Description: Supply Chain Network Design

Subject   Cat-nbr   Class   Term   Mode   Units   Campus
MGT       8005      66770   2, 2007 WEB     1.00    Toowoomba

Academic group: FOBUS
Academic org: FOB004
Student contribution band: 2
ASCED code: 080301

STAFFING
Examiner: Mehryar Nooriafshar
Moderator: Latif Al-Hakim

OTHER REQUISITES
Students are required to have access to a personal computer, e-mail capabilities and Internet access to USQConnect. Current details of computer requirements can be found at http://www.usq.edu.au/business/aboutfob.htm

SYNOPSIS
Supply Chain Networks are the essential "glue" that bind supply chains and ensure efficient and effective flow of materials and information. Typically, members will include suppliers, manufacturers, wholesalers, distributors, retailers, and most importantly, customers. Large amounts of capital can be tied up in factories, warehouses, distribution centres, retail outlets, wholesalers, distributors, and retailers. Network configuration deals with many issues including physical movement, organisational behaviour, information technology and operations research. This course will take a strategic approach to network design and introduce some of the leading edge techniques that will facilitate practical network development.

OBJECTIVES
The course objectives define the student learning outcomes for a course. The assessment item/s that may be used to assess student achievement of an objective is/are shown in parentheses after each objective. On successful completion of this course, students should be able to:

1. discuss the objectives, issues and functions of networks (Literature Survey, Report, Examination)
2. apply appropriate methodology to enhance location decisions (Literature Survey, Report, Examination)
3. apply forecasting methodologies to reduce costs and improve service (Literature Survey, Report, Examination)
4. recognise the value of MRP, DRP and ERP in supply chain development and the significance of process mapping (Literature Survey, Report, Examination)
5. discuss the significance of and apply process mapping (Literature Survey, Report, Examination)
6. explain value from the customers perspective (Literature Survey, Report, Examination)
7. evaluate popular and emerging techniques that enhance network design (Literature Survey, Report, Examination).

TOPICS

<table>
<thead>
<tr>
<th>Description</th>
<th>Weighting (%)</th>
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</thead>
<tbody>
<tr>
<td>1. Network design 1</td>
<td>30.00</td>
</tr>
<tr>
<td>1.1. Supply chain relationships</td>
<td></td>
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<tr>
<td>1.2. Process mapping</td>
<td></td>
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<td>1.3. Materials flow</td>
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<td>2. Network design 2</td>
<td>30.00</td>
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<tr>
<td>2.1. Sourcing and outsourcing</td>
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<td>2.2. Collaboration</td>
<td></td>
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<tr>
<td>2.3. Customer-supplier integration</td>
<td></td>
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<tr>
<td>3. Warehousing</td>
<td>20.00</td>
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<tr>
<td>3.1. Warehousing</td>
<td></td>
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<tr>
<td>3.2. Material handling, computerisation and packaging</td>
<td></td>
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<tr>
<td>4. Logistics strategies</td>
<td>20.00</td>
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<tr>
<td>4.1. Global logistics strategies</td>
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<tr>
<td>4.2. The strategic logistics plan</td>
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TEXT and MATERIALS required to be PURCHASED or ACCESSED

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at http://bookshop.usq.edu.au click 'Semester', then enter your 'Course Code' (no spaces).

Online students do not have access to hardcopy Library material and will be expected to purchase any set textbooks. Textbooks may be purchased through the USQ Bookshop web site: http://bookshop.usq.edu.au/


**REFERENCE MATERIALS**

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

**STUDENT WORKLOAD REQUIREMENTS**

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>Directed Study</td>
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**ASSESSMENT DETAILS**

<table>
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<tr>
<th>Description</th>
<th>Marks out of</th>
<th>Wtg(%)</th>
<th>Due date</th>
</tr>
</thead>
<tbody>
<tr>
<td>LITERATURE SURVEY</td>
<td>15.00</td>
<td>15.00</td>
<td>17 Sep 2007</td>
</tr>
<tr>
<td>REPORT</td>
<td>35.00</td>
<td>35.00</td>
<td>22 Oct 2007</td>
</tr>
<tr>
<td>2 HOUR EXAMINATION</td>
<td>50.00</td>
<td>50.00</td>
<td>END S2 (see note 1)</td>
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</table>

**NOTES**

1. The examination is scheduled to be held in the end-of-semester examination period. Students will be advised of the official examination date after the timetable has been finalised.

**IMPORTANT ASSESSMENT INFORMATION**

1. Attendance requirements:
   There are no attendance requirements for this course. However, it is the students’ responsibility to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.

2. Requirements for students to complete each assessment item satisfactorily:
   To satisfactorily complete an individual assessment item a student must achieve at least 50% of the marks. (Depending upon the requirements in Statement 4 below, students may not have to satisfactorily complete each assessment item to receive a passing grade in this course.)

3. Penalties for late submission of required work:
   If students submit assignments after the due date without prior approval of the examiner, then a penalty of 5% of the total marks gained by the student for the assignment may apply for each working day late up to ten working days at which time a mark of zero may be recorded.

4. Requirements for student to be awarded a passing grade in the course:
   To be assured of receiving a passing grade a student must achieve at least 50% of the total weighted marks available for the course.

5. Method used to combine assessment results to attain final grade:
The final grades for students will be assigned on the basis of the aggregate of the weighted marks obtained for each of the summative assessment items in the course.

6 Examination information:
This is a restricted examination. Candidates are allowed access to specific materials during the examination. The only materials that candidates may use in the restricted examination for this course are: writing materials (non-electronic and free from material which could give the student an unfair advantage in the examination); calculators which cannot hold textual information (students must indicate on their examination paper the make and model of any calculator(s) they use during the examination).

7 Examination period when Deferred/Supplementary examinations will be held:
Any Deferred or Supplementary examinations for this course will be held during the next examination period.

8 University Regulations:
Students should read USQ Regulations 5.1 Definitions, 5.6 Assessment, and 5.10 Student Academic Misconduct for further information and to avoid actions which might contravene university regulations. These regulations can be found at http://www.usq.edu.au/corporateservices/calendar/part5.htm. Students should also read the Faculty of Business Policies and Procedures which can be found at http://www.usq.edu.au/business/aboutfob.htm.

ASSESSMENT NOTES

1 Assignments: (i) The due date for an assignment is the date by which a student must despatch the assignment to the USQ. The onus is on the student to provide proof of the despatch date, if requested by the examiner. (ii) Students must retain a copy of each assignment submitted for assessment. This must be produced within 24 hours if required by the examiner. (iii) In accordance with university policy, the examiner may grant an extension of the due date of an assignment in extenuating circumstances.

2 Course weightings: Course weightings of topics should not be interpreted as applying to the number of marks allocated to questions testing those topics in an examination paper. The examination may test material already tested in assignments.

3 Deferred work: Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment or to sit for an examination at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. One of the following temporary grades may be awarded: IDS (Incomplete - Deferred Examination); IDM (Incomplete Deferred Make-up); IDB (Incomplete - Both Deferred Examination and Deferred Make-up).

OTHER REQUIREMENTS

1 Learning resources: Prescribed texts and materials (see above); recommended reference materials (see above); and course Website accessible via USQConnect.