

Code	<b>BENG507</b>
Name	<b>Human Molecular Genetics</b>
Hour per week	3 (3+ 0)
Credit	3
ECTS	10
Level/Year	Graduate / Anytime
Semester	Fall, Spring
Type	Elective
Prerequisites	
Content	This lecture will introduce to students the basic concepts of human genetics at the molecular level. This courses will covers gene and heredity, mendelian genetics, pedigree analysis, genetics, human diseases, populations genetics, meiosis, gender determination, non-Mendelian genetics, mutations and recombination result in generating diversity. This course will also focus on Single nucleotide polymorphism, genomics and sequence ,regulation of gene expression in prokaryotes and eukaryotes. Moreover Human Molecular Genetics will encompass animal model for human diseases and genetic testing, gene therapy.