

## 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	Mathematics
3- Academic program	
4- Course level	Bachelor's degree
5- Course mode	Full Time
6- Course	
7- External activities	

8- Date	1/11/2020
<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 mathematics 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	
<ul style="list-style-type: none"> <li>a- Cognitive objectives <ul style="list-style-type: none"> <li>a1- Enable the students to understand the all fields of mathematics</li> <li>a2- Preparing mathematics teachers with high quality skills</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>b- skill goals <ul style="list-style-type: none"> <li>b1- Skill of description of mathematics</li> <li>b2- Skill of analysis of the experiments</li> </ul> </li> </ul>	
<p>Teaching and learning methods: Theoretical and practical lectures, assignments, discussion.</p>	
<p>methods of assessment: Tests, assignments, lab reports, graduation project</p>	
<ul style="list-style-type: none"> <li>c- General skills <ul style="list-style-type: none"> <li>c1- Ability of working as a multidisciplinary team work</li> <li>c2- Ability for effective connection</li> </ul> </li> </ul>	

1.Learning outcomes, Teaching, Learning and assessment methods
A. Understanding and knowledge A1.The student will be able to understand the various subjects of Mathematics 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 understanding and using Mathematics B2- The students acquire the skills of Logical 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

	Program Sections			
Stages	Code	Name	Hours per week	
			Theoretical	practical
First year	<b>EDMA21F101</b>	Calculus	3	2
	<b>EDMA21F102</b>	Foundation of Mathematics	2	2
	<b>EDMA21F103</b>	Linear Algebra	2	2
	<b>EDMA21F104</b>	Physics	2	--
	<b>EDMA21F105</b>	Computers	1	2
	<b>EDMA21F106</b>	Educational Psychology	2	--
	<b>EDMA21F107</b>	Principles Education	2	--
	<b>EDMA21F108</b>	Human Right	2	--
	<b>EDMA21F109</b>	Arabic Language	2	--
	<b>EDMA21F110</b>	English Language	1	--

Second year	<b>EDMA21F201</b>	Advanced Calculus	2	3
	<b>EDMA21F202</b>	Ordinary Differential Equations	2	2
	<b>EDMA21F203</b>	Group Algebra	1	2
	<b>EDMA21F204</b>	Axioms and Geometry	1	2
	<b>EDMA21F205</b>	Programming	1	2
	<b>EDMA21F206</b>	Research Approach	2	--
	<b>EDMA21F207</b>	Growth Psychology	2	--
	<b>EDMA21F208</b>	Administration and Secondary Education	2	--
	<b>EDMA21F209</b>	English Language	1	--
Third year	<b>EDMA21F301</b>	Real Analysis	2	2

	<b>EDMA21F302</b>	Partial Differential Equations	2	2
	<b>EDMA21F303</b>	Ring Algebra	2	2
	<b>EDMA21F304</b>	Probability and Statistics	2	2
	<b>EDMA21F305</b>	Numerical Analysis	2	2
	<b>EDMA21F306</b>	Mythology and Teaching Methods	2	--
	<b>EDMA21F307</b>	Psychological Health and Guidance	2	--
	<b>EDMA21F308</b>	English language	1	--
Fourth year	<b>EDMA21F401</b>	Topology	2	2
	<b>EDMA21F402</b>	Mathematical Statistics	2	2
	<b>EDMA21F403</b>	Selective (1)	2	2
	<b>EDMA21F404</b>	Selective (2)	2	2

	<b>EDMA21F405</b>	Complex Analysis	2	2
	<b>EDMA21F406</b>	Graduated Project	2	
	<b>EDMA21F407</b>	School Practice	2	
	<b>EDMA21F408</b>	Measurement and Evaluations	2	--
	<b>EDMA21F409</b>	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	Calculus	<b>EDMA21F101</b>	First year
													*	*	*	major	Foundation of Mathematics	<b>EDMA21F102</b>	
													*	*	*	major	Linear Algebra	<b>EDMA21F103</b>	
								*			*					major	Physics	<b>EDMA21F104</b>	
											*					major	Computers	<b>EDMA21F105</b>	
								*						*		major	Educational Psychology	<b>EDMA21F106</b>	



								*						*		major	Principles Education	<b>EDMA21F107</b>		
								*			*			*		major	Human Right	<b>EDMA21F108</b>		
																major	Arabic Language	<b>EDMA21F109</b>		
																major	English Language	<b>EDMA21F110</b>		
												*	*	*	*	major	Advanced Calculus	<b>EDMA21F201</b>	Second year	
													*	*	*	major	Ordinary Differential Equations	<b>EDMA21F202</b>		
													*	*	*	major	Group Algebra	<b>EDMA21F203</b>		
										*			*	*	*	major	Axioms and Geometry	<b>EDMA21F204</b>		
											*					major	Programming	<b>EDMA21F205</b>		
								*	*		*			*		major	Research Approach	<b>EDMA21F206</b>		

										*			*		major	Growth Psychology	EDMA21F207	
										*			*		major	Administration and Secondary Education	EDMA21F208	
															major	English Language	EDMA21F209	
													*	*	major	Real Analysis	EDMA21F301	Third year
												*	*	*	major	Partial Differential Equations	EDMA21F302	
										*				*	major	Ring Algebra	EDMA21F303	
													*	*	major	Probability and Statistics	EDMA21F304	
										*		*		*	major	Numerical Analysis	EDMA21F305	

											*			*	*	major	Mythology and Teaching Methods	<b>EDMA21F306</b>	Fourth year
												*			*	major	Psychological Health and Guidance	<b>EDMA21F307</b>	
												*			*	major	English language	<b>EDMA21F308</b>	
															*	major	Topology	<b>EDMA21F401</b>	
													*		*	major	Mathematical Statistics	<b>EDMA21F402</b>	
													*		*	major	Selective (1)	<b>EDMA21F403</b>	
													*		*	major	Selective (2)	<b>EDMA21F404</b>	
													*		*	major	Complex Analysis	<b>EDMA21F405</b>	
															*	major	Graduated Project	<b>EDMA21F406</b>	

																major	School Practice	<b>EDMA21F407</b>	
																major	Measurement and Evaluations	<b>EDMA21F408</b>	
								*						*	major	English language	<b>EDMA21F409</b>		