**B.Sc. & B.Sc. (Hons) with Major in Quantitative Finance**

**Graduation Requirements for students admitted in AY2013/14**

To be awarded a **B.Sc. or B.Sc. (Hons) with primary major in Quantitative Finance**, in addition to the University and Faculty requirements, a candidate must satisfy the following:

<table>
<thead>
<tr>
<th>Module Level</th>
<th>Major Requirements</th>
<th>Level MCs</th>
<th>Cumulative Major MCs</th>
</tr>
</thead>
</table>
| 1000         | 1. Pass all the following modules:  
|              | • CS1010/CS1010E/CS1010S Programming Methodology  
|              | • CS1020/CS1020E Data Structures and Algorithms I  
|              | • ACC1002 Financial Accounting  
|              | • MA1101R Linear Algebra I  
|              | • MA1102R Calculus  
|              | • MA1104 Multivariable Calculus | 24 | 24 |
| 2000         | 2. Pass all the following modules:  
|              | • FIN2004 Finance  
|              | • MA2101/MA2101S Linear Algebra II  
|              | • MA2108/MA2108S Mathematical Analysis I  
|              | • MA2213 Numerical Analysis I  
|              | • MA2216/ST2131 Probability | 20–22 | 44–46 |
| 3000         | 3. Pass all the following modules:  
|              | • QF3101 Investment Instruments: Theory and Computation  
|              | • MA3269 Mathematical Finance I  
|              | • ST3131 Regression Analysis  
|              | 4. Pass two modules from the following:  
|              | • CS3230 Designs and Analysis of Algorithms  
|              | • MA3220 Ordinary Differential Equations  
|              | • MA3236 Nonlinear Programming  
|              | • MA3252 Linear and Network Optimisation  
|              | • MA3264 Mathematical Modelling  
|              | 5. Pass two modules from the following:  
|              | • FIN3101 Corporate Finance  
|              | • FIN3103 Financial Markets  
|              | • FIN3117 Bank Management  
|              | • FIN3118 Financial Risk Management | 28 | 72–74 |
### Modular Credit Cumulative Table

<table>
<thead>
<tr>
<th>Requirements</th>
<th>B.Sc.</th>
<th>B.Sc. (Hons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Requirements</td>
<td>20 MC</td>
<td>20 MC</td>
</tr>
<tr>
<td>Faculty Requirements</td>
<td>12 MC*</td>
<td>12 MC*</td>
</tr>
<tr>
<td>Major Requirements</td>
<td>72-74 MC</td>
<td>104-106 MC</td>
</tr>
<tr>
<td>Unrestricted Free Electives</td>
<td>16-14 MC</td>
<td>24-22 MC</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120 MC</strong></td>
<td><strong>160 MC</strong></td>
</tr>
</tbody>
</table>

*Up to 4 MCs of Faculty requirements of the total of 16 MCs required for the B.Sc. (Hons.) programme are fulfilled through the reading of MA/CS modules within the major.

Students of the B.Sc. and B.Sc. (Hons.) programmes are required to fulfil the remaining 12 MCs of Faculty requirements from any three (3) of the following subject groups: Chemical Sciences, Life Sciences, Physical Sciences and Multidisciplinary & Interdisciplinary Sciences, but not from the following subject groups: Computing Sciences and Mathematical & Statistical Sciences.

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