[A-3]COURSE SYLLABUS

1. Course Description (Approximately 100 words)

Construction Management courses including construction operations and key project management skills. Critical path scheduling, durations, logic, resource leveling, and the calculation of costs. Typical contract formats: project planning with emphasis on legal aspects of various types of corporations and structure. Estimating, cash flows, equipment ownership with specific emphasis on labor, related costs and agreements. Cost control, materials management, and safety related topics will be presented.

2. Course Goals and Objectives (Approximately 100 words)

A student of the Construction Management major should be able to:
1. successfully apply business and management skills in positions within the construction industry.
2. apply technical skills and knowledge in mathematics, science, construction, and technology in support of planning, analyzing, and solving construction problems.
3. use industry resources including associations and organizations, professional publications, and governmental data to analyze, evaluate, and apply current trends within the industry.

3. Textbook (Title, Author, Publisher, Year of Publication, etc.)

Construction Management Fundamentals (McGraw-Hill Series in Civil Engineering)Sep 12, 2008 by Clifford J. Schexnayder and Christine M. Fiori Doctor

4. Reference

Construction Management JumpStart: The Best First Step Toward a Career in Construction Management Apr 30, 2010 by Barbara J. Jackson

5. Course Requirements and Grades

CAT 30%
EXAM 70%

6. Course Calendar

Week	Main Content
1	Introduction – Project Life Cycle – Major Types of construction
2	Selection of professional services – Construction contractors
3	Financing of constructed facilities – Legal &Regulatory requirements – Role
4	Development of project plan, objective and conception
5	Programming – Scheduling –Project Organization –Project budget fund flow
6	Introduction – Labour Productivity – Factors affecting job site productivity
7	Materials Management – Material procurement & Delivery
8	MID-TERM EXAM
9	Inventory control – Plant & Equipment management
10	Contracts:
11	Introduction – Types of Contract – Contract document – Specifications
12	Important conditions of contract –Tender and tender document,Deposits by t
13	NETWORK ANALYSIS: Introduction – Basic concepts of network analysis –
14	FINAL EXAMINATION