



Tafila Technical University
College of Science
Department of Applied Physics



Advisory Plan for B.S.C. Degree in Applied Physics

First Academic Year_ Applied Physics Program							
The First Semester				The Second Semester			
Course Number	Course Name	NO. of Credit Hours	Pre-requisite	Course Number	Course Name	NO. of Credit Hours	Pre-requisite
0213105	Calculus 1	3	(1)	0213106	Calculus 2	3	0213105
0213101	General Physics 1	3	(2)	0213102	General Physics 2	3	0213101
0213107	General Chemistry 1	3	(3)	0213109	General Biology 1	3	None
0213115	Principles of Statistics 1	3	None	0205108	General Chemistry Lab. 1	1	0213107 ⁽⁴⁾
0213116	Principles of Statistics Lab. 1	1	0203131 ⁽⁴⁾	0213103	General Physics Lab. 1	1	0213101 ⁽⁴⁾
	Obligatory University Requirement	3			Elective University Requirement	3	
					Obligatory University Requirement	3	
Total		16		Total		17	

- (1) "High School Mathematics " or Prerequisite Calculus 0213098.
 (2) "High School Physics" or Prerequisite Physics 0213097.
 (3) "High School Chemistry" or Prerequisite Chemistry 0213099.
 (4) or concurrent.



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Second Academic Year_ Applied Physics Program

The First Semester				The Second Semester			
Course Number	Course Name	NO. of Credit Hours	Pre-requisite	Course Number	Course Name	NO. of Credit Hours	Pre-requisite
0213104	General Physics Lab. 2	1	0213102 ⁽⁵⁾	0202233	Modern Physics	3	0213102
0202242	General Physics 3	3	0213102	0202251	Mathematical Physics 1	3	0213106
0202211	Waves and Light	3	0213102	0202264	Waves and Vibrations Lab.	1	0202211
0212212	Geometrical Optics	3	0213102	0202262	Geometrical Optics Lab.	1	0212212
0202221	Electronics 1	3	0213102	0202263	Electronics Lab.	1	0213104 & 0202221
	Obligatory University Requirement	3			Elective University Requirement	3	
					Obligatory University Requirement	3	
					Obligatory University Requirement	3	
Total		16		Total		18	

(5) or concurrent.



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Third Academic Year_ Applied Physics Program

The First Semester				The Second Semester			
Course Number	Course Name	NO. of Credit Hours	Pre-requisite	Course Number	Course Name	NO. of Credit Hours	Pre-requisite
0202364	Intermediate Physics Lab.	2	0202233 & 0202242	0202325	Theory of Electromagnetism 1	3	0202251
0202314	Classical Mechanics	3	0202251	0202346	Thermal and Statistical Physics	3	0202242
0202352	Mathematical Physics 2	3	0202251	0202335	Quantum Mechanics 1	3	0202251
0202354	Computer Applications in Physics 1	3	0202251	0202357	Applications of Artificial Intelligence in Physics	3	0202354
	Elective Specialization Requirement	3			Elective Specialization Requirement	3	
	Elective Specialization Requirement	3			Obligatory University Requirement	3	
Total		17		Total		18	



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Fourth Academic Year_ Applied Physics Program

The First Semester				The Second Semester			
Course Number	Course Name	NO. of Credit Hours	Pre-requisite	Course Number	Course Name	NO. of Credit Hours	Pre-requisite
0202469	Training for Applied Physics Students ⁽⁶⁾	2	None	0202456	Research Project	2	0202469
0202438	Solid State Physics 1	3	0202335	0202465	Solid State Physics Lab.	2	0202438
0202436	Atomic and Molecular Physics	3	0202335	0202466	Atomic and Nuclear Physics Lab.	2	0202436 & 0202437
0202437	Nuclear Physics	3	0202335	0202425	Theory of Electromagnetism 2	3	0202325
	Elective Specialization Requirement				Elective Specialization Requirement	3	
	Obligatory University Requirement	3			Elective Specialization Requirement	3	
Total		17		Total		15	

(6) 9 field training hours per week to fulfill the training course (0202469) requirements (100 training hours).