

DIPLOMA IN
INFORMATION
TECHNOLOGY
AND
COMMUNICATION
(COMPUTER
NETWORKING)

SYLLABUS

IT-030-3:2013(COMPUTER NETWORK
SERVICES)

IT-030-4:2013(COMPUTER NETWORK
ADMINISTRATION)

SEMESTER 1



**KOLEJ SYNERGY
(SEMESTER 1)**

CODE	CODE NAME	CREDIT HOUR
NKS101	COMPUTER SYSTEM SET-UP	12

MODULE OBJECTIVE

This module covers knowledge and skill to assemble computer hardware, computer peripheral and installs the software and make the computer ready to be used

LEARNING OUTCOME

- Analyse job request/change order
- Prepare computer set-up tools, computer hardware parts and computer software
- Set-up computer hardware
- Carry out computer software installation
- Set-up computer peripherals
- Carry out unit functionality test
- Prepare computer system set-up report



**KOLEJ SYNERGY
(SEMESTER 1)**

CODE	CODE NAME	CREDIT HOUR
NKS102	SERVER INSTALLATION	9

MODULE OBJECTIVE

This module covers knowledge and skill to assemble server hardware and peripheral and install the software in accordance with server installation procedure.

LEARNING OUTCOME

- Analyse job order / change request
- Execute hardware installation
- Carry out software installation
- Perform server functionality test
- Prepare server installation set-up report



**KOLEJ SYNERGY
(SEMESTER 1)**

CODE	CODE NAME	CREDIT HOUR
NKS103	NETWORK CABLE INSTALLATION	9

MODULE OBJECTIVE

This module covers knowledge and skill to conduct site survey, prepare for network cable installation, execute network cable installation and test cable connectivity in accordance with cabling installation procedure and client's requirement.

LEARNING OUTCOME

- Analyse network cabling requirements
- Plan network cable installation
- Carry out network cable installation
- Prepare network cable installation report



**KOLEJ SYNERGY
(SEMESTER 1)**

CODE	CODE NAME	CREDIT HOUR
CAZ0091	COMMUNICATION SKILLS	1

MODULE OBJECTIVE

This course is to enable students to describes the requirement to communicate ideas and information clearly, organizational practices and the importance of culture in communication. In this Core Abilities (CA) shall be able to apply working language appropriately, apply oral communication and speak reasonably and understand reading materials

LEARNING OUTCOME

- Communicate effectively using appropriate language and formats as well as understand organizational practices and intercultural communication.



**KOLEJ SYNERGY
(SEMESTER 1)**

CODE	CODE NAME	CREDIT HOUR
CAZ0092	INTERPERSONAL RELATIONSHIPS	1

MODULE OBJECTIVE

This course is to enable students to describes the requirement to understand the concept of honesty and integrity, punctuality of job delivery and work in a team to complete a basic task. In this Core Abilities (CA) shall be able to demonstrate honesty and integrity, adopt work punctuality and demonstrate team cooperation

LEARNING OUTCOME

- Demonstrate good attitudes, values and behavior in the working environment.

SEMESTER 2



**KOLEJ SYNERGY
(SEMESTER 2)**

CODE	CODE NAME	CREDIT HOUR
NKS201	COMPUTER NETWORK SEP-UP	9

MODULE OBJECTIVE

This module covers knowledge and skill to set-up the linking between server with other peripherals using physical cable to allow users to connect and communicate each other for data and information sharing, sending electronic mail (e-mail), teleconferencing and other purposes.

LEARNING OUTCOME

- Analyse computer network set-up specification
- Carry out network installation
- Test network connectivity
- Produce computer network set-up report



**KOLEJ SYNERGY
(SEMESTER 2)**

CODE	CODE NAME	CREDIT HOUR
NKS202	COMPUTER NETWORK MAINTENANCE	5

MODULE OBJECTIVE

This module covers knowledge and skill to handle preventive and preventive maintenance to both, network hardware and software in accordance with company policy.

LEARNING OUTCOME

- Assess network maintenance job order.
- Carry out preventive maintenance
- Perform corrective maintenance
- Produce computer network maintenance report



**KOLEJ SYNERGY
(SEMESTER 2)**

CODE	CODE NAME	CREDIT HOUR
NKS203	MOBILE DEVICE CONFIGURATION	2

MODULE OBJECTIVE

This module covers knowledge and skill to configure and troubleshoots mobile computer and its devices and prepare safe and sound environment for mobile device to connect with computer system network in accordance with company SOP.

LEARNING OUTCOME

- Analyse job order/ change request
- Carry out mobile device configuration
- Perform mobile device troubleshoot
- Carry out mobile device commissioning



**KOLEJ SYNERGY
(SEMESTER 2)**

CODE	CODE NAME	CREDIT HOUR
CAZ0093	WORKPLACE ETIQUETTE	2

MODULE OBJECTIVE

This course provides students the knowledge on workplace to follow the chain of command, adhere to working guidelines, demonstrate concept of discipline and maintain good social interactions. In this Core Abilities (CA) shall be able to respond to instructions and demonstrate discipline.

LEARNING OUTCOME

- Understand the chain of command and portray good workplace ethics behavior in the working environment.



**KOLEJ SYNERGY
(SEMESTER 2)**

CODE	CODE NAME	CREDIT HOUR
STS	STATISTICS	3

MODULE OBJECTIVE

This course provides students with the basic concepts of data analysis and statistical computing. Topics covered include basic descriptive measures, measures of association, probability theory, confidence intervals, and hypothesis testing. The main objective is to provide students with pragmatic tools for assessing statistical claims and conducting their own statistical analyses

LEARNING OUTCOME

- Demonstrate their understanding of descriptive statistics by practical application of quantitative reasoning and data visualization.
- Demonstrate their knowledge of the basics of inferential statistics by making valid generalizations from sample data.

SEMESTER 3



**KOLEJ SYNERGY
(SEMESTER 3)**

CODE	CODE NAME	CREDIT HOUR
NKS301	SERVER CONFIGURATION	4

MODULE OBJECTIVE

This module covers knowledge and skill to optimise server performance and manage server resources by creating configuration script to arrange server functional units according user's requirement.

LEARNING OUTCOME

- Plan server deployment
- Monitor server installation
- Carry out server configuration
- Produce server configuration report



**KOLEJ SYNERGY
(SEMESTER 3)**

CODE	CODE NAME	CREDIT HOUR
NKS302	SERVER MAINTENANCE ADMINISTRATION	3

MODULE OBJECTIVE

This module covers knowledge and skill to produce excellent condition of server in term of performance and functionality to meet user's requirement.

LEARNING OUTCOME

- Analyse server maintenance requirements
- Plan server maintenance administration
- Administer server maintenance work
- Produce server maintenance administration report



**KOLEJ SYNERGY
(SEMESTER 3)**

CODE	CODE NAME	CREDIT HOUR
NKS303	COMPUTER NETWORK SECURITY DEPLOYMENT	3

MODULE OBJECTIVE

This module covers knowledge and skill to produce a reliable and secure computer network system, as well as confidentiality, integrity and availability of company's data and record according to the company's requirement.

LEARNING OUTCOME

- Analyses computer network security requirement
- Plan computer network security deployment
- Execute computer network security deployment
- Produce computer network security deployment report



**KOLEJ SYNERGY
(SEMESTER 3)**

CODE	CODE NAME	CREDIT HOUR
CAZ0094	HEALTH, SAFETY & ENVIRONMENT MONITORING	2

MODULE OBJECTIVE

This course provides students the knowledge and describes the requirements to identify health awareness program objectives and monitor the HSE program accomplishment.

LEARNING OUTCOME

- To ensure health awareness program, safety awareness program and environmental awareness program.
- To monitor all health, safety and environmental awareness programs.



**KOLEJ SYNERGY
(SEMESTER 3)**

CODE	CODE NAME	CREDIT HOUR
STB	BAHASA MALAYSIA	4

MODULE OBJECTIVE

This course is to enable students to master basic skills on Bahasa Malaysia and competencies communicate and speak to express ideas orally and in writing.

LEARNING OUTCOME

- Knowing the sound system, the system of spelling, vocabulary and grammar of the Bahasa Malaysia
- Can hear and understand speech in a variety of everyday situations.
- Can speak in a variety of everyday situations.
- Can read and understand simple reading materials
- Can generate ideas and orally and in writing

SEMESTER 4



**KOLEJ SYNERGY
(SEMESTER 4)**

CODE	CODE NAME	CREDIT HOUR
NKS401	COMPUTER NETWORK MAINTENANCE MANAGEMENT	3

MODULE OBJECTIVE

This module covers knowledge and skill to manage network that involves corrective and preventive measures to ensure excellent condition of computer network in term of functionality and reliability in accordance with computer network system technical support requirements

LEARNING OUTCOME

- Analyses network maintenance requirement
- Develop computer network maintenance management plan
- Manage computer network maintenance
- Produce computer network maintenance report.



**KOLEJ SYNERGY
(SEMESTER 4)**

CODE	CODE NAME	CREDIT HOUR
NKS402	COMPUTER SYSTEM AND NETWORK PROCUREMENT	2

MODULE OBJECTIVE

This module covers knowledge and skill to provide technical input to purchasing department to expedite the purchasing process and to ensure purchased item fulfil company requirements.

LEARNING OUTCOME

- Analyses computer system and network requirements
- Carry out procurement activities
- Administer computer system and network products/ items receiving
- Report the new products/ items receiving to the related department



**KOLEJ SYNERGY
(SEMESTER 4)**

CODE	CODE NAME	CREDIT HOUR
STE	ENGLISH	4

MODULE OBJECTIVE

This course develops the students' abilities in grammar, oral skills, reading, writing and study skills

LEARNING OUTCOME

- Students will heighten their awareness of correct usage of English grammar in writing and speaking
- Students will improve their speaking ability in English both in terms of fluency and comprehensibility
- Students will give oral presentations and receive feedback on their performance
- Students will increase their reading speed and comprehension of academic articles
- Students will improve their reading fluency skills through extensive reading
- Students will enlarge their vocabulary by keeping a vocabulary journal
- Students will strengthen their ability to write academic papers, essays and summaries using the process approach.



**KOLEJ SYNERGY
(SEMESTER 4)**

CODE	CODE NAME	CREDIT HOUR
NKS406	ON JOB TRAINING	8

MODULE OBJECTIVE

This module covers knowledge and skill Practice / On job training in industry where student need to undergo in plant training for 4 month, to be evaluate by their supervise and write the executive report

LEARNING OUTCOME

- Apply knowledge in a professional setting
- Develop professionally relevant competencies and relationships in a professional setting
- Observe and begin to understand a professional organizational culture
- Evaluate one's own performance in light of one's expressed goals and learning outcomes
- Clarify one's calling through reflection on the internship experience

SEMESTER 5



**KOLEJ SYNERGY
(SEMESTER 5)**

CODE	CODE NAME	CREDIT HOUR
NKS501	FINAL YEAR PROJECT	4

MODULE OBJECTIVE

This module covers knowledge and skill to determine the project name, research, modification, planning analysis and proposal preparation. Process: construct the project, mechanical assembly, write and edit software and troubleshoot. Completion: documentation and presentation.

LEARNING OUTCOME

- Design and plan a project and manage the time involved to complete the project, and related report, within given time constraints.
- Source, read and critically evaluate the primary literature on the chosen topic.
- Demonstrate the ability to work independently and also to recognize the need for, and seek, appropriate academic supervision.
- Formulate and communicate a research problem or aim.
- Identify, justify and use an appropriate methodology in addressing the identified research problem.
- Identify, justify and use an appropriate methodology in addressing the identified research problem.
- Accurately record, interpret and report relevant data in a manner that addresses the research question.