# LOGO

# **Indian Institute of Management Kozhikode**

**Course Outline**

Course Title: Software Project Management

Credits : 2

Type :

Pre-Requisites : Nil

Term & Year : **2012-13**

Faculty : Prof. Anindita Paul

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## Introduction

Software project management deals with planning, monitoring and controlling software projects in organizations. Software project management is particularly challenging because of several factors including: (1) the rapid pace of technological changes occurring in the IT field, (2) the invisible nature of software, (3) the ever-present pressure to add new features and functionality to systems, and (4) the difficulty of managing the organizational changes that accompany most IT implementations. In spite of the advanced technology that surrounds computer-based information systems, software project management in most organizations is not very disciplined.

## Objective and Scope

This course leads to an understanding of the following:

* Characteristics of a software development process, players involved and associated challenges.
* Stages of the software development life cycle with emphasis on the agile development process
* Skills and techniques required for managers to successfully handle a software development process within an organization
* Concepts that needs to be kept in mind while handling a software development process

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Pedagogy:

Lectures, projects and assignments, quizzes

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Evaluation Scheme:

Project/ Assignments : 35%

Quiz : 15%

End term : 50%

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*Text Books:*

Bob Hughes, Mike Cotterell and Rajib Mall, “Software Project Management”, 5th edition, Tata McGraw Hill, 2011

*References:*

1. Dave W. Farthing’s Software Project Management at <https://www.comp.glam.ac.uk/staff/dwfarthi/projman.htm#methods>
2. Jack T. Marchewka . “Information Technology Project Management”, 3rd edition, Wiley  
   India, 2009.

**SESSION PLAN**

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| Session No. | Topic |
| 1-3 | Overview of SPM, Project Evaluation and Programme Management, Overview of Project Planning |
| 4-6 | Conceptualizing and Initializing a Software Project, Project Approach, Software Effort Estimation |
| 7-9 | Human-Side of Project Management, Agile Methodology |
| 10-12 | Activity Planning, Risk Management, Resource Allocation |
| 13-15 | Monitoring and Control, Working in Teams, Managing People in Software Environments, |
| 16-18 | Software Quality, Project Closure |