

## Liverpool John Moores University

Title: RESEARCH TOPICS IN COMPUTER SCIENCE  
Status: Definitive  
Code: **7111COMP** (121333)  
Version Start Date: 01-08-2021

Owning School/Faculty: Computer Science and Mathematics  
Teaching School/Faculty: Computer Science and Mathematics

Team	Leader
Martin Randles	Y

**Academic Level:** FHEQ7      **Credit Value:** 20      **Total Delivered Hours:** 11  
**Total Learning Hours:** 200      **Private Study:** 189

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Seminar	11

**Grading Basis:** 50 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Research paper	80	
Presentation	AS2	Presentation	20	

### Aims

*To familiarise students with current research topics in Computer Science.  
Develop an understanding of research approaches in Computer Science including ethics and codes of conduct.  
Develop skills in Computer Science Research paper writing.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Conduct research relating to Computer Science following ethical principles.
- 2 Display advanced knowledge of one or more issues within Computer Science.
- 3 Demonstrate expertise in applying knowledge to Computer Science problems.
- 4 Demonstrate skills in the communication of research findings.

### **Learning Outcomes of Assessments**

The assessment item list is assessed via the learning outcomes listed:

Research paper	1	2	3	4
Presentation	4			

### **Outline Syllabus**

*Topics will include current research in Computer Science and may include but are not limited to:*

*Web Science and Graph Theory*

*The Semantic Web*

*Data Mining*

*Machine Learning*

*Real-time systems*

*Autonomic Computing*

*Functional Programming and Category Theory*

### **Learning Activities**

Learning activities will be seminar sessions based around research papers in computer science. A new topic will be introduced every two weeks followed by student-led discussions.

### **Notes**

This course covers current research in Computer Science.