Information and Social Networks

Module Information

2022.01, Approved

Summary Information

Module Code	7102COMP
Formal Module Title	Information and Social Networks
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
Tutorial	24

Module Offering(s)

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

Aims and Outcomes

Aims	To study how the social, technological, and natural worlds are connected.To understand how elementary graph-theoretic concepts may help understanding the structure and certain properties of networks.To understand the software development possibilities offered by the emergence of information and social networks environments.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Identify the main issues, techniques, and tools needed for the development of applications in the area of Information and social networks.
MLO2	2	Use mathematical techniques to model and analyse structural and dynamical properties of networks.
MLO3	3	Identify patterns of internal structure on the networks and their effects on the population.

Module Content

Outline Syllabus	Fundamental ideas from social network analysis and framing a number of graph-theoretic concepts in these terms. Web graph, link analysis for Web search.Empirical studies of on-line social networks.Technical issues in social networking such as large scale network modelling and the information propagation.
Module Overview	The aim of this module is to provide you knowledge as to how the social, technological, and natural worlds are connected. It: helps you to understand how elementary graph-theoretic concepts may help understanding the structure and certain properties of networks enables you to understand the software development possibilities offered by the emergence of information and social networks environments
Additional Information	This course covers different scientific perspectives in its approach to understanding networks and behaviour.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Critical survey	50	0	MLO1
Centralised Exam	Examination	50	2	MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Somasundaram Ravindran	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings