



ESKİŞEHİR OSMANGAZI UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES



RAIL SYSTEMS DEPARTMENT MSc PROGRAMME LEARNING OUTCOMES

LO1	Ability to access information in Rail Systems in a scientific manner in depth and in width as well as to assess, interpret and use the information obtained.
LO2	Detailed knowledge of the state-of-the-art techniques and methods applicable to the Rail Systems and their limitations.
LO3	Ability to deduce additional information from indefinite, limited or incomplete data using scientific methods and to put this information into practice as well as to incorporate data from different disciplines.
LO4	Awareness of the new and developing practices in Rail Systems and ability to study and learn such practices whenever needed.
LO5	Ability to recognize and formulate problems in Rail Systems and to develop methods to solve such problems utilizing innovative methods.
LO6	Ability to develop new or original ideas, to design complex systems or processes, and to come up with innovative/alternative solutions.
LO7	Ability to design and practice theoretical, experimental and simulative research tasks and to assess and analyze complex problems that are faced during the research process.
LO8	Ability to function effectively in multidisciplinary teams, to lead such teams and suggest solutions in such work environments; ability to work independently and take responsibility.
LO9	Ability to communicate in written and oral forms in a foreign language.
LO10	Ability to convey the method and results of the research in written or oral form to a national or international audience in the same field or in other fields in a clear and systematic way.
LO11	Knowledge of the social, environmental, health, safety and judicial dimensions of Rail Systems applications, knowledge of project management and workplace practices in the field as well as the awareness of limitations that such factors impose on the practices.
LO12	Awareness of societal, scientific and ethical values in collecting, interpreting, and publishing data and in other Professional activities.