

University of Baghdad

جامعة بغداد



First Cycle – Bachelor's degree (B.Sc.) – Physics

بكالوريوس علوم - علم الفيزياء



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1. **Mission & Vision Statement**

Vision Statement

The physicists and academic staff in the Department of Physics and Behavioral Sciences at the University of Baghdad believe that students understand physics through coursework, laboratory experiences, research, and fieldwork. The combination of didactic methods leads students to a balanced understanding of physicists' scientific methods to make observations and develop ideas. In addition, small classes within the physics program foster a close working relationship between faculty and students in an informal and nurturing atmosphere.

Mission Statement

The physicists and academic staff pursue a multifaceted mission at the University of Baghdad. The program seeks to provide all physics students with a basic knowledge of physicality and a deeper understanding of their chosen focus area in the physical sciences. Curriculum and counseling are designed to prepare graduates for future careers, whether they work as field physicists specializing in physical science, renewable energy physics, medical physics, industrial physics, agricultural physics, forensic physics, and artificial intelligence or pursue advanced science degrees. Physics or medical sciences. The Physics program also provides basic knowledge of the physical sciences to support the Applied Degree, Environmental Studies Degree, and Associate of Science Degree in Information Technology. In addition, physics courses provide a basic science lab experience for students seeking to complete general education requirements.

2. Program Specification

Programme code:	BSc-PHYS	ECTS	240
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

-The Department of Physics, the College of Science, aims since 1949 at the University of Baghdad for over sixty years to be an inexhaustible benefactor in disseminating science and solving many scientific dilemmas. Internationally reputed.

The graduating generations of the Department of Physics have inherited the flame of giving, illuminating the path of science for future generations and preserving their scientific, cultural, and heritage of the Department of Physics, which is characterized by the presence of a lifestyle, customs, and traditions of its own that differ from the rest of the departments in the college or the usual contexts in different departments and universities, where prevailing The atmosphere of the same family with its many generations within the interactions and dealings between the members of the department.

The Department of Physics is distinguished by its keeping pace with scientific progress and the latest scientific news in the whole world, as it holds many discussions, seminars, and conferences that deal with all and the latest developments in the broad physical sciences, not to mention the rest of science and other fields of culture to become a rich source of physical sciences and general culture.

Over the years, the Department of Physics has developed a lot in many aspects scientifically, technically, and administratively, and it is always in a state of continuous renewal, as postgraduate studies were opened in 1956 for masters and doctoral studies until it became wide-spectrum now and has a solid scientific standing. It was accurate, but the Department of Physics has a long history and a great impact on it.

3. Program Objectives

1. To provide a comprehensive education in physical that stresses scientific reasoning and problem solving across the spectrum of disciplines within physical
2. To prepare students for a wide variety of post-baccalaureate paths, including graduate school, professional training programs, or entry level jobs in any area of physical
3. To provide extensive hands-on training in electronic technology, statistical analysis, laboratory skills, and field techniques
4. To provide thorough training in written and oral communication of scientific information
5. To enrich students with opportunities for alternative education in the area of physical through undergraduate research, internships, and study-abroad

4. Student Learning Outcomes

Learning Outcomes Department of Physics

Outcome 1

Physics (Physical)

- 1- A physicist who has the ability to deal with radioactive sources theoretically and practically.
- 2- A physicist who can deal with lasers and laser matter interaction.
- 3- A physicist who can deal with the matter structures in micro dimension.
- 4- A physicist who has the ability to build scientific ideas within the infinitesimal dimensions (nanophysics).
- 5- A physicist who has the ability to analyze the optical spectra.
- 6-who has high skills in plasma.
- 7- A physicist who has the ability to deal with the quality control and quality assurance.

Outcome 2

Renewable Energies Physics

- 1- A physicist who can invest the nuclear energy in peaceful uses, such as electricity plant
- 2- A physicist who can invest lasers to manufacture and improve solar cells.
- 3- A physicist who deals with the indirect conversion of electrical energy into other forms of energy, such as mechanical or chemical energy, for use in various applications.
- 4- A physicist who can prepares and manufactures semiconductor solar cells.
- 5- A physicist who can prepare, manufacture and study dyes in applications of renewable energies.
- 6- A physicist who can study and employ plasma in various renewable energy technologies such as plasma gasification, plasma-assisted combustion, and plasma-enhanced chemical reactions.
- 7- A physicist who has the ability to employ physics in performing quality control and quality assurance.

Outcome 3

Medical Physics

- 1- A physicist who can employ and study nuclear activities in the treatment of cancer.
- 2- A physicist who has the ability to deal with laser in different applications in human body.

- 3- A physicist who has the ability to employ materials science in the manufacture of the necessary fillings for renewable energy technologies.
- 4- A physicist who has the ability to manufacture thin films that must be prepared as part of treatments in vivo and in vitro.
- 5- A physicist who can improve and purify water.
- 6- Employing plasma in all types of sterilization operations and various on-site medical treatments.
- 7- A physicist who is able to employ physics in performing quality control and quality assurance.

Outcome 4

Industrial Physics

- 1- A physicist with the ability of working in nuclear reactor facilities.
- 2- A physicist who can employ lasers and optics to improve the efficiency of production lines for factories.
- 3- A physicist who can supervise laboratories and production plants with accurate scientific specifications.
- 4- A physicist who has the ability to manufacture electronic devices.
- 5- A physicist who can develop solar collectors
- 6- A physicist who has the ability to deal with all types of electrical discharges.
- 7- - A physicist who able to employ physics in performing quality control and quality assurance.

Agricultural Physics

- 1- A physicist who can adopt the investment of nuclear radiation to improve agriculture for both soil and plants.
- 2- A physicist specialized in using various laser-based techniques to investigate and improve the viability of soil and plants.
- 3- A physicist who can study and analyze soil materials and components and find ways to improve them.
- 4- A physicist who is competent in painting greenhouses to improve plants and to provide a suitable environment for cultivation.
- 5-Who can efficiently improve and purifies water and air.
- 6- Studying and employing plasma in improving soil and plants, crossbreeding them.
- 7- A physicist with the ability to employ physics in performing quality control and quality assurance.

Outcome 6

Optical communication Physics

- 1- Employing nuclear energy to improve optical communications security.
- 2- A physicists who can use lasers in optical fiber communication systems.
- 3- A physicist who has the ability to manufacture optical fibers
- 4- A physicist who has the ability to manufacture a semiconductor source for optical communication system.
- 5- A physicist who has the ability to separate communication carrier lines by analyzing their spectra.
- 6- Employing plasma in the work of communication systems.
- 7- A physicist with the ability to employ physics in performing quality control and quality assurance.

Outcome 6

Forensic science, physics, and artificial intelligence

- 1- A physicist with the ability to use nuclear detection devices for detecting forensic evidence.
- 2- who has the ability as a laser physicist to analyze the necessary fingerprints.
- 3- A physicist with the ability to deal with all kinds of materials on how to extract traces of crime.
- 4- A physicist with the ability or ability to detect fingerprints and identify identification.
- 5- A physicist who can detect the traces of the offender by analyzing the liquid state (saliva).
- 6- Employing plasma in determining the substance's state within the crime's scope.
- 7- A physicist with the ability to employ physics in performing quality control and quality assurance.

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6. Credits, Grading and GPA

Credits

Baghdad University follows the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. Therefore, 1 ECTS equals 25 hrs student workload, including structured and unstructured workload.

Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

GRADING SCHEME				
مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب - قيد المعالجة	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				

Number Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

Calculation of the Cumulative Grade Point Average (CGPA)

1. The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

CGPA of a 4-year B.Sc. degree:

$$\text{CGPA} = [(1^{\text{st}} \text{ module score} \times \text{ECTS}) + (2^{\text{nd}} \text{ module score} \times \text{ECTS}) + \dots] / 240$$

7. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
PHY 1101	Mechanics and properties of Matter (1)	94	56	94	C	
PHY 1102	Electricity	94	56	94	C	
PHY 1103	Optics (1)	94	56	94	C	
COS 1104	Computers Skills (1)	62	88	62	S	
COS 1105	Mathematic (1)	63	12	63	S	
UOB 1106	Arabic Language	33	42	33	B	

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
PHY 1217	Mechanics and properties of Matter (2)	94	56	6.00	C	PHY 1101
PHY 1218	Magnetism	94	56	6.00	C	PHY 1102
UOB 1209	Democracy and Human Right	33	42	3.00	B	
PHY12110	Optics (2)	94	56	6.00	C	PHY 1103
COS 12011	General Chemistry	79	71	6.00	S	
UOB 12012	English Language (1)	33	42	3.00	B	

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
PHY 23113	Atomic Physics (1)	109	41	6.00	C	PHY 1217
PHY 23114	Heat and Thermodynamic	94	56	6.00	C	PHY 1217
PHY 23115	Analytical Mechanics (1)	78	72	6.00	C	PHY 1217
PHY 23116	Analog Electronics	94	56	6.00	C	PHY 1102
COS 23117	Mathematics (3)	33	42	3.00	S	COS 1105
UOB 23118	English language (2)	33	42	3.00	B	UOB 12012

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
PHY 24119	Atomic Physics (2)	109	41	6.00	C	PHY 23113
PHY 24120	Thermodynamic and Statistical mechanics	94	56	6.00	C	PHY 23114
PHY 24121	Analytical Mechanics (2)	78	72	6.00	C	PHY 23115
PHY 24122	Digital Electronics	94	56	6.00	C	PHY 23116
COS 24123	Mathematics (3)	33	42	3.00	S	COS 23117
UOB 24124	Computers Skills (2)	33	42	3.00	B	UOB 23118

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
PHY 35125	Molecular Physics	48	27	3.00	C	PHY 24119
PHY 35126	Optics (3)	94	56	6.00	C	PHY 12110
PHY 35127	Quantum Mechanics (1)	123	27	6.00	C	PHY 24119
PHY 35128	Material Physics (1)	94	56	6.00	C	PHY 1217
UOB 35129	English Language (3)	33	117	6.00	B	UOB 23118
PHY 35130	Optional (1)	48	27	3.00	E	

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
PHY 36131	Statistical Mechanics	63	87	6.00	C	COS 24123
PHY 36132	Quantum Mechanics (2)	123	27	6.00	C	PHY 35127
PHY 36133	Material Physics (2)	94	56	6.00	C	PHY 35128
UOB 36134	Research Methodology	18	57	3.00	S	UOB 35129
PHY 36135	Laser Physics	109	41	6.00	C	PHY 35125
PHY 36136	Optional (2)	48	27	3.00	E	PHY 35130

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
PHY 47137	Nuclear Physics (1)	94	56	6.00	C	PHY 24119
PHY 47138	Solid State Physics (1)	94	56	6.00	C	PHY 24119
PHY 47139	Electromagnetic Theory (1)	93	57	6.00	C	PHY 1218
UOB 47140	English Language (4)	33	42	3.00	B	UOB 35129
PHY 47141	Optional (3)	48	27	3.00	E	PHY 36136
PHY 47142	Research Project (1)	63	87	6.00	C	PHY 36136

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
PHY 48143	Nuclear Physics (2)	94	56	6.00	C	PHY 47137
PHY 48144	Solid State Physics (2)	94	56	6.00	C	PHY 47138
PHY 48145	Electromagnetic Theory (2)	93	57	6.00	C	PHY 47139
PHY 48146	Plasma Physics	63	12	3.00	C	PHY 47140
PHY 48147	Optional (4)	48	27	3.00	E	PHY 47141
PHY 48148	Research Project (2)	63	87	6.00	C	PHY 47142

8. Contact

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