



2020-2021

Subjects, units, and hours (First stage)

	Units Hours			ge	
Subject Name		Practical	Theoretical	Course code	Stage
Mechanics	3	0	3	PHYS102	
Arabic	2	0	2	PHYS103	
Human Rights	2	0	2	PHYS104	
Electricity	3	0	3	PHYS105	
Computer science I	3	2	2	COMP127	
Mathematics I	3	0	3	MATH129	
Practical Physics I (Mechanics ,Electricity)	3	6	0	PHYS106	
General Chemistry	3	2	2	CHEM131	St
Material Properties	3	0	3	PHYS107	
English	2	0	2	PHYS110	
Democracy	2	0	2	PHYS109	
Magnetism	3	0	3	PHYS108	
Computer science II	3	2	2	COMP128	
Mathematics II	3	0	3	MATH130	
Practical Physics II (Mechanics, electricity)	3	6	0	PHYS111	
Geology	3	2	2	GEO101	
	44	20	34	Total	





Subjects, units, and hours (Second stage)

Carle and No.	Units	Hours		C	ge
Subject Name		Practical	Theoretical	Course code	Stage
Thermodynamics	2	0	2	PHYS201	
Analog Electronics	3	0	3	PHYS202	
Geometrical Optics	2	0	2	PHYS203	
Modern Physics I	2	0	2	PHYS204	
Mathematics III	3	0	3	MATH229	
Astronomy I	2	0	3	PHYS205	
Practical Physics I	4.5	9	0	PHYS206	
(atomic, thermal, analog)				11115200	
Health Culture	1	0	1	PHYS111	2nd
Statistical Mechanics	2	0	2	PHYS207	21
Digital Electronics	3	0	3	PHYS208	
Geometrical Optics II	2	0	2	PHYS209	
Modern Physics II	2	0	2	PHYS210	
Mathematics IV	3	0	3	MATH230	
Astronomy II	2	0	3	PHYS210	
Practical Physics II	4.5	9	0	PHYS211	
(atomic, thermal, analog)				11115211	
Philosophy of Science	1	0	1	PHYS212	
	39	18	32	Total	





Subjects, units, and hours (Third stage)

	Units	Hours			ge
Subject Name		Practical	Theoretical	Course code	Stage
Analytical Mechanics I	3	0	3	PHYS301	
Mathematics and Modeling I	3	2	2	PHYS302	
Laser Physics	2	0	2	PHYS303	
Plasma Physics	2	0	2	PHYS304	
Crystallography	2	0	2	PHYS305	
Physical Optics I	2	0	2	PHYS306	
Practical Physics I	1.5	3	0	PHYS307	3rd
Analytical Mechanics II	3	0	3	PHYS308	~
Mathematic and Modeling II	3	2	2	PHYS309	-11
Laser Applications	2	0	2	PHYS310	
Molecular Physics	2	0	2	PHYS311	
Material Science	2	0	2	PHYS312	
Physical Optics II	2	0	2	PHYS313	
Practical Physics II	1.5	3	0	PHYS314	
A COLUMN	31	10	26	Total	





Subjects, units, and hours (Fourth stage)

Carle to at Norma	Units	Hours		Course and	ge
Subject Name		Practical	Theoretical	Course code	Stage
Quantum Mechanics I	3	0	3	PHYS401	
Electromagnetism I	3	0	3	PHYS402	
Nuclear Physics I	3	0	3	PHYS403	N
Solid State Physics I	3	0	3	PHYS404	19
Elective I (Solar Energy)	2	0	2	PHYS405	
Practical Physics I (Nuclear, Solid)	3	6	0	PHYS406	
Quantum Mechanics II	3	0	3	PHYS407	4
Electromagnetism II	3	0	3	PHYS408	4
Nuclear Physics II	3	0	3	PHYS409	7/
Solid State Physics II	3	0	3	PHYS410	
Elective II (Nano Physics)	2	0	2	PHYS411	
Practical Physics II (Nuclear, Solid)	3	6	0	PHYS412	
Project Research	2	0	2	PHYS413	
	36	12	30	Total	





Total units and hours required for graduation from the Physics Department for the four stages

Number of units	Numbe	r of hours	Number of hours	
	practical	Theoretical	rumber of nours	
44	20	34	First	
39	18	32	Second	
29	10	26	Third	
36	12	30	Fourth	
148	60	122	Total	
	1	182	Total	