

IF551: Project procurement systems**CREDITS = 5 (L=3, T=2, P=0)****M. Tech First year, 1st Semester****Teaching and Assessment Scheme:**

Teaching Scheme			Credits	Assessment Scheme				
L	T	P		Theory		Practical		Total Marks
			ESE	CE	ESE	CE		
3	2	0	5	70	30	30	20	150

Course Contents:

Unit No.	Topics	Teaching Hours
1	Introduction and procurement fundamentals The nature of value, The nature of projects and project management, The make-or-buy decision, The nature of outsourcing and its derivatives, Outsourcing and out-tasking, Transfer pricing issues impacting on outsourcing decisions, Privatization,	6
2	Project types and their procurement needs Project types, forms and phases – influencing procurement choice, Procurement choices, Writing and evaluating procurement proposals,	9
3	Introduction to procurement systems Types of Procurement Systems; Separated Procurement Systems; Integrated Procurement Systems; Management-Oriented Procurement Systems, Emerging Issues in Procurement Systems, Selection of Procurement Systems, Discretionary Procurement Systems	6
4	The role of business strategy in PM procurement Theories of the firm-influencing strategy and project procurement, Fundamental terms and definitions, Linking business strategy to procurement	6
5	E-business and project procurement Fundamentals of procurement using e-business, Forms of e-commerce and e-business, E-procurement drivers and inhibitors, E-procurement implementation, Legal, ethical and security issues Compatibility and interoperability issues – information Modelling, The role of IT/ICT portals in procurement, E-procurement trends and emerging themes, Seamless process integration and process outsourcing, Further reduction of traditional procurement activities, Comprehensive decision support	9
6	Management of infrastructure projects Project procurement management software packages such as “MS Project 2007 and Primavera Project Planner”, Project estimation, project planning, project scheduling, network analysis, project time reduction and optimization, resource leveling, project time, cost and finance management.	9

List of References:

- 1) D. Walker and S. Rowlinson, "*Procurement systems - A cross-industry project management perspective*", Spon, London, 2008.
- 2) D. Walker and K. Hampson, "*Procurement strategies - A relationship-based approach*", Blackwell Publishing, Oxford, 2003.
- 3) J. W. E. Masterman, "*An introduction to building procurement systems*", Taylor & Francis, London, 2002.
- 4) S. Rowlinson and P. McDermott, "*Procurement systems A guide to best practice in construction*", E&FN Spon, London, 1999.