Course Title: Project Management (**Elective Course**)

Course Code: OTM-843

Objectives: Our graduates will develop specialized knowledge of the field.

• Our students will be able to analyze the key concepts in the field.

To enable graduates to adopt a global mindset and develop the ability to

compare issues from global and local context.

To teach students to communicate effectively.

To ensure students understand the value of ethics in research and adhere to

ethical standards while conducting research.

Learning Outcomes:

Upon completion of this course, the student should be able to:

• Describe the generally recognized framework and good practices of project

management within the frameworks of the project management lexicon.

Analyze organizational goals and projects through multiple techniques such

as capacity planning, scheduling and financial management.

Deliver a well-formed presentation to effectively communicate the topic of

research.

• Synthesize a well-organized and professional document with appropriate

tools.

Contents:

Introduction to Project Management

Project Lifecycle & Organizational Project Management

Project Scope Management: Designing work; breakdown structures (WBS); WBS

control; methodologies Project Integration; Project Charter; Teams & Group decision

making.

Project Portfolio Management: Brainstorming Methods; AHP; Payback methods & NPV; Breakeven analysis; Budgeting & Control

Payback methods & NPV; practice problems; AHP example

Project scheduling: Activity sequencing, Network Techniques, Critical path / Crashing, Fast Tracking

Capacity Planning: Resource Management; Resource Constrained; Scheduling; Project Monitoring & Evaluation Practice Problems.

Project Graphics: MS Project Software Reporting, Bar Chart, Logic Diagrams/Networks

Project Risk Management: Frameworks of risks; Measurement of risk; Risk management Vs disaster management.

Trade-Off Analysis in a Project Environment: Methodology for Trade-off Analysis; Industry Trade-off Preferences; Project Procurement management.

Recommended Book:

- Harold Kerzner, Project Management ASystem Approach to Planning,
 Scheduling, and Controlling, 10th ed
- Blank, Tarquin, Anthony, Engineering Economics
- Mario Vanhoucke, Project Management with Dynamic Scheduling
- Anderson & Sweeney, Quantitative Methods for Business, 12th Ed