

**FIRAT UNIVERSITY**  
**FACULTY OF SCIENCES**  
**DEPARTMENT OF BIOLOGY**  
**GRADUATE COURSE LIST**

<b>SEMESTER I</b>				
<b>Course Code</b>	<b>Course Title</b>	<b>Course Category</b>	<b>T+A+L</b>	<b>ECTS</b>
EBE5000	Scientific Research Methods in Education	Elective	3+0+0	6
EBE5005	Statistics Applications in Education	Elective	3+0+0	6
FBE1002	Special Studies on Thesis Subject	Elective	8+0+0	6
FBE7010	Doctoral Seminar	Elective	0+2+0	6
FBE7020	Doctorate Proficiency	Elective	0+0+0	24
FBE7030	Doctora Thesis	Elective	0+1+0	24
FBE7040	Advanced Statitics Applications in Educations	Elective	2+0+0	6
FBE7050	Application of Constructivist Teaching Model to Science Education	Elective	2+2+0	6
FBE7060	Industrial Applications in Science Education	Elective	3+0+0	6
FBE7080	Learning Difficulties and Misconceptions Encountered in Science Education	Elective	3+0+0	6
FBE7090	Developing Chemistry Projects in Science Education	Elective	3+0+0	6
FBE7110	Developing Biology Projects in Science Education	Elective	3+0+0	6
FBE7130	Meta Analysis in Science Education	Elective	3+0+0	6
FBE7140	Alternative Evaluation Approaches in Science Courses	Elective	3+0+0	6
FBE7150	Advanced Research Methods in Science Education	Elective	3+0+0	6
FBE7170	Reporting Quantitative and Qualitative Researches in Science Education	Elective	3+0+0	6
FBE7180	Current Researches in Physics Education	Elective	3+0+0	6
FBE7190	Current Researches in Chemistry Education	Elective	3+0+0	6
FBE7210	Experimental Science Teaching	Elective	3+0+0	6
FBE7230	Interdiscipline Approaches in Science Education	Elective	3+0+0	6
FBE7240	Development of Science Education and Its Philosophy	Elective	3+0+0	6
FBE7250	Science Education and Teaching Applications in Informal Learning Environments	Elective	3+0+0	6
FBE7260	Science Education and Human Healthy	Elective	3+0+0	6

FBE7270	Review and Analyses of Science Education Researches	Elective	3+0+0	6
FBE7280	Visual Learning in Science Education	Elective	3+0+0	6
FBE7290	Affective variables in Science Educaiton	Elective	3+0+0	6
FBE7300	Motivation Strategies in Science Education	Elective	3+0+0	6
FBE7320	International STEM STEAM E-STEAM Applications in Science	Elective	2+2+0	6
FBE7340	Life-Based Climatology Topics	Elective	3+0+0	6
FBE7350	Radioactivity, Radiation and Environment in Science	Elective	3+0+0	6
			<b>Total ECTS</b>	<b>216</b>
<b>SEMESTER II</b>				
<b>Course Code</b>	<b>Course Title</b>	<b>Course Category</b>	<b>T+A+L</b>	<b>ECTS</b>
FBE 626	Radioactivity, Radiation, and Environment in Science-II		3+0+0	6
FBE7070	Developing Physics Projects in Science Education		3+0+0	6
FBE7100	International Approaches in Science education		3+0+0	6
FBE7120	Science Teaching from Perspective of Nature of Science		3+0+0	6
FBE7160	Types of Dialogue in Science Courses and effects on Learning of them		3+0+0	6
FBE7200	Current Researches in Biology Education		3+0+0	6
FBE7220	Technology-assisted Learning Environment in Science Education		3+0+0	6
FBE7310	Science Teaching based on Model		3+0+0	6
FBE7330	Life-Based Astronomy Topics		3+0+0	6
			<b>Total ECTS</b>	<b>54</b>