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This is to certify that student **HOSAMELDIN AHMED MOHAMED SULIMAN (Sudanese)**, has passed the final examination in the Faculty of Engineering, Department of *Medical Engineering* and has been awarded the degree of Bachelor of Science in *Medical Engineering* with grade (**Second Class-Division One**) as a *fulltime* student by the Academic Council on the 17th day of May 2017, and he/she has obtained the following grades:

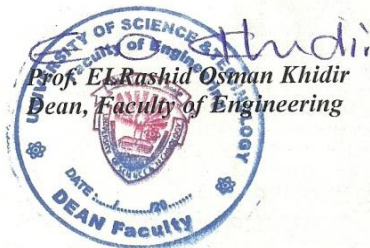
First Year (2012/2013)				Second Year (2013/2014)			
Course Code	Course Name	Credit Hours	Grade	Course Code	Course Name	Credit Hours	Grade
EN1101	English Language 1	2	C+	IS 2102	Islamic studies 2	3	B+
SS 1101	Sudanese Studies	3	B	AR 2102	Arabic Language 2	3	B+
EM1101	Calculus1	3	C+	EN 2103	English Language 3	2	C+
PH 1101	Physics1	4	B	EM 2106	Numerical Methods	3	C+
CH 1101	Chemistry 1	3	B	EM2105	Differential Equations	3	B
CS 1101	Introduction to Computer Systems	3	B	EE 2101	Electrical Circuits 1	3	A
BI 1101	Biology	3	B	EG 2101	Engineering & Electronic Drawing	3	D
EM1102	Linear Algebra and Matrices	3	C	MD2102	Introduction to Anatomy	3	B+
AR 1201	Arabic Language 1	3	B+	EN 2204	English Language 4	2	C
IS 1201	Islamic studies 1	3	B	EG 2202	Engineering Thermodynamics	2	C
EN 1202	English Language 2	2	B	EC 2201	Semiconductor Physics and Devices	3	B+
MD1201	Introduction to Electrical & Medical Engineering	3	A	MD2204	Biomaterials	2	B
EM1203	Analytical Geometry	2	C+	CE 2201	Principles of Logic Circuits	3	B+
EM1204	Calculus2	2	B	EE 2202	Electrical Circuits 2	3	C+
PH 1202	Physics2	4	B	CS 2202	Computer Programming	3	B
CH1202	Chemistry 2	3	B+	MD2203	Introduction to Physiology	3	A
				EM 2207	Complex Variables	3	A
GPA			2.99	GPA			3.09
Third Year (2014/2015)				Fourth Year (2015/2016)			
Course Code	Course Name	Credit Hours	Grade	Course Code	Course Name	Credit Hours	Grade
EM3108	Statistics and Probability	3	C	EA 4101	Engineering Economics	2	B+
EC 3102	Electronics Circuits	3	B+	CE 4103	Microprocessor and Assembly Language Programming	3	B+
CE 3102	Design of Digital System	3	B	SC 4102	Communication Engineering	3	B+
EE 3103	Electrical Measurements & Instrumentation	4	B	MD 4109	Medical Electronics	3	B+
EE 3104	Electromagnetic	3	B	MD 4110	Artificial Organs Engineering	3	B
MD3105	Biomedical Physics	2	B	SC 4103	Digital Signal Processing	3	C
EN 3105	English Language 5	2	C	MD 4111	Introduction to Medical Radiation Physics	3	B+
MD 3209	Matlab & Labview	3	C	CS 4204	Advanced Programming Techniques	3	B
SC 3201	Signals and Systems Analysis	3	B	MD 4216	Medical Image Processing	3	C+
EE 3203	Power Electronics	3	B	MD 4213	Engineering Administration for Hospitals	2	B
MD 3208	Physiological Monitoring	3	C	MD 4215	Medical Imaging by Ionizing Radiation	3	B
MD 3207	Optics in Medicine	3	B	MD4214	Biocybernetics	3	B+
MD3206	Biomechanics	2	C	EG 4203	Research Methodology	2	B
EN 3206	English Language 6	2	C	MD4212	Bio Instrumentation	3	B
GPA			2.65	GPA			3.10


Prof. Abdeen M. A / Karim
Vice President

Dr. Mubarak Bashier
Academic Affairs Secretary

Cont. Student No. 182664 Student Name: HOSAMELDIN AHMED MOHAMED SULIMAN (Sudanese)

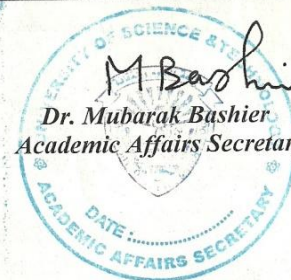
Fifth Year (2016/2017)			
Course Code	Course Name	Credit Hours	Grade
MD 5118	Neural Networks & Artificial Intelligence	3	B
MD 5117	Medical Informatics	3	A
MD5121	Rehabilitation Engineering	2	B
MD5119	Medical Imaging by Non-Ionizing Radiation	3	B
MD5120	Medical Instrumentation Engineering	3	B
CE 5105	Microcontroller & PLC	3	B+
CE 5227	Computer Networks & PACS & DICOM	2	B
MD5222	Safety in Hospitals	2	B
MD5224	Quality Control & Assurance	2	B
MD5223	Nuclear Medicine	2	B
MD5226	Telemedicine	2	A
MD5225	Workshop & Field Training	3	A
PR 5201	Project	6	B+
GPA	3.35	WCGPA	3.08



Prof. Abdeen M. A/ Karim
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Academic Affairs Secretary



Key:				
Grade	Range Percentage	Remarks		
A	80-100	Excellent	ii) Degree Classification	
B+	70-79	Very Good	Class	WCGPA Range
B	60-69	Good	First Class	3.50 – 4.00
C+	50-59	Satisfactory Above Average	Second Class–Division One	3.00 – 3.49
C	40-49	Satisfactory Below Average	Second Class–Division Two	2.50 – 2.99
D	35-39	Conditional Pass	Third Class	2.00 – 2.49
F	0-34	Fail		
U		Absent		
I		Incomplete		
Br.		Barred		
*Remark GPA and WCGPA scale out of 4				

Date of issue: 06/07/2017.