

The logo for iHACKERU PRO features a stylized 'i' followed by 'HACKERU' in a bold, sans-serif font. Below this, 'PRO' is written in a smaller font, and 'UPDATE NEEDED' is written in a white font inside a dark blue rectangular box. A small red circle with the number '1' is positioned to the right of the 'HACKERU' text.

**iHACKERU**<sup>1</sup>  
PRO UPDATE NEEDED



# Project Management

AC104

32

Academic Hours

# Project Management

## Outline

Project management is a branch of Management Science based on the design and control of projects with a high level of uncertain economic viability or risk.

A project is defined as an effort to produce a unique service or product within a limited amount of time. A project can also be defined as the harnessing of resources, modifications, and various production tools and systems, including human skill, to create a desired output.

The aims of project management include completion within the allotted time frame, fulfilling the project's objectives with the desired level of quality, remaining within the designated budget, and ensuring the client's satisfaction. Typical projects in organizations are often based on staying ahead of the competition, by improving company proficiency and efficiency.

The purpose of the course is to expose participants to the project life cycle, which includes the stages of characterization, building, economic resource allotment, risk management, schedule management, and more. Participants will learn how these and other stages can be performed through the use of tools such as MS Project.



### Target Audience

System analysts, project managers,  
team leaders & development managers



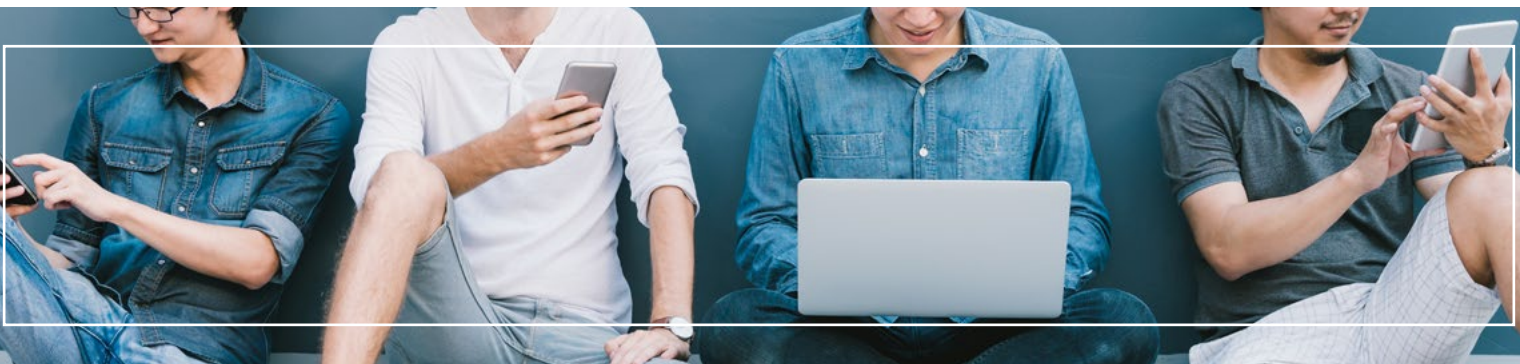
### Prerequisites

Basic operational knowledge  
of Windows OS



### Objectives

Provide and teach project management tools to enable participants to characterize, become familiar with, and study a project's life cycle in depth, Participants will be taught how to examine and understand complexities that may arise throughout a project and how they can be dealt with and resolved.





## Content

### Module 01

#### Project Life Cycle

- Project management
- The life cycle
- The positive approach to the task at hand
- The personnel involved in each stage

### Module 02

#### Project Management Challenges in the 21<sup>st</sup> Century

- Project management evolution
- The characteristics of 21<sup>st</sup> century project management
- Project manager qualifications
- The pressures of managing a project
- Tools for proper project management

### Module 03

#### Project Management Methodology

- PMBOK
- Studying the various aspects of project management in accordance with PMP PMBOK
- Contents
- Schedule
- Budget
- Quality
- Integration
- Communication and information

### Module 04

#### Project Planning – Content and Evaluation

- Planning principles – time, cost
- Planning and evaluation
- WBS
- Organization and management interfaces
- Detailed planning – Gantt charts and buffer control
- Change management

### Module 05

#### Risk Management

- What is risk management and ERM?
- Risk management methodology
- Risk identification and assessment
- Defining risk types
- Probability and intensity
- Alternative ways of handling risk management
- Organization processes within risk management
- Practical exercise



**Staying ahead of the competition**, by improving company proficiency and efficiency”



## Content

### Module 06

## Project Control

- Control types
- Tracking and control tools
- Control routine management
- Handling critical paths and risks

### Module 07

## MS Project

- Purpose and features
- Gantt chart preparation
- Usage of WBS in Gantt charts
- The critical path
- Performance updating and advancement
- Basic vs. updated version control
- Practical exercise

### Module 08

## Additional Topics

- PMO role and goals
- Investigation and conclusions for study
- Administrative tools and routine administration – studies and reports for management, conducting status meetings





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[info@hackerupro.com](mailto:info@hackerupro.com)



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