

Department of Physics

UNDERGRADUATE COURSES

Curriculum for the Degree of Bachelor of Science (B.Sc.) in Physics,

Major: *Solid State Physics / Nuclear Physics*

COURSE CODE	COURSE TITLE	CREDITS
Semester I (Fall)		
1914101	Calculus 1	4
2010110	Basic Physics I	4
2110101	General Chemistry I	3
2010111	Basic Physics Lab. I	1
2110104	General Chemistry Lab. I	1
-	General Courses	4
Semester II (Spring)		
1914102	Calculus II	4
2010120	Basic Physics II	4
2010122	Basic Physics III	4
2010121	Basic Physics Lab. II	1
2010123	Basic Physics Lab. III	1
-	General Courses	3
Semester III (Fall)		
2010210	Analytical Mechanics I	3
2010214	Modern Physics	4
1914251	Differential Equations	3
2010412	Electronics	4
2010224	Physics Modern Lab.	1
-	General Courses	2
Semester IV (Spring)		
2010216	Math. Physics I	3
2010220	Analytical Mechanics II	3
2010212	Thermodynamics	4
1730150	Computer Science and Programming	3
2010413	Electronics Lab.	1
2010226	English Language for Physics Students	1
-	General Courses	1
Semester V (Fall)		
2010312	Math. Physics II	3
2010228	Quantum Mechanics I	3
2010310	Electromagnetism I	3
2010222	Statistical Mechanics	3
2410101	Workshop	1
-	General Courses	4
Semester VI (Spring)		
2010316	Quantum Mechanics II	3
2010320	Electromagnetism II	3
2014322	Nuclear Physics I	3
2012324	Solid State Physics I	3
2014323	Nuclear Physics Lab.	1
-	General Courses	4
Semester VII (Fall)		
2010410	Modern Optics	3
2010314	Relativity	3

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2012411	Optics Lab.	1
2012423	Crystallography	3
2014418	Semiconductor Devices	3
2014416	Reactor Physics I	3
2014420	Nuclear Physics II	3
-	General Courses	2

Semester VIII(Spring)

2016414	Elementary Particles	3
2010426	Computational Physics	3
2012417	Solid State Physics II	3
2012424	Superconductivity	3
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2014422	Reactor Physics II	3
2014415	Radiation Detectors	3

Elective Courses

20467	Vacuum Technology	3
2010480	Group Theory	3
2010432	Mathematical Physics III	3
2010277	Waves	3
2010319	History of Science	2
2016487	Particle Accelerators	2
2010474	Astrophysics	3
2014421	Nuclear Radiation Protection	2