

BMUH 516 Theory of Programming Languages (1)

Course Code:	BMUH 516
UTAA Credit (Theoretical-Laboratory hours/week):	3(3-0)
ECTS Credit:	6.0
Department:	Electrical and Computer Engineering
Language of Instruction:	English
Level of Study:	Graduate
Offered Semester:	Fall and Spring Semesters.

Course Objectives

The purpose of this course is to encourage the student to learn the concepts underlying the basis of programming languages and assess the applications of these concepts by various programming languages, having a comprehensive field of view in the field of programming languages.

Course Content

Programming paradigms and history, Language description and translation, Binding and scope, Data types, Subprograms, Program decomposition, Object oriented programming, Exception handling, Functional programming, Logical programming

Course Learning Outcomes

- 1- comment on the historical development of programming languages and evaluation criteria for programming languages
- 2- comment on various programming paradigms
- 3- comment on interpreter and compiler principles
- 4- assess properties of data types
- 5- apply structured programming
- 6- recognize and use functional programming languages
- 7- recognize and use logical programming languages