

Module Documentation



STAT06002

Quantitative Techniques

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STAT06002

Quantitative Techniques

| | | | |
|---------------|-------------------------|-------------|----------------|
| Short Title | Quantitative Techniques | | |
| Full Title | Quantitative Techniques | | |
| Attendance | N/A | Discipline | 462 STATISTICS |
| Coordinator | Clare OGrady | Department | Business |
| Official Code | STAT06002 | NFQ Level | 06 |
| | | ECTS Credit | 05 |

Module Description

This objective of this module is to develop an appreciation and understanding of how various quantitative techniques can be modelled to facilitate problem solving, business decision making and implementing better management in the organization.

Learning Outcomes

On completion of this module the learner will/should be able to

1. Demonstrate the use of financial mathematics, measures of central tendency and correlation analysis in business.
2. Apply moving averages, regression analysis and exponential smoothing in forecasting.
3. Demonstrate the use of pert charts for planning and managing a project.
4. Demonstrate practical competence in the use of Microsoft excel and Microsoft project.

Teaching and Learning Strategies

This module will be delivered in practical computer laboratory sessions.

Assessment Strategies

100% Continuous Assessment

Repeat Assessment Procedures

2 hour repeat practical exam

Module Dependencies

Prerequisite Modules

Business Statistics Computer Information Systems 2 Or equivalent module

Corequisite Modules

None

Incompatible Modules

None

Indicative Syllabus

Indicative Syllabus Content:**Forecasting methodologies including 'exponential smoothing: (20%)****Correlation analysis: (10%)****PERT planning technique: (20%)****Pareto analysis: (10%)****Investment appraisal: (10%)****Computer applications of techniques: (30%)**

- Application of spreadsheet functions
- Correlation
- Regression
- Filters, grouping and ranking
- Standard deviation
- Confidence limits
- Investment appraisal functions
- Computer graphics to pictorially communicate tables of data
- Introduction to Microsoft Project.

The module will be delivered by a combination of lectures and laboratory based sessions.

CourseWork / Assessment Breakdown

| | |
|------------------------------------|-------|
| CourseWork / Continuous Assessment | 100 % |
|------------------------------------|-------|

Coursework Assessment Breakdown

| Description | Outcome Assessed | % of Total | Assessment Week |
|------------------|------------------|------------|-----------------|
| Class Assessment | 1,2,3,4 | 100 | OnGoing |

End Exam Assessment Breakdown

| Description | Outcome Assessed | % of Total | Assessment Week |
|-------------|------------------|------------|-----------------|
|-------------|------------------|------------|-----------------|

ACCS Mode Workload

| Type | Location | Description | Hours | Frequency | Avg Wkly Wrkld |
|------|----------|-------------|-------|-----------|----------------|
|------|----------|-------------|-------|-----------|----------------|

Total Average Weekly Learner Workload 0.00 Hours

Open Learning Mode Workload

| Type | Location | Description | Hours | Frequency | Avg Wkly Wrkld |
|------|----------|-------------|-------|-----------|----------------|
|------|----------|-------------|-------|-----------|----------------|

Total Average Weekly Learner Workload 0.00 Hours

Distance Learning Mode Workload

| Type | Location | Description | Hours | Frequency | Avg Wkly Wrkld |
|------|----------|-------------|-------|-----------|----------------|
|------|----------|-------------|-------|-----------|----------------|

Total Average Weekly Learner Workload 0.00 Hours

Part Time Mode Workload

| Type | Location | Description | Hours | Frequency | Avg Wkly Wrkld |
|------|----------|-------------|-------|-----------|----------------|
|------|----------|-------------|-------|-----------|----------------|

Total Average Weekly Learner Workload 0.00 Hours

Full Time Mode Workload

| Type | Location | Description | Hours | Frequency | Avg Wkly Wrkld |
|----------------------|---------------|-------------|-------|-----------|----------------|
| Lecture | Not Specified | Lecture | 2 | Weekly | 2.00 |
| Laboratory Practical | Not Specified | Laboratory | 1 | Weekly | 1.00 |

Total Average Weekly Learner Workload 3.00 Hours

Online Learning Mode Workload

| Type | Location | Description | Hours | Frequency | Avg Wkly Wrkld |
|------|----------|-------------|-------|-----------|----------------|
|------|----------|-------------|-------|-----------|----------------|

Total Average Weekly Learner Workload 0.00 Hours

Module Resources

Module Book Resources

None

Module Alternate Book Resources

None

Module Other Resources

None

Module URLs

None

Additional Information

None

ISBN BookList

Book Details

Louise Swift 2010 *Quantitative Methods: For Business, Management and Finance* Palgrave Macmillan

ISBN-10 0230218245 ISBN-13 9780230218246

Clare Morris 2008 *Quantitative Approaches in Business Studies* Financial Times Management

ISBN-10 0273708899 ISBN-13 9780273708896

Mik Wisniewski 2010 *Quantitative Methods for Decision Makers with MathXL (5th Edition)* Prentice Hall

ISBN-10 0273739468 ISBN-13 9780273739463

Les Oakshott 2012 *Essential Quantitative Methods: For Business, Management and Finance* Palgrave Macmillan

ISBN-10 0230302661 ISBN-13 9780230302662

Andre Francis 2004 *Business Mathematics and Statistics* Cengage Learning EMEA

ISBN-10 1844801284 ISBN-13 9781844801282

Microsoft Official Academic Course 2013 *Microsoft Office 2013* Wiley

ISBN-10 0470133066 ISBN-13 9780470133064

Approval Information

School Approval by Deirdre Lusby on 30-04-2014

Academic Council on 02-04-2015

Programme Membership

| Code | Intake Year | Programme Title |
|--------------|-------------|--|
| GA_BINAG_H08 | 201500 | Bachelor of Arts (Honours) in Information Systems Management |
| GA_BADIG_B07 | 201500 | Bachelor of Business in Administration and Information Systems |
| GA_BBUAG_H08 | 201500 | Bachelor of Business (Honours) |
| GA_BBUSG_B07 | 201500 | Bachelor of Business |