

<b>Title</b>	Bioinformatics		
<b>Code</b>	3MI09NAK34M		
<b>Prerequisites</b>			
<b>Description</b>	The aim of the course is (1) to study bioinformatic methods with relevant software applications in molecular biology; (2) to review biological, bibliographic databases; (3) to discuss computer aid sequence analysis; (4) to calculate and analyze similarity and dissimilarity expressed by distances; (5) to explore region detection methods; (6) to introduce molecular phylogenetic analysis, (7) to visualize trees; (8) to learn protein structure exploration and (9) learning the basics of the Perl		
<b>Lecturer</b>	Dr. András Ittzés, Dr. Márta Ladányi		
<b>Semester</b>	3rd, fall	<b>Contact hours/week</b>	1+4
<b>Level</b>	MSc	<b>ECTS</b>	5
<b>Teaching and Learning Methods:</b>			
<b>Reading:</b>	<b>Recommended literature:</b> -Mount, D.W. (2004): Bioinformatics: Sequence and Genome Analysis. Cold Spring Harbor, NY: Cold Spring Harbor Laboratory Press. 692 pp. ISBN 0-87969-712-1 -Attwood, T.K., Parry-Smith, D.J. (2003): Introduction to Bioinformatics. Fourth Indian reprint. Pearson Education Ltd. India. ISBN 81-7808-507-0		
<b>Assessment:</b>	<ul style="list-style-type: none"> <li>• project work</li> <li>• exam</li> </ul>		