

Kingdom of Saudi Arabia  
Ministry of Education  
Majmaah University  
College of Education – Zulfi  
Physics Department



المملكة العربية السعودية  
وزارة التعليم  
جامعة المجمعة  
كلية التربية بالزلفي  
قسم الفيزياء

# Diploma Supplement



## DIPLOMA SUPPLEMENT

This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES.

The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition.

<p><b>1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION</b></p> <p>1.1 Surname:</p> <input type="text"/> <p>1.2 First Name(s):</p> <input type="text"/> <p>1.3 Date of Birth (day/month/year):</p> <input type="text"/> <p>1.4 Student identification number or code (if available):</p> <input type="text"/> <p><b>2. INFORMATION IDENTIFYING THE QUALIFICATION</b></p> <p>2.1 Name of qualification and (if applicable) title conferred:</p> <input type="text"/> <p>2.2 Main field(s) of study for the qualification:</p> <input type="text" value="Physics"/> <p>2.3 Name and status of awarding institution (in original language):</p> <p style="text-align: center;">جامعة المجمعة – كلية التربية بالزلفي <b>Majmaah University College of Education - Zulfi</b></p> <p>2.4 Name and status of institution (if different from 2.3) administering studies (in original language):</p> <input type="text" value="Same 2.3"/> <p>2.5 Language(s) of instruction/examination:</p> <input type="text" value="Arabic"/> <p><b>3. INFORMATION ON THE LEVEL OF THE QUALIFICATION</b></p> <p>3.1 National Framework of Qualifications level and award-type:</p> <input type="text" value="Third Level (Bachelor)"/> <p>3.2 Official length of program :</p> <input type="text" value="Four Academic Years(Full-time mode, 8 Semester, 144 Credit Hours, 240 ECTS)"/>	<p><b>3.3 Access Requirement(s):</b></p> <p>Higher Education Entrance Qualification , <a href="http://mu.edu.sa/en/deanships/deanship-admission-and-registration/requirements-admission">http://mu.edu.sa/en/deanships/deanship-admission-and-registration/requirements-admission</a></p> <p><b>4. INFORMATION ON THE CONTENTS AND RESULTS GAINED</b></p> <p>4.1 Mode of Study:</p> <input type="text" value="Full-Time"/> <p>4.2 Program Requirements:</p> <p>A Student must satisfy the program graduation requirements are follows</p> <table border="1"> <thead> <tr> <th>Degree Requirements</th> <th>C. H. KSA.</th> <th>ECTS</th> </tr> </thead> <tbody> <tr> <td>University Requirements</td> <td>12</td> <td>20</td> </tr> <tr> <td>College Requirements</td> <td>38</td> <td>63.5</td> </tr> <tr> <td>Physics Compulsory</td> <td>90</td> <td>150</td> </tr> <tr> <td>Physics Elective</td> <td>4</td> <td>6.5</td> </tr> <tr> <td></td> <td>144</td> <td>240</td> </tr> </tbody> </table> <p>4.3 Please see last page</p> <p>4.4 Grading Scheme and, if available, grade distribution guidance: A minimum Cumulative Grade Point Average of 2.00/5.00 is requirements for award of this qualification.</p> <p>4.5 Overall classification of the qualification (in original language):</p> <p><b>5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION</b></p> <p>5.1 Access to further study:</p> <input type="text"/> <p>5.2 Professional status (if applicable):</p> <input type="text" value="Not Applicable"/> <p><b>6. ADDITIONAL INFORMATION</b></p> <p>6.1 Additional information:</p> <input type="text"/> <p>Award Conferred</p> <p>6.2 Further information sources:</p> <input type="text"/>	Degree Requirements	C. H. KSA.	ECTS	University Requirements	12	20	College Requirements	38	63.5	Physics Compulsory	90	150	Physics Elective	4	6.5		144	240
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## 4.3 Program details (e.g. modules or units studied), and the individual grades/marks/credits obtained:

CODE	SUBJECT	Semester F=First S= Second	SKA Credits	ECTS Credits	Grade
ARAB101	University req.	F2011/2012	2	3	B
CURR101	University req.	F2011/2012	2	3	C+
ENG101	University req.	F2011/2012	2	3	C
EDU116	Teaching Techniques and Communications Skills	F2011/2012	2	3	A+
EDU117	Assets of Islamic education	F2011/2012	2	3	A+
EDU118	system and policy of the education in the Kingdom of Saudi Arabia	S2011/2012	2	3	A+
CHEM111	GENERAL CHEMISTRY	S2011/2012	2	3	B+
MATH111	CALCULUS (1)	S2011/2012	2	3	B+
PHYS111	GENERAL PHYSICS (1)	S2011/2012	2	3	B+
SOCI101	University req.	S2011/2012	2	3	A
EDU126	Developmental Psychology	S2011/2012	2	3	A+
PHYS121	MATHEMATICAL PHYSICS(1)	F2012/2013	4	7	A
PHYS122	CLASSICAL MECHANICS (1)	F2012/2013	3	5	A+
PHYS123	GENERAL PHYSICS (2)	F2012/2013	3	5	B+
PHYS124	OPTICS	F2012/2013	3	5	B+
PHYS126	OPTICS LAB	F2012/2013	1	2	B+
SALM102	University req.	F2012/2013	2	3	A+
EDU216	Mental Health	S2012/2013	2	3	A+
EDU217	Principles of Educational Research	F2011/2012	2	3	A+
PHYS212	MATHEMATICAL PHYSICS(2)	S2012/2013	3	5	A+
PHYS213	GENERAL PHYSICS (3)	S2012/2013	3	5	A+
PHYS214	THERMODYNAMICS	S2012/2013	3	5	A
PHYS215	CLASSICAL MECHANICS (2)	F2014/2015	3	5	C+
SALM103	University req.	S2013/2014	2	3	A
EDU226	Educational Psychology	F2011/2012	2	3	A
PHYS221	MATHEMATICAL PHYSICS(3)	F2013/2014	3	5	C+
PHYS222	ELECTRICITY & MAGNETISM (1)	S2012/2013	4	7	A
PHYS223	WAVE MOTION & VIBRATION	S2013/2014	3	5	A
PHYS224	MODERN PHYSICS	S2012/2013	4	7	A
EDU316	Management and planning of educational	F2013/2014	2	3	B
EDU317	Production e-learning resources	F2013/2014	2	3	A
PHYS312	ELECTRICITY & MAGNETISM (2)	F2013/2014	4	7	A
PHYS313	ELECTRONICS (1)	F2013/2014	3	5	A
PHYS311	QUANTUM MECHANICS(1)	F2013/2014	3	5	A
PHYS314	ELECTRODYNAMICS	S2013/2014	4	7	B
EDU326	Teaching Strategies	F2011/2012	2	3	A+
EDU327	Educational Curricula	S2013/2014	2	3	B
PHYS***	SELECTIVE COURSE(NANO)	S2014/2015	2	3	B
PHYS321	STATISTICAL PHYSICS	F2014/2015	3	5	A
PHYS322	QUANTUM MECHANICS(2)	F2014/2015	3	5	B
PHYS323	SOLID STATE PHYSICS (1)	S2013/2014	3	5	A+
PHYS324	ELECTRONICS (2)	S2013/2014	3	5	A
EDU416	Modern trends in teaching strategies	F2014/2015	2	3	A+
EDU417	Educational Evaluation	S2014/2015	2	3	A+
PHYS411	COMPUTATIONAL PHYSICS (1)	F2014/2015	3	5	A
PHYS412	SOLID STATE PHYSICS (2)	S2014/2015	3	5	B+
PHYS413	ATOMIC & MOLECULAR SPECTRA	F2014/2015	4	7	A
PHYS415	NUCLEAR PHYSICS (1)	F2014/2015	4	7	A

CODE	SUBJECT	Semester F=First S= Second	SKA Credits	ECTS Credits	Grade
EDU427	Practicum	S2014/2015	6	10	A+
PHYS***	SELECTIVE COURSE(BIO)	S2014/2015	2	3	A
PHYS421	COMPUTATIONAL PHYSICS (2)	S2014/2015	3	5	C+
PHYS423	NUCLEAR PHYSICS (2)	S2014/2015	4	7	B
PHYS424	LASER PHYSICS AND IT'S APPLICATIONS.	S2014/2015	3	5	B+
<b>Total Number of KSA Credits and ECTS</b>			144	240	
<b>GPA</b>				<b>4.56</b>	

#### 4.4 Grade Distribution

Grade Points	Grade Meaning	Latter Grade	Percentage Grade	Grade Points	Grade Meaning	Latter Grade	Percentage Grade
100	Excellent+	A +	5.00	2.00	Pass	D	60-64
90-94	Excellent	A	4.75	1.00	Failure	E	< 60
85-89	Very good+	B +	4.50	1.00	Debarred	H	0.00
80-84	Very good	B	4.00	0.00	Withdrawal	W	0.00
75-79	Good+	C +	3.50	0.00	Incomplete	I	0.00
70-74	Good	C	3.00	0.00	Transferred	TR	0.00
65-69	Pass+	D +	2.50				

#### 7. CERTIFICATION OF THE SUPPLEMENT

<b>7.1 Date</b> <input type="text"/>	<b>7.2 Signature</b> <input type="text"/>
<b>7.3 Capacity</b> <input type="text" value="Register, Majmaah University, College of Education Zulfi"/>	<b>7.4 Official Stamp or Seal</b> <input type="text"/>

College of  
Education  
Zulfi

Physic Program

University  
Requisite

College  
Requisite

Department  
Requisite

Elective  
course

Compulsory  
Course

Course name	code	Credit Hours
See below in L.H.S		

Course name	code	Credit Hours
Teaching Techniques and Communications Skills	EDU116	2
Fundamentals of Islamic Education	EDU117	2
The System and Policy of Education in KSA	EDU118	2
Developmental Psychology	EDU126	2
Psychological Health	EDU216	2
Principles of Educational Research	EDU217	2
Educational Psychology	EDU226	2
Administration and Educational planning	EDU316	2
Production of E-learning resources	EDU317	2
Teaching Strategies	EDU326	2
Educational Curricula	EDU327	2
Modern Trends in Teaching Strategy	EDU416	2
Educational Evaluation	EDU417	2
Practicum	EDU427	6

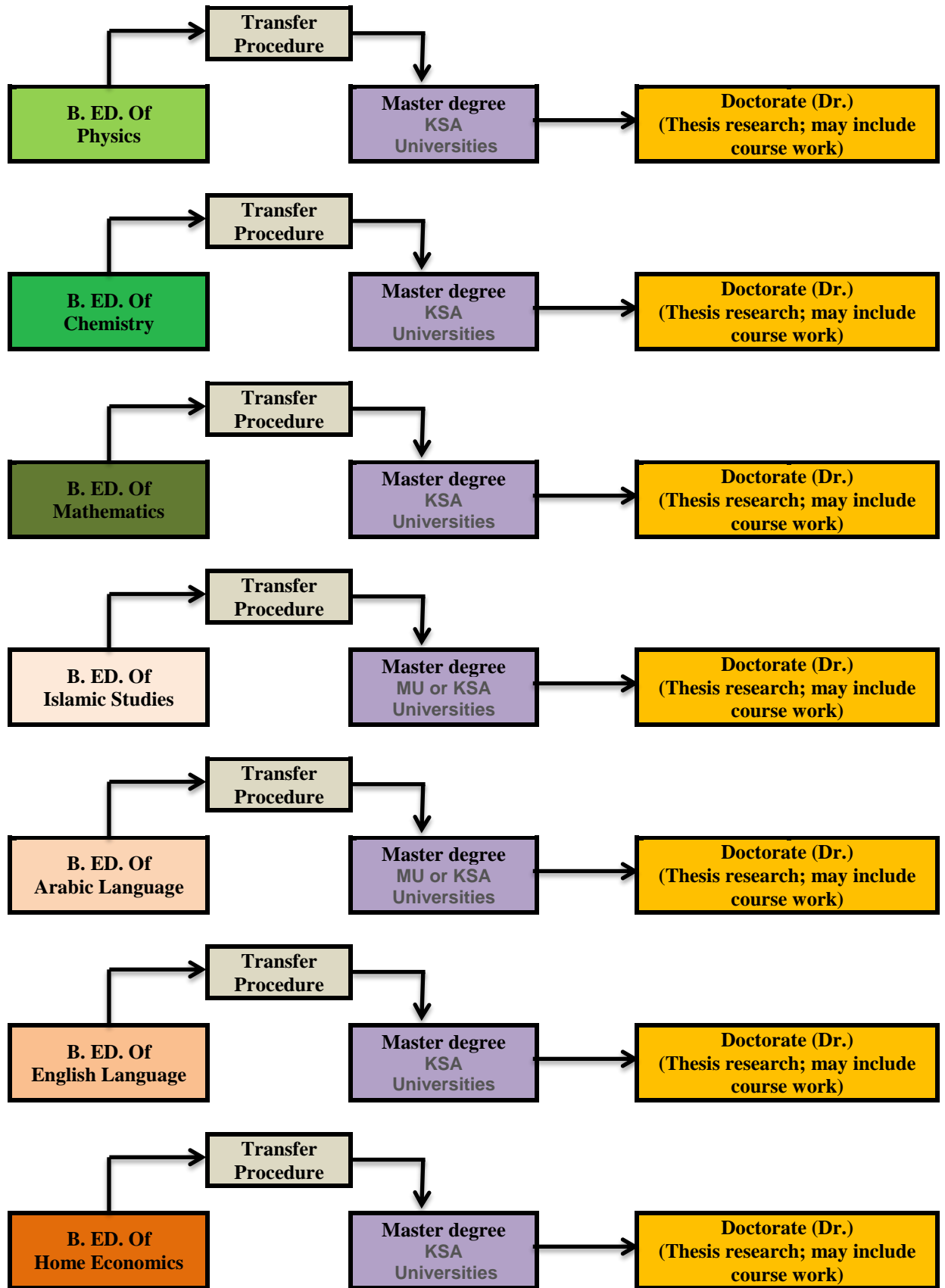
Course name	code	Credit Hours
Environment Radiation Physics	Phys380	2
Spectrum Analysis Physics	Phys381	2
Molecular Motion Physics	Phys382	2
Devices Physics	Phys383	2
Modeling and Simulation Physics	Phys384	2
Advanced Electrodynamics	Phys385	2
Physics of Materials Science	Phys386	2
Nanotechnology Physics	Phys387	2
Astronomy Physics	Phys388	2
Earth Physics	Phys389	2
Nuclear Medical Physics	Phys390	2
Biophysics	Phys391	2
Health Physics	Phys393	2
Plasma Physics	Phys395	2
Accelerator Physics	Phys396	2
Neutrons and Reactor Physics	Phys397	2
Elementary Particle Physics	Phys398	2
Energy Physics	Phys399	2

### University Requisite

Introduction to Islamic Culture	SALM101	2
Islam and Building Society	SALM102	2
Economical system in Islam	SALM103	2
Foundations of Political System in Islam	SALM104	2
Linguistic Skills	ARAB101	2
Arabic Editing	ARAB102	2
English Language	ENG101	2
Family and Childhood	FCH101	2
Contemporary Societal Issues	SOCI101	2
Volunteer Work	VOW101	2
Systems and Human Rights	LHR101	2
Leading Businesses	ENT101	2
Health and Fitness Basics	HAF101	2

Course name	code	Credit Hours
GENERAL CHEMISTRY	CHEM111	2
CALCULUS (1)	MATH111	2
GENERAL PHYSICS (1)	PHYS111	2
GENERAL PHYSICS (2)	PHYS123	2
OPTICS	PHYS124	2
OPTICS LAB	PHYS126	1
MATHEMATICAL PHYSICS(1)	PHYS121	4
CLASSICAL MECHANICS (1)	PHYS122	3
GENERAL PHYSICS (3)	PHYS213	3
THERMODYNAMICS	PHYS214	3
MATHEMATICAL PHYSICS(2)	PHYS212	3
CLASSICAL MECHANICS (2)	PHYS215	3
WAVE MOTION & VIBRATION	PHYS223	3
ELECTRICITY & MAGNETISM (1)	PHYS222	4
MODERN PHYSIS	PHYS224	4
MATHEMATICAL PHYSICS(3)	PHYS221	3
ELECTRONICS (1)	PHYS313	3
ELECTRODYNAMICS	PHYS314	4
ELECTRICITY & MAGNETISM (2)	PHYS312	4
QUANTUM MECHANICS(1)	PHYS311	3
ELECTRONICS (2)	PHYS324	3
QUANTUM MECHANICS(2)	PHYS322	3
STATISTICAL PHYSICS	PHYS321	3
SOLID STATE PHYSICS (1)	PHYS323	3
ATOMIC&MOLECULAR SPECTRA	PHYS413	4
COMPUTATIONAL PHYSICS (1)	PHYS411	3
NUCLEAR PHYSICS (1)	PHYS415	4
SOLID STATE PHYSICS (2)	PHYS412	3
LASER PHYSICS AND IT'S APPLICATIONS.	PHYS424	3
COMPUTATIONAL PHYSICS (2)	PHYS421	3
NUCLEAR PHYSICS (2)	PHYS8423	4

8. INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM



# University Mission

The mission of Majmaah University is to offer educational programs with high quality as well as funding all types of research projects and social initiatives that contribute in achieving the sustainable development. We also committed to instill the concept of patriotism and educate students about the culture and heritage of the country.

## College Mission

The College seeks to prepare highly qualified education, academic and professional to compete in building knowledge society in accordance with the quality standard

## Program Mission

The Physics Department seeks to prepare qualified graduates academically and educationally with high efficiency to meet the needs of the community according to quality standards.

## Program Objectives

1. Rehabilitation of the student-depth knowledge of the extent of scientific maturity, he can participate effectively in the scientific and technical aspects of the development and planning programs.
2. Prepare qualified cadres scientifically to meet the needs of the labour market public and private sectors. In accordance with the quality standards.
3. Prepare students appropriate preparation paid to continue his studies at the graduate programs at various universities in the KSA and abroad.
4. The development of students' skills and developed to address the problems in a scientific manner based on the principles of the survey and analysis and conclusion substantive solutions to the raised problems.
5. Work effectively individual and within a team.

## Program Learning Outcomes

1.0	<b>Knowledge</b>
1.1	<b>Recognize</b> the basics, principles, and theories of physics, in the different branches.
1.2	<b>Name</b> the basic concepts in Science Educations, the Arabic language, and Islamic studies.
1.3	<b>Define</b> the basic concepts in physics, Education assistance, such as mathematics, chemistry, and computer science.
2.0	<b>Cognitive Skills</b>
2.1	<b>Use</b> the principles and theories of mathematics <b>in solving</b> physics problems of different branches.
2.2	<b>Use</b> of various hardware components of the physical laboratory to <b>conduct</b> physical experiments.
2.3	<b>Apply</b> the knowledge gained and the use of modern teaching strategies in explaining the physical systems.
3.0	<b>Interpersonal Skills and Responsibility</b>
3.1	<b>Take into account</b> the ethical and professional principles in the discussion of issues related to the teaching profession.
3.2	<b>Apply</b> the professional and ethical principles to the teaching profession.
3.3	<b>Develop</b> the cooperative learning through discussions and collaborative work in the classroom.
4.0	<b>Communication and Numerical Skills</b>
4.1	<b>Use</b> computer programs in physical systems applications.
4.2	<b>Take responsibility</b> for self-learning and lead the team.
5.0	<b>Psychomotor</b>
5.1	<i>Not Applicable.</i>