

## Decision Support A

|                |                                       |
|----------------|---------------------------------------|
| Module Code:   | OIM6001-A                             |
| Academic Year: | 2018-19                               |
| Credit Rating: | 10                                    |
| School:        | School of Management                  |
| Subject Area:  | Operations and Information Management |
| FHEQ Level:    | FHEQ Level 6                          |
| Module Leader: | Dr Mohammad Abdi                      |

Additional Tutors:

Pre-requisites:

Co-requisites:

### Contact Hours

| Type                    | Hours |
|-------------------------|-------|
| Lectures                | 12    |
| Tutorials               | 3     |
| Laboratory              | 3     |
| Directed Study          | 80.5  |
| Examinations DO NOT USE | 1.5   |

### Availability Periods

| Occurrence | Location/Period                                                         |
|------------|-------------------------------------------------------------------------|
| ONA        | College of Banking and Financial Studies, Oman / Semester 1 (Sep - Jan) |
| IGA        | The Institute of Integrated Learning in Management (IILM) (Gurgaon) /   |
| IMA        | The Institute of Integrated Learning in Management (IILM) / Semester 1  |
| BDA        | University of Bradford / Semester 1 (Sep - Jan)                         |

### Module Aims

To develop knowledge, understanding and skills in the application of quantitative methods to managerial decision making.

## Outline Syllabus

Decision making under uncertainty without probabilities.

Decision Making/Modelling.

Selected types of Linear Programming (LP) for decision support.

Integer programming. Project management (PERT schedule).

## Module Learning Outcomes

*On successful completion of this module, students will be able to...*

- 1 explain and illustrate selected methods by which quantitative data can be modelled to assist managerial decision making; describe some of the common difficulties which are encountered in the decision support process.
- 2 demonstrate their ability to analyse decision situations of a complexity appropriate to this module, and to arrive at a recommendation for action.
- 3 select and implement appropriate analytical frameworks for a decision situation provided, and interpret and manipulate the available data.

## Learning, Teaching and Assessment Strategy

The module is delivered in lectures and tutorials. Lectures will give new concepts and practice examples set are intended to reinforce the new ideas and illustrate their relevance. Example classes will provide a forum for the tutor and you to examine together the practical examples set and try to resolve them. These will be held in tutorials and computer laboratories with oral feedback. In the tutorial sessions, practical applications of decision problems are used. All teaching is supported by information supplied on Blackboard, the virtual learning environment. Learning outcomes are assessed by a final exam (all learning outcomes) and coursework: decision modelling and analysis for a given decision problem in operations management through using an appropriate technique (all learning outcomes).

## Mode of Assessment

| Type      | Method                    | Description                            | Length    | Weighting | Final Assess' |
|-----------|---------------------------|----------------------------------------|-----------|-----------|---------------|
| Summative | Examination - closed book | Examination closed book                | 1.5 hours | 70%       | Yes           |
| Summative | Coursework                | Individual project of up to 1000 words | 0 hours   | 30%       | No            |

## Legacy Code (if applicable)

MAN0503M

### **Reading List**

To view Reading List, please go to [rebus:list](#).