C30SX Risk Management and Derivatives

**COURSE DETAILS**

**Course Code:** C30SX  
**Full Course Title:** Risk Management and Derivatives  
**SCQF Level:** 10  
**SCAF Credits:** 15  
**Available as Elective:** Yes

**DELIVERY LEVEL**

| Undergraduate: | Yes | Postgraduate Taught: | No | Postgraduate Research: | No |

**Additional Information:**

**COURSE AIMS**

The aim of this course is to develop an in-depth understanding of security analysis and derivatives applications in portfolio and risk management

**LEARNING OUTCOMES – SUBJECT MASTERY**

- understand and explain the various types of risk faced by various financial institutions;
- understand and critically appraise the various strategies involved in risk management practices (financial engineering);
- appraise the shortcomings of Black-Scholes option pricing model and master knowledge of methods of using these shortcomings;
- understand derivatives of options (the Greeks) and their uses.
- assess the effect of changing volatility in creating ‘smiles’ in B/S implied volatility estimates;
- describe the various uses of derivatives in dynamic asset allocation, portfolio insurance, hedging, executive compensation and banking

- critically evaluate relevant information gathered from a variety of sources.

**LEARNING OUTCOMES – PERSONAL ABILITIES**

- discuss real options (e.g., corporate capital investment projects) and their evaluations.
- discuss the determinants of portfolio performance.
- understand bond portfolio management and the determinants of bond prices.
- critically appraise security analyses (fundamental v. technical) versus asset allocation.

- define, explain, discuss and critically appraise relevant subject issues in individual and group efforts.

- write well-constructed essays using well-balanced arguments;

**SYLLABUS**

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Based on a collection of articles from both academic and practitioner orientated journals covering the areas mentioned in 'subject mastery' below.

### COURSE RELATIONSHIPS

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<tr>
<th>Course Code</th>
<th>Level</th>
<th>Title</th>
<th>School</th>
<th>Type</th>
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<td>C39CE</td>
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<td>Managing Corporate Value</td>
<td>School of Mgmt &amp; Languages</td>
<td>Pre-Requisite</td>
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<td>C39SN</td>
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<td>Financial Derivatives</td>
<td>School of Mgmt &amp; Languages</td>
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### LOCATION AND ASSESSMENT METHODS

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