

**SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA  
(LECTURE PLAN)**

Subject: **Construction Procurement and Inventory Management (MBEM 215)**

Class: MBEM, III Semester

Faculty: Dr. M. Kranti Kumar  
Internal Marks: 50

Dept: Architecture  
External Marks: 50

Number of Hours:03  
Total Marks: 100

**Objective:** The intent is to disseminate knowledge about Procurement Management Processes with emphasis on consulting services. The procurement could also include design stage services. During the “Bid and Award Phase” of the project life cycle in different project types in terms of organizational settings, contractual arrangements and building typologies. In addition, the course covers the monitoring and control processes. The course includes procurement of equipment supplies.

S.NO	DATE	TOPIC OF CLASS LECTURE & DISCUSSION	REMARKS
1	Week 1	Introduction to Construction Procurement and Inventory Management and basic discussion.	Lecture
2	Week 2	<b>Project procurement management process</b> <ul style="list-style-type: none"> <li>➤ Study of procurement guidelines of international institutions</li> <li>➤ Preparation of contract documents (RFP, RFQ)</li> <li>➤ Pre-qualification of contractors</li> </ul>	Lecture
3	Week 3	<ul style="list-style-type: none"> <li>➤ Evaluation of technical and financial bid proposals</li> <li>➤ Negotiation and award</li> <li>➤ Overview of dispute resolution mechanisms</li> </ul>	Lecture
4	Week 4	Holiday	
5	Week 5	<b>Contracts for procurement of professional services</b> <ul style="list-style-type: none"> <li>➤ Selection of professionals for professional services (Design, Project Management services)</li> <li>➤ Fee structures and contractual conditions</li> <li>➤ Joint ventures of professional teams</li> </ul>	Lecture
6	Week 6	<ul style="list-style-type: none"> <li>➤ Norms for engagements of international Consultants; Performance guarantees</li> <li>➤ Bank guarantees and other fiscal aspects</li> <li>Project delivery systems</li> </ul>	Lecture
7	Week 7	<ul style="list-style-type: none"> <li>➤ <b>INTERNAL TEST/PRESENTATION</b></li> </ul>	Lecture
8	Week 8	<b>Procurement procedures</b> <ul style="list-style-type: none"> <li>➤ Procurement procedures for various supplies, equipment, machineries</li> <li>➤ Warrantees and tax issues</li> <li>➤ Fiscal aspects of supplies</li> <li>➤ Material Management</li> </ul>	Lecture
9	Week 9	<b>MID -TERM</b>	

10	Week 10	<ul style="list-style-type: none"> <li>➤ Supply Chain Management</li> <li>➤ Procurement strategies and purchase procedures</li> <li>➤ Inventory control and management</li> <li>Responsibilities of project management organization</li> </ul>	Lecture
11	Week 11	<ul style="list-style-type: none"> <li>➤ Procurement of Project Management services</li> <li>➤ Standard PMC consultancy agreement forms</li> <li>➤ Code of professional practice</li> <li>➤ Issues of inter-disciplinary interaction and coordination and professional ethics</li> </ul>	Lecture
12	Week 12	<b>Inventory Management</b> <ul style="list-style-type: none"> <li>➤ Inventory Control techniques</li> <li>➤ EOQ</li> <li>➤ Periodic ordering</li> <li>➤ order point control</li> <li>➤ safety stock, stock outs</li> </ul>	Lecture
13	Week 13	<ul style="list-style-type: none"> <li>➤ Application of AC analysis in inventory control</li> <li>➤ Concept of (JIT)- Just in time management</li> <li>➤ Indices used for assessment of effectiveness of inventory management</li> </ul>	Lecture
14	Week 14	<b>Stores Management</b> <ul style="list-style-type: none"> <li>➤ Receipt and inspection</li> <li>➤ care and safety in handling</li> <li>➤ loss on storage</li> <li>➤ wastage</li> <li>➤ Bulk purchasing</li> <li>➤ site layout and site organization</li> <li>➤ scheduling of men</li> <li>➤ materials and equipment</li> </ul>	Lecture
15	Week 15	<b>Holiday</b>	-
16	Week 16	<b>INTERNAL TEST/PRESENTATION</b>	

#### **Tentative Break-up of Internal Assessment**

S. No.	Evaluation	Marks	Note
1	Internal test/ Presentation	15	1. Marks allotted at each stage is tentative 2. New stages or categories of evaluation may be included if and when the need arises
2	Mid Term Assessment	20	
3	Internal test/ Presentation	15	

#### **Reference Books**

1. Purchasing and Inventory Control- by K. S. Menon, Wheeler Publication.
2. Materials Management, P. Gopalkrishnan, Prentice Hall
3. Handbook of materials management, P. Gopalkrishnan, Sundershan, Prentice Hall.
4. Inventory Management, Lc. Jhamb, Everest Publications

Sd/-  
Dr.M.Kranti Kumar