

Mobile and Web Development

Module Information

2022.01, Approved

Summary Information

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|---------------------|----------------------------------|
| Module Code | 5005SEQR |
| Formal Module Title | Mobile and Web Development |
| Owning School | Computer Science and Mathematics |
| Career | Undergraduate |
| Credits | 20 |
| Academic level | FHEQ Level 5 |
| Grading Schema | 40 |

Teaching Responsibility

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| LJMU Schools involved in Delivery |
| LJMU Partner Taught |

Partner Teaching Institution

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| Institution Name |
| Oryx Universal College WLL |

Learning Methods

| Learning Method Type | Hours |
|----------------------|-------|
| Lecture | 11 |
| Practical | 33 |

Module Offering(s)

| Display Name | Location | Start Month | Duration Number Duration Unit |
|--------------|----------|-------------|-------------------------------|
| APR-PAR | PAR | April | 12 Weeks |
| JAN-PAR | PAR | January | 12 Weeks |

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|------------|-----|-------------------------------------|----------|
| SEP_NS-PAR | PAR | September (Non-standard start date) | 12 Weeks |
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Aims and Outcomes

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| Aims | To provide knowledge of various mobile and web platforms and architectures and gain experience in designing and developing mobile and web applications. |
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After completing the module the student should be able to:

Learning Outcomes

| Code | Number | Description |
|------|--------|---|
| MLO1 | 1 | Critically review mobile-first web application architecture. |
| MLO2 | 2 | Apply enterprise-scale application design methodologies. |
| MLO3 | 3 | Consider frameworks for the design and development of web applications. |
| MLO4 | 4 | Construct data-driven applications for mobile platforms. |

Module Content

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|------------------------|---|
| Outline Syllabus | Desktop vs Mobile-first design Responsive design Declarative layout/control frameworks Database connectivity/SQL-driven web development Web service connectivity Thin vs Thick clients Native mobile development and cross-platform implementations Logical and Physical Architectures |
| Module Overview | |
| Additional Information | This module is intended to provide an overview of developing web applications for mobile platforms. It will illustrate the main platforms available for mobile-focused web development, drawing data from a variety of sources including other web services and databases. The module will conclude with an overview of alternative mobile development techniques; familiarising the student with the fundamentals of native focused and cross-platform frameworks-focused mobile developments. |

Assessments

| Assignment Category | Assessment Name | Weight | Exam/Test Length (hours) | Module Learning Outcome Mapping |
|---------------------|--------------------|--------|--------------------------|---------------------------------|
| Report | Development report | 50 | 0 | MLO1, MLO2, MLO3 |
| Technology | Web application | 50 | 0 | MLO3, MLO4 |

Module Contacts