Web 开发与应用 教学大纲

Web Application Development Subject Syllabus

一、课程信息 Subject Information

课程编号:	2100212015	开课学期:	6	
Subject ID	3100213015	Semester	6	
课程分类:	土川	所属课群:	去、 此其7地 M C	
Category	专业教育 PA	Section	专业基础 MF	
课程学分:	3	总学时/周:	48/10	
Credit Points	3	Total Hours/Weeks	46/10	
理论学时:	40	实验学时:	8	
LECT. Hours	40	EXP. Hours	0	
PBL 学时:	0	实践学时/周:	4	
PBL Hours	U	PRAC. Hours/Weeks	4	
开课学院: College	东北大学 悉尼智能科技学院 Sydney Smart Technology College Northeastern University	适用专业: Stream	CST/CE	
课程属性:	Omversity	课程模式:		
Pattern	选修 Elective	Mode	互认 EQV	
中方课程协调人:	王军伟	成绩记载方式:		
NEU Coordinator	Wan Junwei	Result Type	百分制 Marks	
先修课程:				
Requisites		无 none		
英文参考教材: EN Textbooks	Web Application Development: Basic Concepts. Greg Heileman			
中文参考教材: CN Textbooks	JSP 实用教程(第四版	反),清华大学出版社,	2020	
教学资源: Resources	http://www.tup.com.cn/upload/books/kj/087694-01.rar			
课程负责人(撰写人):		提交日期:	2/27/2023	
Subject Director		Submitted Date	212112023	
任课教师(含负责人):		王军伟 戴庆天		
Taught by		Wan Junwei Dai Qingtiai	1	
审核人:	韩鹏	批准人:	史闻博	
Checked by	十月川村	Approved by	入門时	
	批准日期: 2/27/2023			
Approved Date				

二、教学目标 Subject Learning Objectives (SLOs)

注: 毕业要求及指标点可参照悉尼学院本科生培养方案,可根据实际情况增减行数

Note: GA and index can be referred from undergraduate program in SSTC website. Please add/reduce lines based on subject.

整体目标: Overall Objective	web 开发与应用是将数据库技术与 J2EE 结合的最新技术,是计算机科学实践性很强的课程。通过该门课程的学习,使学生掌握 Web应用编程基础、JSP、Servlet、JDBC 连接、Java 连接池、基于数据库的设计及应用、Struts 及 Hibernate 技术等方面的理论和实践应用知识。 Web application development is the latest technology that combines database technology with J2EE. It is a practical course of computer science. Through the study of this course, students can master the theoretical and practical application knowledge of web application programming foundation, JSP, servlet, JDBC connection, Java connection pool, database based design and application, struts and Hibernate technology, etc				
	1-1	掌握利用 JSP 开发 Web 应用程序的核法。 Understand the core idea and basic methodevelop web application.			
(1) 专业目标:	1-2	掌握 JSP 语言基础知识与编程的必备知识和工具。 Master the basic knowledge of JSP language and the necessary knowledge and tools of programming.			
Professional Ability 1-3		掌握 JSP 语言的基本语法、JSP 内置对象、文件操作及 JDBC、JavaBean、Servlet。 Master the basic syntax of JSP language, JSP built-in objects, file operation and JDBC, JavaBean, servlet;.			
	1-4	掌握 Html、CSS、JavaScript。 Learn the knowledge of Html, CSS, JavaScript.			
(2) 海育日标:	2-1	培养学生的编程思维和实际动手能力,以 Cultivate students' programming thinking an as well as innovation ability.			
(2)德育目标: Essential Quality	能够在多学科背景下的团队中承担个体、团队成员以及负责人的角色。 Be able to play the role of individual, team member and leader in a multidisciplinary team				
课程教	学目标	与毕业要求的对应关系 Matrix of GA & SL	.Os		
毕业要求 GA		指标点 GA Index	教学目标 SLOs		
识,包括计算机系统 库系统、人机交互、 复杂性、程序设计语 络与计算、软件工程等	指标点 5-1: 掌握解决复杂计算机系统工程问题的基础理论知识: 程系统、人机交互、算法与复杂性、程序设计语言、网络与计算、软件工程等。 GA5. Master the knowledge 指标点 5-1: 掌握解决复杂计算机系统工程问题的基础理论知识: 指标点 5-2: 具备计算机科学与技术专业所需的设计/开发技能,能够设计针对复杂计算机工程问题的解决方案,设计满足特定需求的软硬件系统;				

of computer software and hardware system, including	指标点 5-3: 能够综合运用理论和技术手 段解决计算机领域中的实际问题;	
computer system, database system, human-computer	指标点 5-4: 培养具有一定创新意识的工程人才。	
interaction, algorithm and complexity, programming language, network and computing, software engineering, etc.	5-1: Master the basic theoretical knowledge of solving complex computer system engineering problems; 5-2:Master the basic theoretical knowledge of solving complex computer system engineering problems; Have the design /	
	development skills required by computer science and technology, be able to design solutions for complex computer engineering problems, and design software and hardware systems to meet specific	
	needs; 5-3: Be able to solve practical problems in the field of computer by means of theory and technology; 5-4: Cultivating engineering talents with a certain sense of innovation.	
	指标点 6-1:结合计算机学科的基本原理 和专业知识,设计实验进行探索和分析 讨论,并优化实验技术与工程方案;	
6、具有计算机应用系统的分析、设计、开发、实施和项目管理的能力。具有综合运用所学科学理论和技术手段分析并解决工程问题的能力。	6-1: Combined with the basic principles and professional knowledge of computer science, the experiment is designed for exploration, analysis and discussion, and the experimental technology and engineering scheme are optimized;	1-2, 2-1
GA6. Have the ability of computer application system analysis, design, development,	指标点 6-2:掌握本专业的工程实践中涉及的重要工程技术指标,研究达到指标的工程技术途径;	
implementation and project management. Have the ability to analyze and solve	指标点 6-3: 熟悉计算机项目管理手段、 方法,具有一定的组织管理能力、较强 的表达能力和人际交往能力。	14 21 22
engineering problems by using scientific theory and technical means.	6-2: Master the important engineering technical indexes involved in the engineering practice of the major, and	1-4, 2-1, 2-2
	study the engineering technical ways to achieve the indexes; 6-3: Familiar with computer project	
	management means, methods, with a	

	certain organization and management ability, strong expression ability and interpersonal skills.	
9、具有良好的团队协作意识、组织管理能力和社会适应能力。 GA9. Have a good sense of teamwork, organizational management ability and social adaptability.	指标点 9-1: 具有一定的组织管理能力、较强的表达能力和人际交往能力。 指标点 9-2: 能够理解团队合作对于项目的意义,积极在团队中发挥作用、体现能力。 9-1: Have certain organization and management ability, strong expression ability and interpersonal skills. 9-2: Be able to understand the significance of teamwork for the project, and actively play a role in the team and reflect the ability.	2-2

三、教学内容 Content (Topics)

注: 以中英文填写,各部分内容的表格可根据实际知识单元数量进行复制、扩展或缩减

Note: Filled in both CN and EN, extend or reduce based on the actual numbers of knowledge unit

(1) 理论教学 Lecture

知识单元序号:			支撑教学目标:	1-1	
,	1		2 3 3 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1-2	
Knowledge Unit No.			SLOs Supported	1-4	
知识单元名称	JSP 简介				
Unit Title	Introduction of	Introduction of JSP			
	什么是 JSP				
	What is JSP				
	安装配置 JSP 运行环境				
	Install and configure JSP running environment				
知识点:	JSP 页面				
Knowledge Delivery	ry JSP page JSP 运行原理				
	JSP running p	rinciple			
	HTML 与 Jav	vaScript			
	HTML and Ja	vaScript			
	了解:	Html f	的发展历程;		
	Recognize	The dev	relopment of HTML;	_	
学习目标:	理解:	JSP 运行			
Learning Objectives	Understand	JSP run	ning principle		
	掌握: Html 标签、Form 表单、Css 语法、JavaScript 语法				
	Master	Html, F	orm, Css, JavaScript		

德育目标	2-1
Moral Objectives	2-1
	建立 JSP 开发环境
重点:	Establish JSP development environment
Key Points	编写第一个 JSP 程序
	Start programming
难点:	建立 JSP 开发环境
Focal points	Establish JSP development environment

知识单元序号:	_		支撑教学目标:	1-2		
Knowledge Unit No.	2		SLOs Supported	1-3		
知识单元名称	JSP 语法					
Unit Title	JSP syntax					
	JSP 页面的基	本结构				
	The basic stru	The basic structure of JSP page				
	声明变量和定	声明变量和定义方法				
	Declaring var	iables and	l defining function			
知识点:	Java 程序片与	j Java 表	达式			
Knowledge Delivery	Java program	slices and	d Java expressions			
	JSP 的注释					
	Comments on	JSP				
	JSP 的指令标	记与动作	F标记			
	Instruction tag	g and acti	on tag of JSP			
	了解: JSP 的注释					
	Recognize	Comme	nts on JSP			
	JSP 页面的基本结构					
	理解:	理解: The basic structure of JSP page				
学习目标:	Understand	声明变	量和定义方法			
Learning Objectives			ng variables and defining func	tion		
		Java 程	亨片与 Java 表达式			
	掌握:	Java pro	gram slices and Java expressi	ons		
	Master	JSP 的打	旨令标记与动作标记			
		Instructi	on tag and action tag of JSP			
德育目标	2-1					
Moral Objectives	2-2					
	Java 程序片与					
重点:	1 0		d Java expressions			
Key Points	JSP 的指令标					
	Instruction tag					
难点:	JSP 的指令标记与动作标记					
Focal points	Instruction tag and action tag of JSP					

知识单元序号: Knowledge Unit N o.	3	支撑教学目标: SLOs Supported	1-2 1-3
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知识单元名称	JSP 的内置对象			
Unit Title	Built in objects of JSP			
	Request 对象			
	Request			
	Response 对象			
	Response			
知识点:	Session 对象			
Knowledge Delivery	Session			
	Application 对象			
	Application			
	Out 对象			
	Out			
学习目标: Learning Objectives	理解: Understand	Session 对象、Application 对象和 Out 对象的用法 Using the objects of Session, Application and Out.		
	掌握:	Request 对象、Response 对象的用法		
	Master	Using the objects of Request and Response.		
德育目标	2-1			
Moral Objectives	2-2			
重点:	Request 对象、R	esponse 对象的用法		
Key Points	Using the objects of Request and Response.			
难点:	Request 对象、R	esponse 对象的用法		
Focal points	Using the objects	of Request and Response.		

知识单元序号: Knowledge Unit No.	4	支撑教学目标: SLOs Supported	1-1 1-3 1-4	
知识单元名称 Unit Title	JSP 与 JavaBean JSP and JavaBean			
知识点: Knowledge Delivery	编写和使用 JavaBean Programming and using 获取和修改 Bean 属性 Getting and modifying Bean 的辅助类 Auxiliary class of bean JSP 与 Bean 结合的简 A simple example of JS	E bean properties 单例子		

	了解:	Bean 的辅助类		
	Recognize	Auxiliary class of bean		
	理解:	JSP 与 Bean 结合的简单例子		
学习目标:	Understand	A simple example of JSP combined with bean		
Learning Objectives		编写和使用 JavaBean		
	掌握:	Programming and using JavaBeans		
	Master	获取和修改 Bean 属性		
		Getting and modifying bean properties		
德育目标	2-1			
Moral Objectives	2-2			
	编写和使用 JavaBean			
重点:	Programming	Programming and using JavaBeans		
Key Points	获取和修改 Bean 属性			
	Getting and modifying bean properties			
难点:	Bean 的辅助类			
Focal points	Auxiliary class of bean			

			,	
知识单元序号:	5		支撑教学目标:	1-1
Knowledge Unit No.	3		SLOs Supported	1-3
知识单元名称	Java Servlet 基础			
Unit Title	Basic of Java Servlet			
	Servlet 的部署	署、创建	和运行	
	Deployment,	creation a	nd operation of Servlet	
	Servlet 的工作	乍原理		
	Working prine	ciple of S	ervlet	
	通过 JSP 页面	面访问 Se	rvlet	
知识点:	Accessing ser	vlet throu	gh JSP page	
Knowledge Delivery	doget 和 dopo	ost 方法		
	Doget and dog	post meth	ods	
	重定向和转发	文		
	SendRedirect	and forw	ard	
	使用 Session			
	Using Session			
		重定向	和转发	
	了解:	SendRe	direct and forward	
	Recognize	使用 Se	ssion	
		Using S	ession	
		通过 JS	P 页面访问 Servlet	
学习目标:	理解:	Accessi	ng servlet through JSP page	
Learning Objectives	Understand	doget 利	l dopost 方法	
		Doget a	nd dopost methods	
		Servlet	的部署、创建和运行	
	掌握:	1	ment, creation and operation of	of Servlet
	Master	Master Servlet 的工作原理		
		Working	g principle of Servlet	

德育目标	2-1
Moral Objectives	2-2
	Servlet 的部署、创建和运行
重点:	Deployment, creation and operation of Servlet
Key Points	Servlet 的工作原理
	Working principle of Servlet
	重定向和转发
难点:	SendRedirect and forward
Focal points	doget 和 dopost 方法
	Doget and dopost methods

知识单元序号:	6		支撑教学目标:	1-1	
Knowledge Unit No.	SLOs Supported			1-3	
知识单元名称	MVC 模式				
Unit Title	MVC mode				
	MVC 模式介	绍			
	Introduction of	Introduction of MVC mode			
	JSP 中的 MV	C 模式			
知识点:	MVC mode in	n JSP			
Knowledge Delivery	模型的生命周	周期与视	图更新		
	Model life cyc	cle and vi	ew updating		
	MVC 模式的简单实例				
simple example of MVC pattern					
	了解: JSP 中的 MVC 模式				
	Recognize MVC mode in JSP				
学习目标:	理解: 模型的生命周期与视图更新				
Learning Objectives	Understand	Model 1	ife cycle and view updatin	ıg	
	掌握:	JSP 中的	り MVC 模式		
	Master	MVC m	ode in JSP		
德育目标	2-1				
Moral Objectives	2-2				
重点:	JSP 中的 MVC 模式				
Key Points	MVC mode in JSP				
	JSP 中的 MVC 模式				
难点:	MVC mode in JSP				
Focal points	模型的生命周期与视图更新				
	Model life cycle and view updating				

知识单元序号:	7	支撑教学目标:	1-1
Knowledge Unit No.	/	SLOs Supported	1-3
知识单元名称	JSP 中使用数据库		
Unit Title	Using database in JSP		
知识点:	MySQL 数据库管理系统		
Knowledge Delivery	Mysql database management system		

Query, update, add and delete records 用结果集操作数据库中的表 Using result set to operate tables in database 预处理语句和事务 Preprocessing statements and transactions 标准化考试训练 Standardized examination training		*\\ _\) T. L., 1., HILLIAN) → □			
用结果集操作数据库中的表 Using result set to operate tables in database 预处理语句和事务 Preprocessing statements and transactions 标准化考试训练 Standardized examination training		查询、更新、添加与删除记录				
Using result set to operate tables in database 预处理语句和事务 Preprocessing statements and transactions 标准化考试训练 Standardized examination training 预处理语句和事务 了解: Recognize Recognize William Hafa果集操作数据库中的表 Understand Using result set to operate tables in database Using database in JSP 掌握: Using database in JSP 掌握: Day William Washing Washin						
预处理语句和事务 Preprocessing statements and transactions 标准化考试训练 Standardized examination training		用结果集操作数据库中的表				
Preprocessing statements and transactions 标准化考试训练 Standardized examination training 预处理语句和事务 了解: Recognize 标准化考试训练 Standardized examination training 理解: 用结果集操作数据库中的表 Understand Using result set to operate tables in database Using database in JSP 查询、更新、添加与删除记录 Query, update, add and delete records		Using result s	Using result set to operate tables in database			
标准化考试训练 Standardized examination training 预处理语句和事务 了解: Recognize 学习目标: Understand Using result set to operate tables in database JSP 中使用数据库 Using database in JSP 掌握: Master @育目标 Moral Objectives 虚育目标 Using database in JSP 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Using database in JSP 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Using database in JSP 查询、更新、添加与删除记录 Query, update, add and delete records @育目标 Using database in JSP 查询、更新、添加与删除记录 Query, update, add and delete records @in 更新、添加与删除记录 Query, update, add and delete records @in 更新、添加与删除记录 Query, update, add and delete records		预处理语句和	中事务			
Standardized examination training 預处理语句和事务		Preprocessing	statements and transactions			
ア解: Recognize		标准化考试训	练			
ア解: Recognize		Standardized	examination training			
Recognize 标准化考试训练 Standardized examination training 理解: 用结果集操作数据库中的表 Understand Using result set to operate tables in database Using database in JSP 掌握: 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 意育目标 Moral Objectives 基点: Using database in JSP 查询、更新、添加与删除记录 Query, update, add and delete records			预处理语句和事务			
Standardized examination training 理解: 用结果集操作数据库中的表 Understand Using result set to operate tables in database Learning Objectives JSP 中使用数据库 Using database in JSP 掌握: 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 德育目标 Moral Objectives Z-2 JSP 中使用数据库 Using database in JSP 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records		了解:	Preprocessing statements and transactions			
理解: 用结果集操作数据库中的表 Understand Using result set to operate tables in database JSP 中使用数据库 Using database in JSP 掌握: 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 德育目标 2-1 Moral Objectives 基点: 查询、更新、添加与删除记录 Using database in JSP 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records		Recognize	标准化考试训练			
学习目标: Learning Objectives Learning Objectives Using result set to operate tables in database JSP 中使用数据库 Using database in JSP 章询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 意育目标 Aboral Objectives 重点: 重点: 基点: Key Points Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records			Standardized examination training			
Learning Objectives JSP 中使用数据库 Using database in JSP 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 德育目标 Z-1 Moral Objectives JSP 中使用数据库 Using database in JSP 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records		理解:	用结果集操作数据库中的表			
Using database in JSP 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 德育目标 2-1 Moral Objectives JSP 中使用数据库 Using database in JSP 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records	学习目标:	Understand	Using result set to operate tables in database			
掌握: 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 德育目标 Moral Objectives 2-2 JSP 中使用数据库 Using database in JSP 重点: 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records	Learning Objectives		JSP 中使用数据库			
Master Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 德育目标 2-1 Moral Objectives 2-2 JSP 中使用数据库 Using database in JSP 重点: 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records			Using database in JSP			
查询、更新、添加与删除记录 Query, update, add and delete records 德育目标 Moral Objectives 2-2 JSP 中使用数据库 Using database in JSP 重点: 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records		掌握:	查询、更新、添加与删除记录			
Query, update, add and delete records 德育目标 Amoral Objectives JSP 中使用数据库 Using database in JSP 重点: 查询、更新、添加与删除记录 Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records		Master	Query, update, add and delete records			
德育目标 2-1 Moral Objectives 2-2 JSP 中使用数据库 Using database in JSP 重点: 查询、更新、添加与删除记录 Key Points Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records			查询、更新、添加与删除记录			
Moral Objectives 2-2 JSP 中使用数据库 Using database in JSP 重点: 查询、更新、添加与删除记录 Key Points Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records			Query, update, add and delete records			
JSP 中使用数据库 Using database in JSP 重点: 查询、更新、添加与删除记录 Key Points Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records	德育目标	2-1				
Using database in JSP 重点: 查询、更新、添加与删除记录 Key Points Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records	Moral Objectives	2-2				
重点: 查询、更新、添加与删除记录 Key Points Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records		JSP 中使用数				
Key Points Query, update, add and delete records 查询、更新、添加与删除记录 Query, update, add and delete records		Using databas	se in JSP			
查询、更新、添加与删除记录 Query, update, add and delete records	重点:	查询、更新、添加与删除记录				
Query, update, add and delete records	Key Points	Query, update, add and delete records				
		查询、更新、	添加与删除记录			
7ft E 0 1 1 1 1 1 1 1 1 1		Query, update, add and delete records				
难点: Query, update, add and delete records	难点:	Query, update, add and delete records				
Focal points 查询、更新、添加与删除记录	Focal points	查询、更新、	添加与删除记录			

知识单元序号:	8	支撑教学目标:	1-1
Knowledge Unit No.	0	SLOs Supported	1-3
知识单元名称	JSP 中的文件操作		
Unit Title	File operation in JSP		
	File 类		
	Class File		
	RandomAccessFile 类		
	Class RandomAccessF	ile	
知识点:	文件上传		
Knowledge Delivery	Upload File		
	文件下载		
	Download File		

	了解:	RandomAccessFile 类	
	Recognize	Class RandomAccessFile	
		文件上传	
学习目标:	理解:	Upload File	
Learning Objectives	Understand	文件下载	
		Download File	
	掌握: File 类		
	Master Class File		
德育目标	2-1		
Moral Objectives	2-2		
重点:	File 类		
Key Points	Class File		
难点:	RandomAccessFile 类		
Focal points	Class RandomAccessFile		

(2) 实验教学 Experiments

注: 可根据实际情况增减行数。实验类型可分为验证性、设计性、综合性,实验性质可分为选做、必做。

Note: Please add/reduce lines based on subject. The Type contains Verify, Design, and Comprehensive, while the Pattern contains Required and Elective

序号	实验项目名称	学时	每组人数	实验类型	实验性质
No.	Experiment Topic	Hours	MPG*	Type	Pattern
	基本开发工具的应用			设计性	必做
1	The primary use of Eclipse IDE(Java	2	1		
	EE IDE)			Design	Elec
2	Request 对象的使用	2	1	设计性	必做
2	The usage of Request object API.	2	1	Design	Elec
3	JDBC 和 Servlet 的应用	2	1	设计性	必做
3	Application of JDBC and Servlet	2	1	Design	Elec
	运用 SSH 框架编写简单程序			3万.37.44·	. N. H4.
4	Using SSH framework to edit a	2	1	设计性	必做
	simple JSP program.			Design	Elec
	总计 Total	8			

^{*}MPG: Members per group

实验项目序号:	1	支撑教学目标:	1-1 、1-2
Experiment No.	1	SLOs Supported	1-1 \ 1-2
每组成员:	1	指导教师:	戴庆天
Members per Group	1	Tutor	郑/人 八
实验名称:		基本开发工具的应用	
Experiment Title	The primary use of Eclipse IDE(Java EE IDE)		
实验内容:	掌握 eclipse(j2ee)开发	环境。建立一个 web I	工程,配置好 tomcat 服
关述内容: Content	务器,将工程部署在原	服务器上并启动服务。	
Content	Building web project	s via Eclipse IDE(Jav	vaEE IDE), mastering

	configurations of Tomcat. Deploy the project on the Tomcat server and
	start the service.
	学会使用 CSS 和 JSP 标签
	Learning to use CSS technology and JSTL
	使用 CSS 表单技术对页面进行设计
	Using CSS form technology to design JSP webpage
₩ 건 L1 T-	运用基本 JSP 技术和 CSS 表单技术设计一个简单网页
学习目标:	Using primary JSP methods and CSS form technology to design a JSP
Learning Objectives	webpage
	掌握 eclipse(j2ee)开发环境。学会使用 CSS 和 JSP 标签
教学要求:	Building web projects via Eclipse IDE (Java EE IDE), mastering
Requirements	configurations of Tomcat.
	Learning to use CSS technology and JSTL
实验场地:	1207
Location	1207
实验软硬件设备:	高性能计算机
Software/Hardware	High performance computer

实验项目序号: Experiment No.	2	支撑教学目标: SLOs Supported	1-2、1-3
每组成员:		指导教师:	
Members per Group	1	Tutor	戴庆天
	D 动色的体田	Tutoi	
实验名称:	Request 对象的使用。		
Experiment Title	The usage of Request of		
		亥页面提供一个表单,用	月户通过表单输入两个
	数和四则运算符号提	交给该页面;	
	Editing a JSP webpage	, this page offers JSP form	n, the client could
	input two numbers and	four kinds of operation s	ymbols via this form,
实验内容:	then the input content of	could be offered to the JS	P page
Content	编写两个JSP页面,一个页面提交数字给另一个页面,另一个页面		
	使用 response 对象做出动态响应。		
	Editing two JSP pages, one of the two pages offers numbers to another		
	page, the received page uses response object API to make a dynamic		
	response.		
	тезропзе.		
学习目标:	JSP 中请求和响应对象接口方法的运用		
Learning Objectives	The API usage of Requ		
		F	
	JSP 中请求和响应对象	象接口方法的运用	
**********	The API usage of Request and Response		
教学要求:	运用请求和响应方法实现两个页面的交互		
Requirements	Using request and response method to realize the interaction of two		
	JSP pages		
实验场地:	1207		

Location	
实验软硬件设备:	高性能计算机
Software/Hardware	High performance computer

实验项目序号: Experiment No.	3	支撑教学目标: SLOs Supported	1-2、1-3	
每组成员: Members per Group	1	指导教师: Tutor	戴庆天	
实验名称: Experiment Title		C 的基本应用 Servlet 和		
		用 JDBC 访问 mysql 数据rvlet technology; using JI		
实验内容: Content				
	通过 JDBC 的方式实现对数据库表中数据的增删改查。 Through the way of JDBC, the user could add, delete, modify and query the data in the database table.			
学习目标: Learning Objectives	掌握 JSP 页面中访问数据库的方法 Mastering the method of connecting databases on JSP pages			
教学要求: Requirements	通过 JDBC 的方式实现对数据库表中数据的基本操作 Primary operation in database table realized by JDBC			
实验场地: Location	1207			
实验软硬件设备: Software/Hardware	高性能计算机 High performance computer			
1	ingh performance computer			

实验项目序号:	,	支撑教学目标:	
Experiment No.	4	SLOs Supported	1-3、1-4
每组成员:	1	指导教师:	# 广工
Members per Group	1	Tutor	戴庆天
实验名称:	SSH 框架的配置		
Experiment Title	Configuration of SSH framework		
	熟悉 SSH,并掌握基本的配置		
实验内容:	Mastering the primary configuration of SSH framework		
Content	使用 SSH 框架编写一个简单的小程序。		
	Using SSH framework to edit a simple JSP program.		

学习目标:	了解 JSP 中常用的框架,掌握 SSH 框架的配置	
Learning Objectives	Learning common frameworks in JSP	
Learning Objectives	Mastering Configuration of SSH framework	
教学要求:	使用框架编写一个简单的网页程序,并实现前后端交互。	
教子安水: Requirements	Using framework to edit a simple JSP program;	
Requirements	Realize the interaction of front and end	
实验场地:	1207	
Location	1207	
实验软硬件设备:	高性能计算机	
Software/Hardware	High performance computer	

四、教学安排 Teaching Schedule

注: 可根据实际情况增减行数

Note: Please add/reduce lines based on subject.

		学时(周) Hour(Week)			
教学内容 Teaching Content	理论	实验	课外实践	集中实践	
	LECT.	EXP.	PBL	PRAC.	
JSP 简介	4	2			
Introduction of JSP	4	2			
JSP 语法	6				
JSP syntax	U				
JSP 的内置对象	6	2			
Built in objects of JSP	U				
JSP 与 JavaBean	4				
JSP and JavaBean	4				
Java Servlet 基础	4				
Basic of Java Servlet	4				
MVC 模式	4				
MVC mode	4				
JSP 中使用数据库	8	2			
Using database in JSP	O	8 2			
JSP 中的文件操作	4				
File operation in JSP	4	2			
总计 Total	40	8			

五、教学方法 Teaching Methodology

注: 可根据实际情况增减行数或修改内容

Note: Please add/reduce lines or revise content based on subject.

勾选 Check 教学方法与特色 Teaching Methodology & Characters	
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M	多媒体教学:基于信息化设备的课堂教学
	Multi-media-based lecturing
M	实践能力传授:理论与行业、实际案例相结合
	Combining theory with industrial practical problems
M	课程思政建设:知识讲授与德育相结合
<u> </u>	Knowledge delivery with ethic education
	PBL 教学:问题驱动的分组学习与交流
	Problem-based learning
	其他:单击或点击此处输入文字。
	Other:单击或点击此处输入文字。

六、成绩评定 Assessment

注: 可根据实际情况增减行数或修改内容

Note: Please add/reduce lines or revise content based on subject.

考核环节:	平时 Behavior	环节负责人:	王军伟
Assessment Content	HJ Dellaviol	Director	工手巾
给分形式:	百分制 Marks	课程总成绩比重(%):	30
Result Type	日月即1 IVIAIKS	Percentage (%)	30
	满分 100 分,以学生平时考勤、课堂表现,学生平时作业完成情况综合评定,其中,学生考勤、课堂表现占比 50%,学生平时作业完成情况占比 50%.		
考核方式:	The full score is 100. Students' attendance, classroom performance,		
Measures	random questions from teachers, and students' homework completion		
	are comprehensively evaluated. Among them, students' attendance and		
	classroom performance accounts for 50%, student's completion of homework in daily life accounts for 50%.		

考核环节:	实验 Experiment	环节负责人:	戴庆天
Assessment Content	7	Director	, , , , , , , , , , , , , , , , , , ,
给分形式:	百分制 Marks	课程总成绩比重(%):	20
Result Type	日月申』Warks	Percentage (%)	20
	满分 100 分,以学生	出勤率、实验表现、实验	金报告完成情况综合评
	定,其中,学生考勤。	占比 20%,平时课堂表现	见、课堂教师随机提问
	占比 30%, 学生平时作业(课前预习作业、课后作业)完成情况占		
	50%.		
考核方式:	The full score is 100. Students' attendance, classroom performance,		
Measures	and students' experiment report are comprehensively evaluated. Among		
	them, students' attendance accounts for 20%, classroom performance		
	and random questions from teachers account for 30%, and students' homework (preview homework before class and homework after class) accounts for 50%.		

考核环节:	期末 Final	环节负责人:	王军伟
Assessment Content	州本 Fillal	Director	土牛市
给分形式:	百分制 Marks	课程总成绩比重(%):	50
Result Type	自力中,Iviaiks	Percentage (%)	50
考核方式:	满分 100 分,通过批	阅结课报告给出学生成绩	绩。
写核方式: Measures	The full score is 100, and students' scores are given according to		
ivieasures	course report.		

七、改进机制 Improvement Mechanism

注: 未尽事宜以教学团队以及学院教学指导委员会商定为准。

Note: Matters not covered in this file shall be determined by TAB of SSTC, NEU.

教学大纲改进机制 Subject Syllabus Improvement Mechanism				
考核周期(年):	4	修订周期(年):	4	
Check Period (YR)	4	Revise Period (YR)	4	
	课程负责人根据课程	教学内容与人才培养目	标组织课程团队讨论	
	并修改教学大纲,报分管教学工作副院长审核后由执行院长批准。			
改进措施:	The subject coordinator shall be responsible for the syllabus discussion			
Measures	and improvement, and the revised version shall be submitted to deputy			
	dean (teaching affairs) for reviewing then to executive dean for			
	approvement.			
成绩记	平定改进机制 Assessme	ent Improvement Mech	anism	
考核周期(年):	1	修订周期(年):	1	
Check Period (YR)	1	Revise Period (YR)	1	
	课程负责人根据课程	教学内容、课堂教学效务	果以及成绩分布,对课	
少 进拢。	程教学方法和成绩评定环节进行改进,并同步优化评定办法。			
改进措施: Measures	The subject coordinator shall revise the syllabus based on the teaching			
ivieasures	content, effect and result distribution while optimize the assessment			
	measures.			