بسم الله الرحمن الرحيم

جمـــهـــوريـة الســـودان

THE REPUBLIC OF THE SUDAN

جامعة السودان للعلوم و التكنولوجيا

Sudan University of Science & Technology

College of Engineering
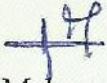
12/172653

B   0261319

CERTIFICATE

We the undersigned hereby certify that the Senate has awarded:

Ahmed Abdalla Ibrahim Mohamed (Sudanese)

the Degree of Bachelor of Engineering (Honours) in Electronics (Communications)

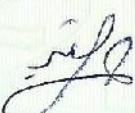(FULL TIME) after completing the prescribed course and passing the final examination

Class of Award: First Class

Cumulative Aggregate: 3.16

Date of Award: 07 December 2017
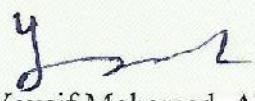
Date of Issue: 17/12/2017

2 7 DEC 2017

Dr. Elfadil Mahmoud Elkarsany

Registrar

Dr. Eisa Bashier Mohamed

Dean

Prof. Yousif Mohamed Ahmed Idris

Secretary of Academic Affairs

[[Any Alteration Invalidates this Certificate]]

بسم الله الرحمن الرحيم

جمهورية السودان

THE REPUBLIC OF THE SUDAN

جامعة السودان للعلوم والتكنولوجيا

Sudan University of Science & Technology

College of Engineering

A 0195424

12/172653

OFFICIAL TRANSCRIPT

We the undersigned hereby certify that the Senate has awarded:

Ahmed Abdalla Ibrahim Mohamed (Sudanese)

the Degree of Bachelor of Engineering (Honours) in Electronics (Communications) (FULL TIME) after completing the prescribed course and passing the final examination. The courses studied and grades obtained are as follows:

First Year: 2012/2013

First Semester				Second Semester		
Course	Hours	Grade		Course	Hours	Grade
Arabic Language 1	2	A		Islamic Culture 2	2	C+
English Language 1	2	B+		Arabic Language 2	2	A
Islamic Culture 1	2	B		English Language 2	2	B+
Calculus	3	A		Physics 2	2	A
Physics 1	3	C		Dynamics	2	B+
Fundamentals of Engineering	2	A		Chemistry	3	B+
Statics	2	B		Engineering Drawing 2	2	A
Engineering Drawing 1	2	B+		Linear Algebra and Geometry	3	B+

Sem.Hours 18 GPA 2.90 Academic Status
Total Hours 18 CGPA 2.90 -

Sem. Hours 18 GPA 2.98 Academic Status
Total Hours 36 CGPA 2.94 -

Second Year: 2013/2014

First Semester				Second Semester		
Course	Hours	Grade		Course	Hours	Grade
Islamic Culture 3	2	B+		Complex Functions	2	B+
Arabic Language 3	2	B+		C programming Language	2	B+
English Language 3	2	B		Mechanics of Materials	2	A
Defferential Equations	3	B+		Electrical Circuit Theory	2	A
Introduction to Computer Sciences	2	C+		Analog Electronics Principles	3	A+
Materials Science	2	B+		Digital Systems Design 1	3	A
Principles of Mechanical Engineering	2	A		Measurements and Instrumentations	2	A
Principles of Electrical Engineering	3	A		Vector Analysis	2	A+

Sem.Hours 18 GPA 2.95 Academic Status
Total Hours 54 CGPA 2.94 -

Sem. Hours 18 GPA 3.43 Academic Status
Total Hours 72 CGPA 3.07 -

Third Year: 2014/2015

First Semester

Course	Hours	Grade
Statistics and Probability	3	A+
Data Structure and Algorithms	2	B
Automatic Control Theory	3	A
Electronic Measurement Systems	2	A
Analog Electronics Circuits 1	3	B
Digital Systems Design 2	3	B+
MATLAB and Tools	2	A

Sem.Hours	18	GPA	3.19	Academic Status
Total Hours	90	CGPA	3.09	-

Second Semester

Course	Hours	Grade
Sudanese Studies	2	B+
Numerical Analysis	3	B
Object Oriented Programming	2	B+
Microprocessor Systems & Assembly Lang.	3	A+
Electromagnetic Fields	2	A
Analog Electronics Circuits 2	3	B
Analog Communications	3	A
Computer Aided Design	2	A

Sem. Hours	20	GPA	3.18	Academic Status
Total Hours	110	CGPA	3.11	-

Fourth Year: 2015/2016

First Semester

Course	Hours	Grade
Engineering Economics	2	B
Digital Signal Processing	3	A
Computer Architecture and Organization	3	A+
Data Communications	2	B+
Digital Communications	3	B+
Fault Tolerant Systems	2	B+
Electromagnetic Waves Propagation	3	B+

Sem.Hours	18	GPA	3.01	Academic Status
Total Hours	128	CGPA	3.09	-

Second Semester

Course	Hours	Grade
Research Methodology	2	A
Microprocessor Systems Design	3	A+
Computer Networks 1	3	B+
information Theory and Coding	2	A
Satellite Communications	3	B+
Antennas systems	3	A+
Switching and Traffic Theory	2	B+

Sem. Hours	18	GPA	3.24	Academic Status
Total Hours	146	CGPA	3.11	-

Fifth Year: 2016/2017

First Semester

Course	Hours	Grade
Very Large Scale Integrated Circuits	2	B+
Neural Networks and Fuzzy Logic	3	A
Microwave Communications	3	A+
Telecom. Networks Design and Management	3	B
Mobile Communications	3	A+
Information Security	2	A

Sem.Hours	16	GPA	3.33	Academic Status
Total Hours	162	CGPA	3.13	-

Second Semester

Course	Hours	Grade
Optical Fiber Communications	3	A
RADAR Systems	3	A
Multimedia Technology and Applications	3	A
Broad Band Networks	3	A
Advanced Topics in Communications	2	A
Graduation Project	6	A+

Sem. Hours	20	GPA	3.40	Academic Status
Total Hours	182	CGPA	3.16	-

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Sudan University of Science & Technology

A 0195425

Legend:

Grade	Grade point		Grade	Grade Point		Grade	Grade Point		Grade	Grade Point	
	From	To		From	To		From	To		From	To
Excellent:A+	3.6	4.0	Excellent: A	3.2	3.5	V.Good: B+	2.8	3.1	Good: B	2.6	2.7
Good: C+	2.4	2.5	Pass: C	2.0	2.3	Pass(Inferior): D	1.7	1.9	Fail: F	0.0	0.0
Defered: DF	–	–	Absent: Abs	0.0	0.0	Substitution:Sub	–	–			

Pass	–	Academic Warning	A.W

First Class	3.00-4.00	Second Class–Div.1	2.70-2.99	Second Class–Div.2	2.40-2.69	Third Class	2.00-2.39

Class of Award: First Class

Cumulative Aggregate: 3.16

2 7 DEC 2017

Date of Award: 07 December 2017

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Ahmed Abdalla Ibrahim Mohamed – the Degree of Bachelor of Engineering (Honours) in Electronics (Communications)