

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	MySQL Java Persistence API		
SEMESTER	Semester 2, 2021 / 2022		GROUP CODE/INTAKE	DITN12 (Intake 11), DITN10R (Intake 9)		
SCHOOL/DEPT	School of ICT		WEEK	Week 11 - 03/04 - 09/04		
PEDAGOGICAL APPROACH						
Knowledge Building Discussion	✓	Presentation Co-operati Blended Learning Debate	ive/Collaborative Lear		Experimental Learning Case Studies 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 should be Session 1:						
able to: 1) Apply Structured Query Languag	e (SQL)	Practical (2 hours): - Show how to implement Primary Key in Datab - Show how to delete and changing Primary Key - Show how to understand basic Entity Relations MySQL. - Show how to implement Foreign Key in Datab - Show how to delete and changing Foreign Key - Show the benefits of using Foreign Key Show how to implement auto increment Emphasis in the lecture notes there are more ad MySQL.	y from Database Table. ship Diagram and imple ase Table. from Database Table.		Finished the lesson 30 minutes before the end, Used the extra time to asked about their assignments. Most of the groups are still in the designing stage. Apparently they focused on other modules' assessments.	
At the end of this lesson, the studen	t should be	Session 2:				
able to: 1) Apply Structured Query Languag		Lecture (1 hour 30 minutes): Define Spring Data JPA Explain how to configure Spring Data JPA to S; Define MySQL connector Explain how to configure MySQL connector to Explain how to configure Spring Application to properties file. Explain how to make POJO to structure data in Define @Entity and @Table annotation. Define @Idd, @GeneratedValue and @NotNull a Show example of POJO that sturture data in da State that it is required to implement a no-arg c Define Data Access Object (DAO) Define CrudRepository interface Explain how to implement the interface in to h State the methods available in DAO: delete, exi Explain how to with explain the method in Explain how to retrieve all entities using DAO Explain how to retrieve one entity using DAO Explain how to retrieve one database Explain remove data from database Explain remove data from database Explain the method in Explain the structure of the	Spring Application. o connect to MySQL dat i database. innotation itabase. constructor in POJO. andle POJO ists, findAll, findOne ar	id save	As expected, there are a lot of error when students install the dependencies for spring jpa and mysql connector. Typical issues are since they are using the school's student internet, since it is not that stable, the installation are halted and it caused error to the whole Spring project. By the end of the class, all issues are solved. Another note, mysql.mysql-connector-java dependency is no longer available. It has been changed to <grouptd>com.mysql</grouptd> cartifactId> mysql-connector-j mysql-connector-j	
At the end of this lesson, the studen able to:	t should be	Session 3:				
NAME & SIGNATURE						
MODULE LECTURER MAN (ALL)	1	PROGRAMME LEADER / ASSISTANT THOS (altros), THEAD OF SCHOOL (1105)				
Jailani Abdul Rahman Jamiatul Zuhriah						
DATE: 13/04/20	23	DATE: 15/04/2023				
COMMENTS BY PROGRAM	COMMENTS BY PROGRAMME LEADER/ ASSISTANT HOS (aHOS)/ HEAD OF SCHOOL (HOS) (If any)					
Alhamdulillah, you managed to solve the issues well. Well done cg.						