

## TEMPLATE FOR PROGRAMME DESCRIPTION

### HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

#### PROGRAMME DESCRIPTION

The academic program includes teaching and learning methods and assessment methods for the courses in order to achieve the targeted educational outcomes with the awarded certificate and job qualifications.

1- Academic Institution	University of Mosul / College of education for pure sciences
2- Department	Physics
3- Academic program	
4- Course level	Bachelor Degree
5- Course mode	Full Time
6- Course	

7- External activities	
8- Date	2022
<p>9- Academic goals of the course;</p> <ul style="list-style-type: none"> <li>a- Preparing high-level graduates in physics and its applications to take their roles in public secondary schools.</li> <li>b- Preparing students that have high quality teachings methods</li> <li>c- Preparing high-level graduates in physics and its applications</li> <li>d- Graduate students should be ready to join high level courses to get degrees in specific areas.</li> </ul>	
10-Program outcomes and teaching methods for learning and assessment	
<p>a- Cognitive objectives</p> <ul style="list-style-type: none"> <li>a1- Enable the students to understand the all fields of physics</li> <li>a2- Preparing physics teachers with high quality skills</li> </ul>	
<p>b- skill goals</p> <ul style="list-style-type: none"> <li>b1- Skill of description of physics</li> <li>b2- Skill of analysis of the experiments</li> </ul>	
<p>Teaching and learning methods:</p> <p>Theoretical and practical lectures, assignments, discussion.</p>	
<p>methods of assessment:</p> <p>Tests, assignments, lab reports, graduation project</p>	

- c- General skills
  - c1- Ability of working as a multidisciplinary team work
  - c2- Ability for effective connection

1.Learning outcomes, Teaching, Learning and assessment methods
A. Understanding and knowledge A1.The student will be able to understand the various subjects of Physics A2.Preparing biology teachers at levels that keep pace with the up to date development.
B- Subject-specific skills B1- The students acquire the skills of describing Physics B2- The students acquire the skills of laboratory analysis
Teaching and Learning Methods
Theoretical and practical lectures, daily assignments, discussions
Assessment methods
Exams, daily assignments, lab reports, graduation projects
C - thinking skills: C1- The student acquires discussion skills C2 - The student will be able to reach conclusions.
D- General and transferable skills (other skills related to employability and personal development) D 1- The ability to work in a multidisciplinary team.

D2 - The ability to communicate constructively.
Teaching and learning methods Lectures, practical experiments, homework, discussions
Assessment Methods
Exams, daily homework, discussions, lab reports, graduation projects

Stages	Program Sections			
	Code	Name	Hours per week	
			Theoretical	practical
First year	F10122EDPH	Mechanics	3	3
	F10222EDPH	Electricity and Magnetism	3	3
	F10322EDPH	Heat and State Properties	2	--
	F10422EDPH	Mathematics	3	--
	5F1022EDPH	Computers	1	2
	F10622EDPH	Educational Psychology	2	--
	F10722EDPH	Principles Education	2	--

	F10822EDPH	Human Right	1	--
	F10922EDPH	Arabic Language	2	--
	F11022EDPH	English Language	1	--
Second year	012EDPH22F	Advance Electricity and Magnetism	2	3
	022EDPH22F	Optics	3	3
	032EDPH22F	Sound and Wave Motion	1	2
	042EDPH22F	Astronomy	2	--
	502EDPH22F	Advance Mathematics	2	--
	062EDPH22F	Programming	3	--
	072EDPH22F	Research Approach	2	--
	082EDPH22F	Growth Psychology	2	--
	902EDPH22F	Administration and Secondary Education	2	--

	01EDPH22F2	English Language	1	--
Third year	EDPH22F301	Atom and Molecule physics	3	3
	EDPH22F302	Analytical Mechanics	2	1
	EDPH22F303	Electronics	3	3
	EDPH22F304	Thermodynamic	2	1
	5EDPH22F30	Complex Functions	2	--
	EDPH22F306	Selective	2	--
	EDPH22F307	Mythology and Teaching Methods	1	2
	EDPH22F308	Psychological Heath and Guidance	2	--
	EDPH22F309	English language	1	--
Fourth	EDPH22F401	Nuclear Physics	3	3

year	EDPH22F402	Electromagnetic theory	2	1
	EDPH22F403	Quantum mechanic	2	1
	EDPH22F404	Solid state Physics	2	1
	5EDPH22F40	Laser	2	--
	EDPH22F406	Educational Lab.	--	3
	EDPH22F407	Graduated Project	2	
	EDPH22F408	School Practice	2	
	9EDPH22F40	Measurement and Evaluations	2	--
	410EDPH22F	English language	1	--

### Syllabus Skills Outline

\* Please mark the boxes corresponding to the individual learning outcomes from the program being assessed

Learning outcomes required from the program

General and qualification skills (employability and personal development skills )				Affection Goals				Skill goals				Cognitive objectives				Major Or optional	Name	Code	Stages
													*	*	*	major	Mechanics	F10122EDPH	First year
													*	*	*	major	Electricity and Magnetism	F10222EDPH	
													*	*	*	major	Heat and State Properties	F10322EDPH	
								*			*					major	Mathematics	F10422EDPH	
											*					major	Computers	5F1022EDPH	
								*						*		major	Educational Psychology	F10622EDPH	
								*						*		major	Principles Education	F10722EDPH	
								*			*			*		major	Human Right	F10822EDPH	



																major	Arabic Language	F10922EDPH	
																major	English Language	F11022EDPH	
												*	*	*	*		Advance Electricity and Magnetism	012EDPH22F	Second year
													*	*	*		Optics	022EDPH22F	
													*	*	*		Sound and Wave Motion	032EDPH22F	
									*				*	*	*		Astronomy	042EDPH22F	
												*					Advance Mathematics	502EDPH22F	
							*	*		*					*		Programming	062EDPH22F	
										*					*		Research Approach	072EDPH22F	
									*						*		Growth Psychology	082EDPH22F	
																	Administration and Secondary Education	902EDPH22F	

																	<b>English Language</b>	<b>01EDPH22F2</b>	
													*	*	*		<b>Atom and Molecule physics</b>	<b>EDPH22F301</b>	<b>Third year</b>
												*	*	*	*	<b>Analytical Mechanics</b>	<b>EDPH22F302</b>		
										*				*	*	<b>Electronics</b>	<b>EDPH22F303</b>		
													*	*	*	<b>Thermodynamic</b>	<b>EDPH22F304</b>		
										*		*		*	*	<b>Complex Functions</b>	<b>5EDPH22F30</b>		
										*			*	*	*	<b>Selective</b>	<b>EDPH22F306</b>		
											*			*	*	<b>Mythology and Teaching Methods</b>	<b>EDPH22F307</b>		
											*			*		<b>Psychological Heath and Guidance</b>	<b>EDPH22F308</b>		
									*	*		*		*		<b>English language</b>	<b>EDPH22F309</b>		

														*	*	<b>Nuclear Physics</b>	<b>EDPH22F401</b>	<b>Fourth year</b>
													*	*	*	<b>Electromagnetic theory</b>	<b>EDPH22F402</b>	
													*	*	*	<b>Quantum mechanic</b>	<b>EDPH22F403</b>	
													*	*	*	<b>Solid state Physics</b>	<b>EDPH22F404</b>	
													*	*	*	<b>Laser</b>	<b>5EDPH22F40</b>	
														*	*	<b>Educational Lab.</b>	<b>EDPH22F406</b>	
																<b>Graduated Project</b>	<b>EDPH22F407</b>	
																<b>School Practice</b>	<b>EDPH22F408</b>	
									*					*		<b>Measurement and Evaluations</b>	<b>9EDPH22F40</b>	
														*	*	<b>English language</b>	<b>410EDPH22F</b>	