F29RD Professional Development

COURSE DETAILS

Course Code: F29RD
Full Course Title: Professional Development
SCQF Level: 9
SCAF Credits: 15
Available as Elective: No

DELIVERY LEVEL

Undergraduate: Yes  Postgraduate Taught: No  Postgraduate Research: No

Additional Information:

COURSE AIMS

- To instil a professional and ethical attitude toward the application of computer technology
- To introduce methods for the rational resolution of ethical problems
- To provide an appreciation of the relevant professional and legal requirements concerning computer-based systems
- To ensure an awareness of, and encourage deliberation about, the social implications of information technology

LEARNING OUTCOMES – SUBJECT MASTERY

Broad and integrated knowledge and understanding of:

- **British Computer Society Codes** - Conduct; Practice
- **ISO & BSI Standards** - Safety; Quality; Security
- **Statute Law** - Contracts, Torts, Restitution; Data Protection; Freedom of Information, Intellectual Property; Computer Misuse
- **Ethics** - Frameworks; Decision Making

Critical understanding and detailed knowledge of:

- Development life-cycle of a software system
- Bi-directional influence between technological and societal trends
- Current concerns over the application of computer technology
- Current and potential remedies to abuse of computer technology
- Can apply learned knowledge to work based computing projects

LEARNING OUTCOMES – PERSONAL ABILITIES

- Practice in personal decision making and introspection
- Identification and analysis of justification of personal choices to others
- Critical analysis of rational reasoning, consequential reasoning and debate
- Practice and reflective analysis of communication skills using a variety of media
F29RD Professional Development

- Aware of and can adapt to distinctive features of industrial practice as appropriate
- Can identify, define, and analyse alternative project scenarios
- Take significant responsibility for their work and for a range of resources

- Practice in working in a group, negotiating requirements, reaching a consensus, and working with others to a deadline

- Can communicate effectively with work colleagues on learned issues

SYLLABUS

**Professionalism** - British Computer Society.

**Rules & Regulations** - Codes & Standards; Computer Law; Ethical Decision Making.

**Risks & Threats** - Computer Crime; Viruses.

**Privacy & Security** – Databases; Biometrics.

**Dependence & Change** - Safety-Critical Systems; Technology & Society.

**Brave New Worlds** - Co-operative Computing; eLife.

### COURSE RELATIONSHIPS

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<th>School</th>
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<td>School of Math and Comp Sci.</td>
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### LOCATION AND ASSESSMENT METHODS

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