Academic Program Description.

This description displays the most important characteristics of the program and the learning outcomes expected of the student to be achieved.

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	**September 2020**
9- Academic goals of the course; a- Preparing high-level graduates in physics and its applications to take their roles in public secondary schools. b- Preparing students that have high quality teachings methods **c-** Preparing high-level graduates in physics and its applications d- Graduate students should be ready to join high level courses to get degrees in specific areas.	
10- Program outcomes and teaching methods for learning and assessment	
a- Cognitive objectives a1- Enable the students to understand the all fields of physics a2- Preparing physics teachers with high quality skills	
b- skill goals b1- Skill of description of physics b2- Skill of analysis of the experiments	
Teaching and learning methods: Theoretical and practical lectures, assignments, discussion.	
methods of assessment: Tests, assignments, lab reports, graduation project	
c- General skills c1- Ability of working as a multidisciplinary team work c2- Ability for effective connection	

	Program Sections			
Stages	**Code**	**Name**	**Hours per week**	
			Theoretical	**practical**
First year	**EDPH22F101**	Mechanics	3	3
	EDPH22F102	Electricity and Magnetism	3	3
	EDPH22F103	Heat and State Properties	2	--
	EDPH22F104	Mathematics	3	--
	EDPH22F105	Computers	1	2
	EDPH22F106	Educational Psychology	2	--
	EDPH22F107	Principles Education	2	--
	EDPH22F108	Human Right	1	--
	EDPH22F109	Arabic Language	2	--
	EDPH22F110	English Language	1	--
Second year	**EDPH22F201**	Advance Electricity and Magnetism	2	3
	EDPH22F202	Optics	3	3
	EDPH22F203	Sound and Wave Motion	1	2
	EDPH22F204	Astronomy	2	--
	EDPH22F205	Advance Mathematics	2	--
	EDPH22F206	Programming	3	--
	EDPH22F207	Research Approach	2	--
	EDPH22F208	Growth Psychology	2	--
	EDPH22F209	Administration and Secondary Education	2	--
	EDPH22F210	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
	EDPH22F305	Complex Functions	2	--
	EDPH22F306	Selective	2	--
	EDPH22F307	Mythology and Teaching Methods	1	2
	EDPH22F308	Psychological Heath and	2	--

		Guidance		
	EDPH22F309	English language	1	--
Fourth year	**EDPH22F401**	Nuclear Physics	3	3
	EDPH22F402	Electromagnetic theory	2	1
	EDPH22F403	Quantum mechanic	2	1
	EDPH22F404	Solid state Physics	2	1
	EDPH22F405	Laser	2	--
	EDPH22F406	Educational Lab.	--	3
	EDPH22F407	Graduated Project	2	
	EDPH22F408	School Practice	2	
	EDPH22F409	Measurement and Evaluations	2	--
	EDPH22F410	English language	1	--

11- Planning for personal improvement
Practice in school, employs the facility of the college library and publish papers.
12- Establish regulations for joining collages and institutes
Ministry Of Higher Education and Scientific Research Announces the Rules for Accepting.
13- The resources of the program
Guidance leaflet from Ministry of Higher Education and Scientific Research, internet websites of the collages.

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)				Affectional Goals				Skill goals				Cognitive objectives				Major Or optional	Name	Code	Stages
d4	d3	d2	d1	c4	c3	c2	c1	b4	b3	b2	b1	a4	a3	a2	a1				
													*	*	*	major	Mechanics	EDPH22F101	First year
													*	*	*	major	Electricity and Magnetism	EDPH22F102	
													*	*	*	major	Heat and State Properties	EDPH22F103	
								*			*					major	Mathematics	EDPH22F104	
											*					major	Computers	EDPH22F105	
								*						*		major	Educational Psychology	EDPH22F106	
								*						*		major	Principles Education	EDPH22F107	
								*			*			*		major	Human Right	EDPH22F108	
																major	Arabic Language	EDPH22F109	
																major	English	EDPH22F110	

																Language		
												*	*	*	*	**Advance Electricity and Magnetism**	**EDPH22F201**	**Second year**
													*	*	*	**Optics**	**EDPH22F202**	
													*	*	*	**Sound and Wave Motion**	**EDPH22F203**	
										*			*	*	*	**Astronomy**	**EDPH22F204**	
												*				**Advance Mathematics**	**EDPH22F205**	
								*	*		*			*		**Programming**	**EDPH22F206**	
											*			*		**Research Approach**	**EDPH22F207**	
										*				*		**Growth Psychology**	**EDPH22F208**	
																Administration and Secondary Education	**EDPH22F209**	
																English Language	**EDPH22F210**	
														*	*	**Atom and Molecule physics**	**EDPH22F301**	**Third year**
													*	*	*	**Analytical Mechanics**	**EDPH22F302**	

											*				*	*	**Electronics**	**EDPH22F303**	
														*	*	*	**Thermodynamic**	**EDPH22F304**	
											*		*		*	*	**Complex Functions**	**EDPH22F305**	
											*			*	*	*	**Selective**	**EDPH22F306**	
												*			*	*	**Mythology and Teaching Methods**	**EDPH22F307**	
												*			*		**Psychological Heath and Guidance**	**EDPH22F308**	
									*	*		*			*		**English language**	**EDPH22F309**	
															*	*	**Nuclear Physics**	**EDPH22F401**	**Fourth year**
													*		*	*	**Electromagnetic theory**	**EDPH22F402**	
													*		*	*	**Quantum mechanic**	**EDPH22F403**	
													*		*	*	**Solid state Physics**	**EDPH22F404**	
													*		*	*	**Laser**	**EDPH22F405**	
															*	*	**Educational Lab.**	**EDPH22F406**	

																Graduated Project	**EDPH22F407**	
																School Practice	**EDPH22F408**	
									*						*	**Measurement and Evaluations**	**EDPH22F409**	
															*	**English language**	**EDPH22F410**	