



Course Title	Transportation Engineering
Course Unit Code	CEE 460
Type of Course Unit	Compulsory
Level of Course Unit	1 st cycle
Year of Study	4 th year
Semester when the Course Unit is Delivered	Spring
Number of ECTS Credits Allocated	5.0
Name of Lecturer(s)	S. Christodoulou
Learning Outcomes of the Course Unit	<p>Students should be able to:</p> <ol style="list-style-type: none">1. Apply the physical laws of motion and energy as they relate to calculations of resistances to motion, power, and energy requirements.2. Develop the capacity of various modes of transportation.3. Apply various techniques for analysis and planning for transportation services.4. Understand the demand-supply interactions.5. Evaluate transportation alternatives.6. Develop demand estimates for transportation systems.7. Position and design transportation facilities.
Prerequisites	There are no prerequisites for this course.
Co-requisites	There are no prerequisites for this course.
Course Contents (Application of physical laws of motion and energy as they relate to calculations of resistances to motion, power, and energy requirements. Acceleration-deceleration limits. Capacity of various modes of transportation. Techniques of analysis and planning for transportation services. Demand-supply interactions. Evaluation of transportation alternatives. Integrated model systems. Demand estimates for transportation system. Location, design, and operations of transportation facilities. People participation in decision making; proposal writing.
Required Reading	N/A
Recommended Reading	N/A
Planned Learning Activities	Term Project, Case Studies and Assignments
Teaching Methods	Lectures (3 hours/week)
Assessment Methods and Criteria	Term project, final exam & presentation, midterm exam and homework assignments
Language of Instruction	Greek
Work Placement(s)	N/A