

Secure Systems

Module Information

2022.01, Approved

Summary Information

Module Code	7142COMP	
Formal Module Title	Secure Systems	
Owning School	Computer Science and Mathematics	
Career	Postgraduate Taught	
Credits	20	
Academic level	FHEQ Level 7	
Grading Schema	50	

Teaching Responsibility

LJMU Schools involved in Delivery

Computer Science and Mathematics

Learning Methods

Learning Method Type	Hours
Lecture	11
Practical	22

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims be utilise	rise students with common system security techniques, tools and methods that can during the design, deployment and maintenance of systems. To allow students to ew advanced security skills and to combine their existing and new skills in a practical
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Display critical awareness of the relationship between theoretical and practical security concepts and their implementation.
MLO2	2	Apply technical and conceptual skills to the task of securing a complex computer system
MLO3	3	Critically evaluate practical configuration, diagnostic and problem solving techniques for security complex computer systems

Module Content

Outline Syllabus	Common concepts of securing systems Infrastructure design & topologiesSecure NetworkingApplication securitySecure administration & defenceEvent monitoring and analysisAccess control and authenticationSecurely implementing common serversSystem configuration & automationPatching and vulnerability management
Module Overview	
Additional Information	This module provides an opportunity for students to gain both theoretical and practical knowledge and experience in creating and managing secure systems.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Secure system report	40	0	MLO1
Report	Secure system implementation	60	0	MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Nathan Shone	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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