COURSE DETAILS
Course Code: F20CA
Full Course Title: Conversational Agents and Spoken Language Processing
SCQF Level: 10
SCAF Credits: 15
Available as Elective: No

DELIVERY LEVEL
Undergraduate: Yes Postgraduate Taught: No Postgraduate Research: No

Additional Information:

COURSE AIMS
This course aims to give students the opportunity to develop:

- Knowledge and understanding of design, implementation and evaluation techniques for conversational agents and spoken language processing.
- An awareness of current research and emerging issues in the field of conversational agents and spoken language processing.
- Knowledge that covers a range of interdisciplinary research methods and specialised practical skills involved in building working conversational interfaces.

LEARNING OUTCOMES – SUBJECT MASTERY

- Knowledge and understanding of how to review, critically analyse, evaluate and synthesize previous research in the field of conversational agents and spoken language processing.
- Use of current technologies.
- Acquire knowledge in applying algorithmic and interdisciplinary methods on conversational interfaces.
- Make informed judgments about appropriate methodologies for developing and evaluating conversational interfaces.
- Practice in implementing conversational interfaces using a suitable programming language and software tools.
- Experience in the use of multimodal sensors and existing Natural Language Processing technologies.

LEARNING OUTCOMES – PERSONAL ABILITIES

- Identification, representation and solution of problems.
- Time management and resource organisation.
- Research skills and report writing.
- Practise in the use of ICT, numeracy and presentation skills.
- Experience in group work: Take responsibility for their own and other's work by contributing effectively and conscientiously to the work of a group, actively maintaining, good working relationships with group members, and leading the direction of the group where appropriate.

SYLLABUS
This course covers current and emerging topics in conversational agents, spoken language processing, and multimodal...
interfaces, including:

- Introduction to research areas, such as spoken dialogue systems, multi-modal interaction, natural language processing, and human robot interaction.
- Spoken input processing and interpretation.
- Interaction Management.
- Output generation, multimodal fission, speech and gesture synthesis
- System development and evaluation.

COURSE RELATIONSHIPS

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<td>F20CA</td>
<td>9</td>
<td>Conversational Agents and Spoken Language Processing</td>
<td>School of Math and Comp Sci.</td>
<td>Pre-Requisite</td>
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LOCATION AND ASSESSMENT METHODS

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