

## Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
IND496	Research Methods in Industrial Engineering	7	3	0	0	3	4

Prerequisites	
Admission Requirements	

Language of Instruction	French
Course Type	Compulsory
Course Level	Bachelor Degree
Objective	<p>Objectives of the course Research Methods in Industrial Engineering,</p> <ul style="list-style-type: none"> <li>- To provide students with the ability to conduct research on academic and industrial subjects in various databases.</li> <li>- To provide students with technical reporting, technical writing and presentation skills.</li> <li>- To provide students with the necessary knowledge on project management, occupational safety, business ethics, sustainability and entrepreneurship.</li> <li>- To increase students' awareness of current problems and how these problems can be solved with Industrial Engineering methods.</li> <li>- To provide students with the ability to work effectively in disciplinary and multidisciplinary teams and in different roles.</li> <li>- To provide students with the necessary equipment and infrastructure for their final projects.</li> </ul>
Content	<p>Week 1: Introduction of the course - Giving preliminary information about academic career, industrial career and graduation projects</p> <p>Week 2: Introduction of the course project - Giving examples of projects (Discussing course project topics, groups and possible competitions)</p> <p>Week 3: Finalization of the project topics and possible competitions - Introducing the final project topics of the lecturers</p> <p>Week 4 Seminar: Occupational Safety and Health - Sustainability - Social Responsibility</p> <p>Week 5 Seminar: Agile Project Management</p> <p>Week 6: Fundamentals of research - Research techniques - Matching students and professors for the final paper</p> <ul style="list-style-type: none"> <li>o Literature review and identification of the research problem</li> <li>o Reading and summarizing the sources obtained</li> <li>o Determination of research and analysis methods</li> <li>o Data collection and analysis</li> <li>o Interpretation of findings</li> <li>o Reporting the research process and findings</li> </ul> <p>Week 7 Seminar: Agile Project Management and Applications</p> <p>Week 8 Project interim report presentations</p> <p>Week 9 Midterm Exam</p> <p>Week 10 Graduation projects and coordination</p> <p>Week 11 Seminar: Entrepreneurship and the Game Industry</p> <p>Week 12 Seminar: Engineering, Professional and Academic Ethics</p> <p>Week 13 Course project presentations</p> <p>Week 14 Course project presentations</p>
References	Presentation and sharing files of the guests who attended the course to give seminars.

## Theory Topics

<b>Week</b>	<b>Weekly Contents</b>
1	Introduction of the course - Giving preliminary information about academic career, industrial career and graduation projects
2	Introduction of the course project - Giving examples of projects (Discussing course project topics, groups and possible competitions)
3	Finalization of the project topics and possible competitions - Introducing the final project topics of the lecturers
4	Seminar: Occupational Safety and Health - Sustainability - Social Responsibility
5	Seminar: Agile Project Management
6	Fundamentals of research - Research techniques - Matching students and professors for the final paper
7	Seminar: Agile Project Management and Applications
8	Project interim report presentations
9	Midterm Exam
10	Graduation projects and coordination
11	Seminar: Entrepreneurship and the Game Industry
12	Seminar: Engineering, Professional and Academic Ethics
13	Course project presentations
14	Course project presentations