

Identity and Trust

Module Information

2022.01, Approved

Summary Information

Module Code	7108COMP
Formal Module Title	Identity and Trust
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	12
Seminar	24

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

Aims	To allow students to develop advanced understanding of the complex information security concepts of identity and trust. The closely related problem of privacy will be explored in the context of identity and trust. By studying existing solutions for identity and trust in computer systems students will be able to propose their own design for a particular application.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Understand the complexity of the relationship between identity and trust.
MLO2	2	Demonstrate a critical awareness of how privacy intersects with identity and trust.
MLO3	3	Critically evaluate technology solutions for identity, trust and privacy.
MLO4	4	Show originality in the design of identity and trust solutions for applications.

Module Content

Outline Syllabus	Defining the concepts of identity and trust Identity and trust in the offline world Identity Theft Cryptographic solutions for identity and trust Public Key Infrastructure (PKI) Identity Management – Authorization, Authentication, Accounting (AAA) Directory Services Single Sign-On Protocols; WS-Security, OpenID, WS-Trust, SAML, OAuth Privacy; concepts, problems, legal status Privacy Enhancing Technologies (PETs) Anonymity – concepts, benefits and problems with anonymity TOR
Module Overview	
Additional Information	The module approaches the difficult security problems of identity and trust through a mostly theoretical lens, but considers practical solutions in use by practitioners. The module ends with an in depth consideration of privacy and how it relates to identity and trust.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Research and design of a PET	100	0	MLO1, MLO2, MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Bob Askwith	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings