

SCHOOL OF POLITEKNIK BRUNEI WEEKLY MODULE PLAN

REFERENCE NUMBER: PB/AS/LP/002 VERSION: 1.2 REVISION DATE: 06/10/2018 EFFECTIVE DATE: 1/1/2019

MODULE CODE/NAME	NS4307, Network Programming		TOPIC	Introduction to Network Programming Java Binary Input & Output	
SEMESTER	Semester 2, 2021 / 2022		GROUP CODE/INTAKE	DITN12 (Intake 11), DITN10R (Intake 9)	
SCHOOL/DEPT S	School of ICT		WEEK	Week 3 - 06/02 - 12/02	
PEDAGOGICAL APPROACH					
☐ Knowledge Building ✓ Presentation ☐ Co-operative/Collaborative Lear: ☐ Experimental Learnin; ✓ Case Studies ☐ Discussion ✓ Blended Learning ☐ Debate ☐ Others, please specify					
RESOURCES					
Learning management sytem					
LESSON LEARNING OBJECTIVES METHOD OF INSTRUCTION/LEARNING ACTIVITIES REFLECTIVE EVALUATION					
At the end of this lesson, the student					
able to: 1) Review on TCP IP Network Layer 2) Understand and able to apply Java Input & Output	Binary	ecture (Introduction to Network Programming Review on what is networks Review on each component in Layers of Network Review on ach component in Layers of Network Review on Internet Protocol (IP) Review on Item Protocol (IDP) Review on Item Protocol (IDP) Review on IP Addresses Review on IP Addresses Review on Ports Review on Ports Review on Ports Review on Ports Review on Firewalls Review on Internet Address Blocks Review on Internet Address Blocks Review on Firewalls Review on Firewalls Review on Firewalls Review on Proxy Servers ecture (Java Binary Input & Output): 30 minute Review on Proxy Servers ecture (Java Binary Input & Output) in Network Explain the difference between Java Text and Explain the Inheritance tree of Java Binary Input Explain the nethods available in InputStream Explain the details on how to use FileInputStream Explain the closing the stream using traditionary with resources **Exercise** (Quiz): 15 minutes Facilitate students answering quiz in PBLMS for actical (Java Binary Input & Output): 1 hour 15 Facilitate students implementing basic Java Bis Show students difference between the two. Facilitate students how to use FileInputStream Facilitate students how to use FileInputStream Facilitate students implementing basic Java Bis Show students difference between the two. Facilitate students how to use FileInputStream	es Programming context Sinary Input Output ut Output library and OutputStream an and FileOutputStream try and catch statement for Git Remote. Sminutes va Text IO nary IO		No issue in terms of recapping the basic concept of networks. But will emphasis again some of the important concepts related to the practical next week. During lecture and practical, did some questioning if they remember the concepts taught in previous Java modules. Only a few can answer accordingly. It is as expected since if the concepts are not touched in a period of time it takes time to recall back the concept. In this case, I asked about how to create object, what is class, what is instance variables, try and catch, and what to implement if the are repetitive tasks. Spent a brief recap explaining on these concepts as well.
At the end of this lesson, the student able to: 1) Understand and able to apply Java Input & Output	a Binary Le -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	ession 2: ecture: 30 minutes Explain in details on how to use DataInputStre Explain in details on how to use BufferedInput Explain in details on how to use ObjectInput Explain in details on how to use ObjectInput Emphasis on object cannot be stored if the object erializable Interface Explain in details the purpose of Serializable I ractical: 1 hour 30 minutes Facilitate on how to use DataInputStream and Facilitate on how to use ObjectInputStream an Facilitate to inverse to any to be stored if the object erializable Interface ractical (Exercise): 1 hour Facilitate to implement a Java application to m	tStream and BufferedOut tream and ObjectOutput ect class does not implen interface DataOutputStream and BufferedOutputStread d ObjectOutputStream class does not implemen	tputStream Stream nents	Spent an extra 15 minutes during the lecture to explain how objects are stored in the computer memory to emphasis why Java will not duplicate objects when storing into the file using ObjectOutputStream. At the beginning of the practical exercise, had to guide the students again how to connect their Java project to Github. I assume this is due to it has been a week since this was taught. If the students does not practice them, of course they will forget the steps. This tooks 10 minutes and when doing the exercises, some students are unable to complete the exercise by the end of class. Asked them to complete them at home and upload their project to Github.
At the end of this lesson, the student able to:	t should be Se	ession 3:			
NAME & SIGNATURE					
MODULE LECTURER	/	rogramme leader/assistant ho Jamiatal Zukriah	OS (aHOS)/ HEAD OF	SCHOOL	(HOS)*
Jailani Abdul Rahmai	n /	08/02/2023			
DATE:		DATE:			
COMMENTS BY PROGRAMME LEADER/ ASSISTANT HOS (aHOS)/ HEAD OF SCHOOL (HOS) (If any)					
Please focus more on the weak students and keep follow up on their work. This is to make sure they can applied and understand the concept well.					
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