



SODV08010

Enterprise Application Development

Transcript Title	Enterprise Application Dev				
Full Title	Enterprise Application Development				
Attendance	N/A			Discipline	Software Development
Coordinator	Alan Ryan			Department	Information Technology
Official Code	SODV08010	NFQ Level	08	ECTS Credit	05

Module Description

This module is designed to equip learners with the foundations required to build enterprise applications in Java.

Learning Outcomes

On completion of this module the learner will/should be able to

1. Recognition of the need for suitable design patterns when constructing web applications.
2. Identify and minimise the impact of security vulnerabilities in a web application.
3. Appraise and select the appropriate use of client and server side session management.
4. Develop secure web applications that implement stateful interactions.

Teaching and Learning Strategies

The module will be delivered through a combination of lectures, lab-lectures and practical classes. The lectures and lab-lectures will drive the content which will then be reinforced in the practical classes. Self-directed learning will be strongly encouraged throughout this module.

Assessment Strategies

Learners must achieve at least 40% in the module.

Repeat Assessment Procedures

The repeat examination is worth 100% of the overall assessment and follows the format of the original end of semester/stage examination.

Assessment Facilities

Computer lab oratory.

Indicative Syllabus

Building MVC Compliant web Applications using J2EE.

Servlets.

JSP's.

Expression Language and JSTL.

Sessions and Cookies.

Using SSL as a security mechanism.

Restricting access to resources.

Working with HTTP requests and responses.

Listeners and Filters.

Web Sockets.

Java Persistence.

Connection pooling.

JPA.

Criteria API.

CourseWork / Assessment Breakdown

CourseWork / Continuous Assessment	70 %
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End of Semester / Year Formal Examination	30 %
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Coursework Assessment Breakdown

Description	Outcome Assessed	% of Total	Assessment Week
Practical Evaluation Practical	1,2,3,4	70	Ongoing

End Exam Assessment Breakdown

Description	Outcome Assessed	% of Total	Assessment Week
Final Written Exam	1,2,3	30	End of Semester

Full Time Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld
Lecture	Lecture Theatre	Lecture	1	Weekly	1.00
Laboratory Practical	Computer Laboratory	Practical Class	2	Weekly	2.00
Lab based Lecture	Computer Laboratory	Lab based Lecture	1	Weekly	1.00

Total Average Weekly Learner Workload 4.00 Hours

Module Resources

Module Book Resources

None

Module Alternate Book Resources

None

Module Other Resources

None

Module URLs

<http://docs.oracle.com/javase/8/docs/api/>

<https://docs.oracle.com/javaee/7/api/toc.htm>

<http://www.lynda.com/>

<http://moodle.lit.ie/>

Additional Information

None

ISBN BookList

Book Details

Joel Murach 2014 *Murach's Java Servlets and JSP, 3rd Edition (Murach: Training & Reference)* Mike Murach & Associates

ISBN-10 1890774782 ISBN-13 9781890774783

Ram Kulkarni 2015 *Java EE Development with Eclipse - Second Edition* Packt Publishing - ebooks Account

ISBN-10 1785285343 ISBN-13 9781785285349

Programme Membership

Code	Intake Year	Programme Title
LC_KSOFT_K08MY	201600	Bachelor of Science (Honours) in Software Development