

Course Syllabi

1. TICS-00042 PROJECT MANAGEMENT

2. 96 credits hours.

3. Bibliography

- A Guide to the Project Management Body of Knowledge (PMBOK® Guide), Project Management Institute, 2021
- The Age of Agile: How Smart Companies Are Transforming the Way Work Gets Done., Stephen Denning, 2018

4. Specific Course Information

- a. This subject generally informs students of the fundamental principles for project management, presenting the methodology developed by the PMBook and agile methodologies.
- b. Prerequisites:
 - TICS-00035 DATABASES I: DESIGN AND PRINCIPLES
 - TICS-00053 COMPUTER ORGANIZATION AND ARCHITECTURE
 - MAES-00123 OPERATIONS RESEARCH
 - TICS-00050 PROGRAMMING LANGUAGES
 - MAES-00130 LINEAR SYSTEMS AND SIGNALS

5. Learning Objectives of the Course

- a. This subject generally informs students of the fundamental principles for project management, presenting the methodology developed by the PMBook and agile methodologies.
 - Understand the important concepts on project management.
 - Develop the complete planning of a project
 - Evaluate the most common characteristics of successful projects
 - Know the agile methodologies of project management
- b. Learning Outcomes
 - Estimates the working time of the project
 - Understands how to manage the control and closure of a project
 - Identify risk factors that may affect a project
 - Understands project management as the key to project management control in any domain
 - Understands the relationship between project definition and planning
 - Defines a project correctly

6. Course Topics

- Introduction to pmbok project management and foundations
- Project environment and organizational influence
- Exploring agility in project management
- Integration management and project scope
- Timetable and cost management
- Quality management and resources
- Risk management and stakeholders commitment
- Practical application of project management in computer engineering