contract management, financial analysis and control.

Courses

INT 601 Enterprise Computing Platforms

INT 603 Management Information System

INT 604 Database Management System

INT 605 Systems Analysis and Design

INT 611 Financial Strategies for Information Technology

INT 615 Information Quality Management

INT 616 Enterprise Resource Planning

INT 639 Information System Metrics

INT 641 Information Technology Control and Audits

Thesis

or

Selective Course **x2**
Project **x1**

"INT677"

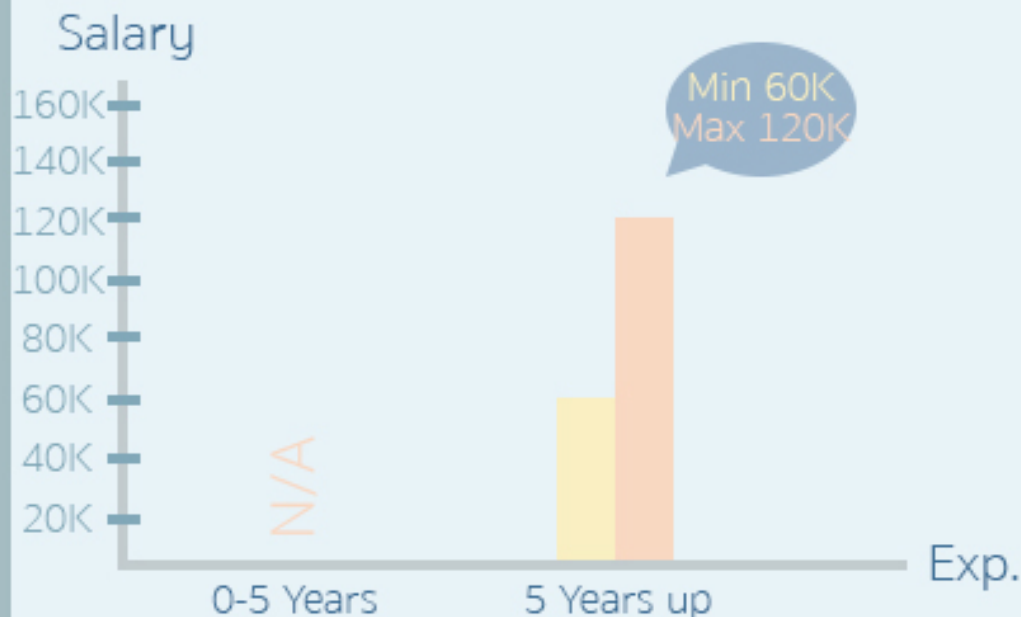
x1

Selective Course **x1**

or

Software Workshop **x1**

x1



Network (Systems) Engineer

Job Description

Focus more on the setup, troubleshooting, and repair of specific hardware and software products

Technicians in particular often must travel to remote customer sites to perform "field" upgrades and support, focus primarily on system upgrades, evaluating vendor products, security testing, and so on

Courses

- INT 601 Enterprise Computing Platforms
- INT 602 Design and Analysis of Algorithms
- INT 604 Database Management System
- INT 606 Networking

- INT 640 XML Technology
- INT 650 Information Technology Security
- INT 651 Telecommunication Technology
- INT 652 Internet Engineering

Thesis

or

Selective Course **x2**
Project **x1**

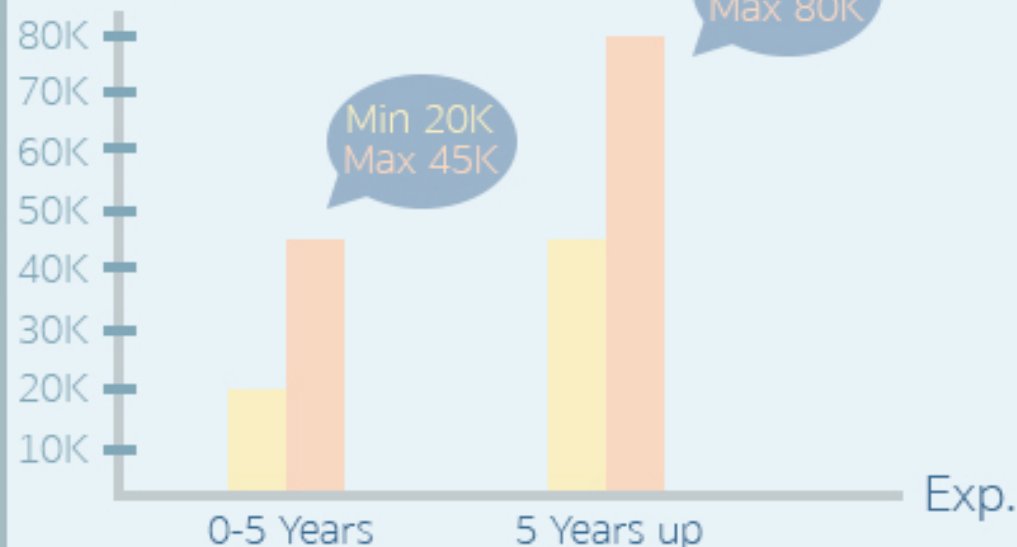
Selective
Course

x2

Network
Workshop

x2

Salary



Network Programmer/Analyst

Job Description

Generally write software programs or scripts that aid in network analysis, such as diagnostics or monitoring utilities. They also specialize in evaluating third-party products and integrating new software technologies into an existing network environment or to build a new environment.

Courses

- INT 601 Enterprise Computing Platforms
- INT 602 Design and Analysis of Algorithms
- INT 604 Database Management System
- INT 605 Systems Analysis and Design
- INT 606 Networking
- INT 640 XML Technology
- INT 652 Internet Engineering
- INT 653 Mobile Application

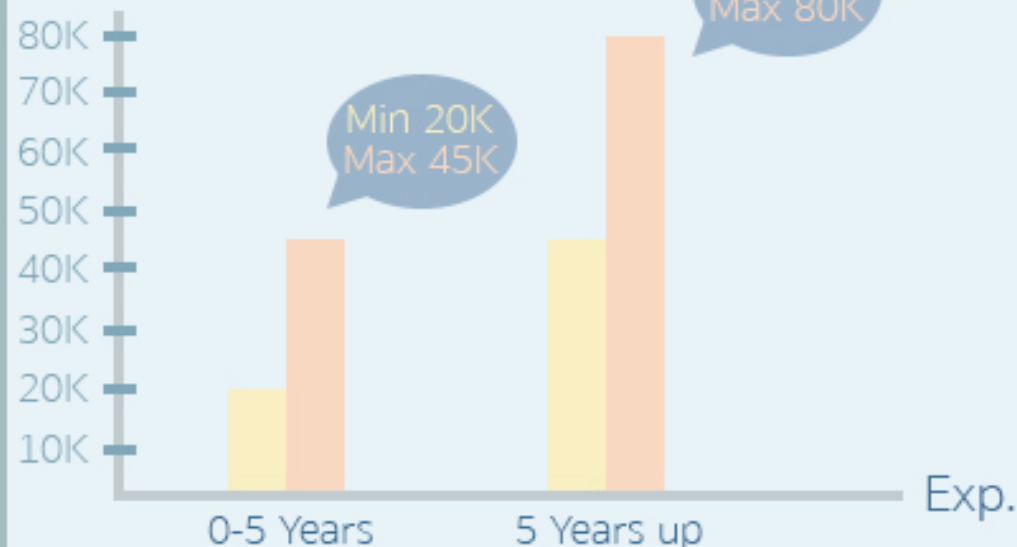
Thesis

or

Selective Course **x2**
Project **x1**

Selective Course **x1**
Network Workshop **x1**
or
Software Workshop **x1**

Salary



Network Administrator

Job Description

Responsibility analysis, installation and configuration of company networks

Daily activities monitoring network performance, troubleshooting problems and maintaining network security

Other activities include assisting customers with operating systems and network adapters, configuring routers, switches, and firewalls, and evaluating third-party tools

Courses

- INT 601 Enterprise Computing Platforms
- INT 602 Design and Analysis of Algorithms
- INT 604 Database Management System
- INT 605 Systems Analysis and Design
- INT 606 Networking

- INT 650 Information Technology Security
- INT 651 Telecommunication Technology
- INT 652 Internet Engineering

Thesis

or

Selective Course **x2**
Project **x1**

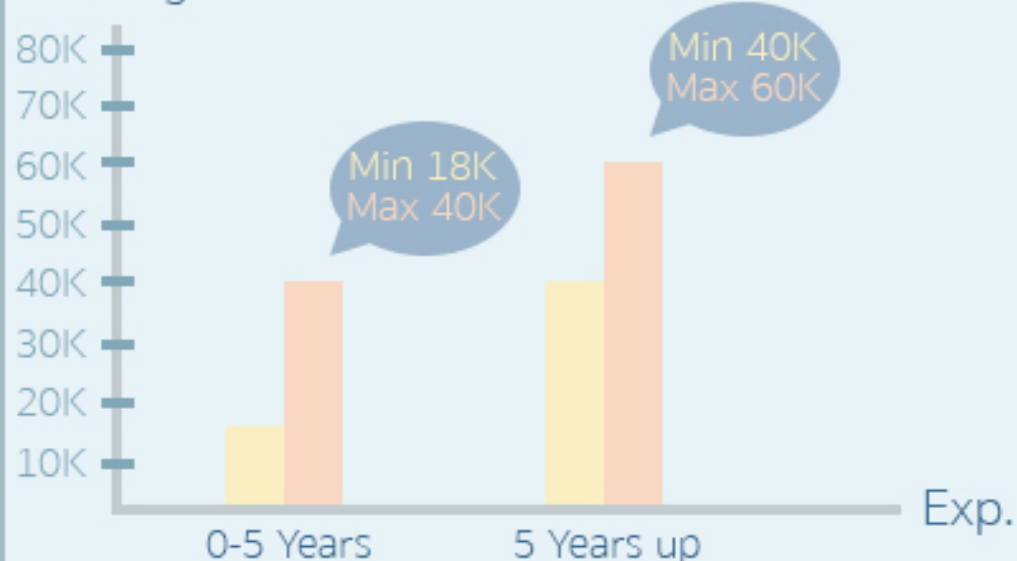
Selective Course

x2

Network Workshop

x2

Salary



It Application Support

Job Description

Responsibility Deliver support to end users about how to use various types of software programs efficiently and effectively in fulfilling business objectives. This includes troubleshooting applications and software for all internal customers, such as operations, development and other business units. Responsible for assisting in the design, delivery, and improvement of in-house software applications training programs and related courseware

Daily Activity Support the user and coordinate with the administrator and software development teams to solve the application system problems

Other Activity Coordinate between the sub-contractor and supplier and internal users

Courses

INT 601 Enterprise Computing Platforms

INT 602 Design and Analysis of Algorithm

INT 604 Database Management System

INT 605 Systems Analysis and Design

INT 606 Networking

INT 613 Information Security Management

INT 630 Database Technology

INT 631 Object-Oriented Technology

INT 651 Telecommunication Technology

Thesis

or

Selective Course **x1**
Project **x1**

"INT677"

x1

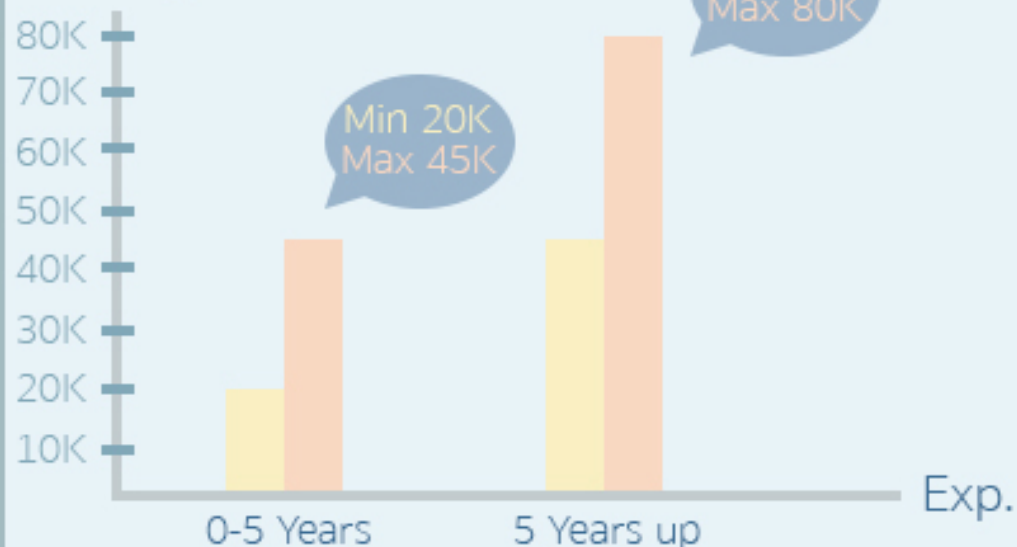
Selective Course **x1**

or

Software
Workshop

x1

Salary



Database Administrator

Job Description

Administrate and monitor database server to maintain the reliability.

Responsibilities and Duties Designing, implementing, and maintaining the database system; establishing policies and procedures pertaining to the management, security, maintenance, and use of the database management system; and training employees in database management and use.

Courses

- INT 601 Enterprise Computing Platforms
- INT 602 Design and Analysis of Algorithm
- INT 604 Database Management System
- INT 605 Systems Analysis and Design

- INT 630 Database Technology
- INT 641 Information Technology Control and Audit
- INT 650 Information Technology Security
- INT 670 Database Programming Workshop
- INT 671 Database Architecture and Administration Workshop

Thesis

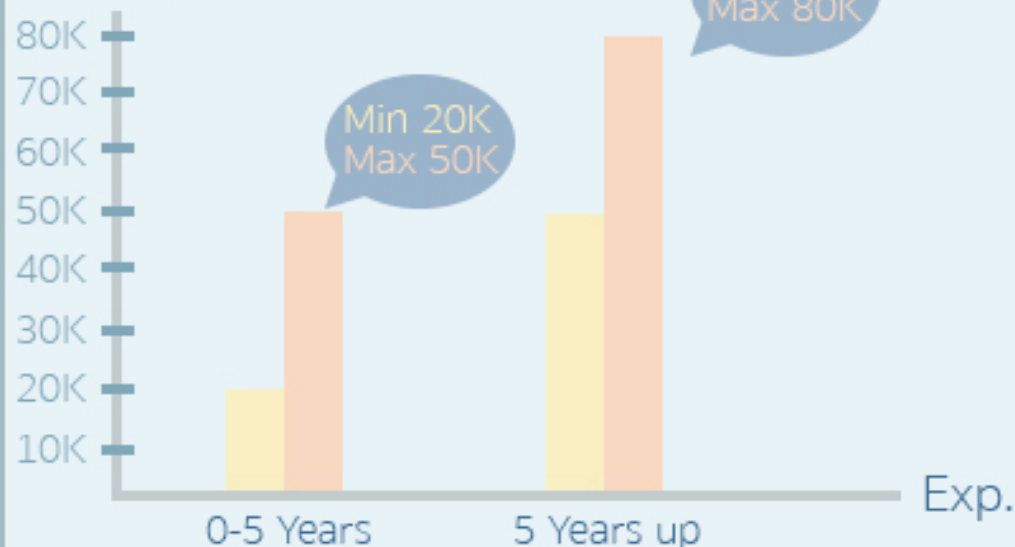
or

Selective Course x1
Project x1

or

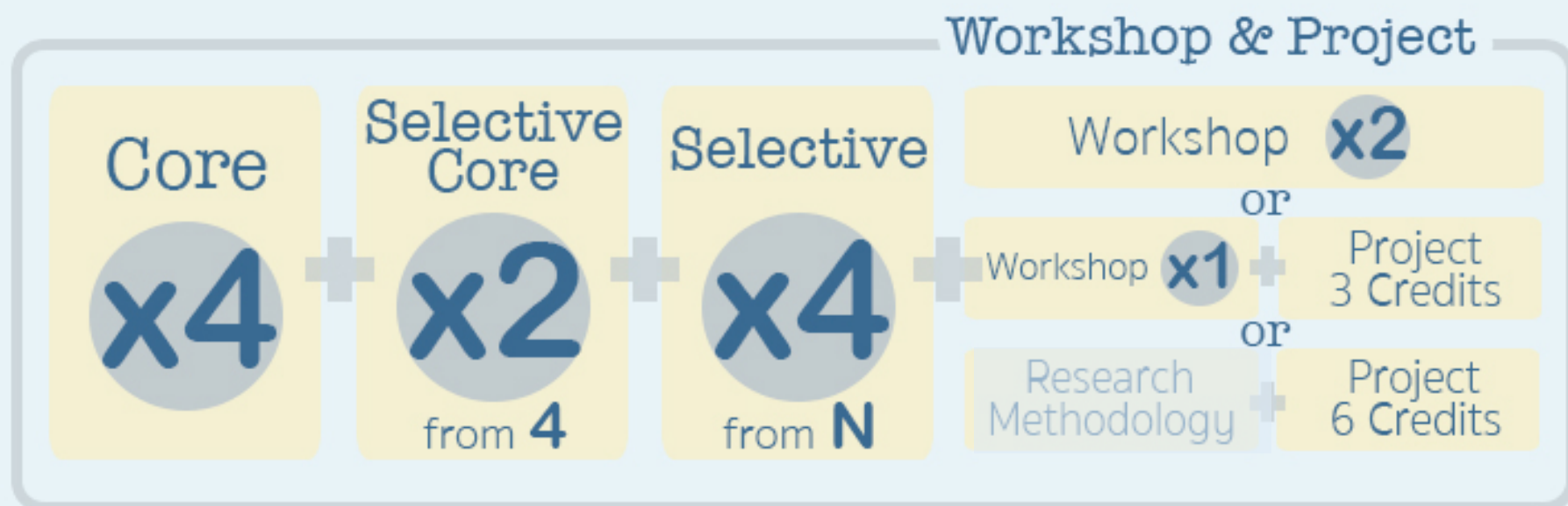
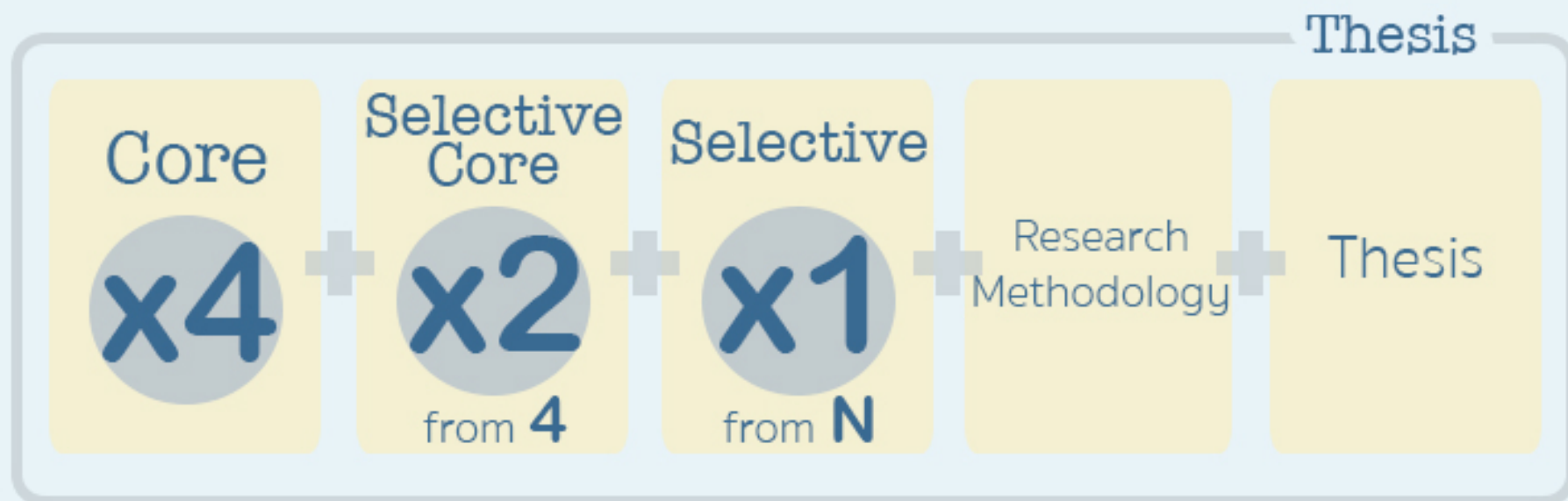
Selective Course x1
Database Workshop x2

Salary



MSc.BIS		แผน ก (วิทยานิพนธ์)		แผน ข1 (โครงการ BIS 6 หน่วยกิต)		แผน ข2 (สัมมนาเชิงปฏิบัติการ / โครงการเฉพาะเรื่อง)			
ปีการศึกษาที่ 1		รายวิชา	จำนวน หน่วยกิต	รายวิชา	จำนวน หน่วยกิต	รายวิชา	จำนวน หน่วยกิต		
ภาคการศึกษาที่ 1	2 วิชาบังคับ		6	2 วิชาบังคับ		6	2 วิชาบังคับ		6
	1 วิชาเลือก(บังคับ)		3	1 วิชาเลือก(บังคับ)		3	1 วิชาเลือก(บังคับ)		3
ภาคการศึกษาที่ 2	2 วิชาบังคับ		6	2 วิชาบังคับ		6	2 วิชาบังคับ		6
	BIS 702 ระเบียบวิธีวิจัย*		3	1 วิชาเลือก(บังคับ)		3	1 วิชาเลือก(บังคับ)		3
รวมหน่วยกิตในปีการศึกษาที่ 1			18			18			18
ปีการศึกษาที่ 2									
ภาคการศึกษาที่ 1	2 วิชาเลือก**		6	2 วิชาเลือก		6	2 วิชาเลือก		6
	วิทยานิพนธ์		3	โครงการ BIS		3	สัมมนาฯ 1		3
ภาคการศึกษาที่ 2	วิทยานิพนธ์		9	2 วิชาเลือก		6	2 วิชาเลือก		6
							สัมมนาฯ 2 หรือ โครงการเฉพาะ		3
รวมหน่วยกิตในปีการศึกษาที่ 2			18			18			18
รวมหน่วยกิตทั้งหมด			36			36			36
*หรือวิชาเลือกอื่นตามที่กรรมการหลักสูตรเห็นชอบ									
**กรณีที่เรียน BIS702 ในภาคการศึกษาที่สอง ให้ลงวิชาเลือกบังคับ 1 วิชา หรือ ตามที่กรรมการหลักสูตรเห็นชอบ									

Study Plan M.Sc.BIS



คำแนะนำการกำหนดแผนการเรียน

M.Sc.
BIS

- 1 e-Business system consulting
- 2 e-Business analysis and system development
- 3 e-Business system and IT project management
- 4 e-Entrepreneurship

สามารถดาวน์โหลดเอกสารแนะนำหลักสูตร BIS ฉบับเต็มได้ที่ <https://www4.sit.kmutt.ac.th/student/curriculum-bis>

Thank you
Q&A