



MASTER

Mr. Sagar Sohail

born 26 February 1984 in Faisalabad

has concluded the Master of Science programme „Energy Science and Technology“
at Ulm University on 15 October 2013 in accordance with the examination regulations
and achieved the overall grade of

good

He therefore was awarded the degree of

MASTER OF SCIENCE

(M. Sc.)


Ulm, 26 November 2013

The Dean



Prof. Dr. J. Ankerhold

Chairman of the
Examination Board



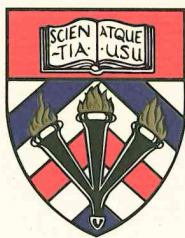
Prof. Dr. R. J. Behm

The subject of the master thesis is:

**Simulation and Modelling of Dynamic Fuel Cell System
for Automotive Applications**

Compulsory Modules	Grade	CP
Master Thesis Energy Science and Technology	1,3	30
Chemistry for Energy Science and Technology	1,9	18
Engineering	2,1	15
Materials Science	3,3	10
Energy Science and Technology	2,0	27
Elective Courses (Energy Science and Technology)	1,5	12
Additive Key Qualifications	1,7	8
Total	1,9	120

UNIVERSITY of EAST LONDON



It is hereby certified that

Sagar Sohail

having duly satisfied all prescribed conditions was

on

24 June 2010

duly admitted to the degree of

Master of Science

with Distinction

having followed an approved programme in

Mobile Communications

0823494/2

Vice-Chancellor

Secretary & Registrar

Serial No.

23477

Registration No.

2003(F)-UET-IEFR-ELECT-FD-19

University of Engineering & Technology Lahore



This is to certify that

Mr./Ms. Sagar Sohail
son/daughter of Mr. Sohail Rahi
of NFC Institute of Engineering and Fertilizer Research, Faisalabad
has completed all the requirements for the award of B.Sc.
Degree in Electrical Engineering
in December, 2007



He/She has accordingly been admitted to the Degree of
Bachelor of Science
in
Electrical Engineering

He/She has been placed in First Division.
With Honours



[Signature]
Controller of Examinations

Countersigned

[Signature]
Chancellor

Lahore

Dated: 17 APR 2015

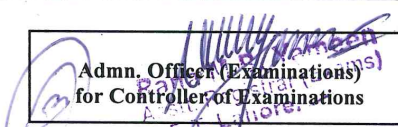




University of Engineering & Technology, Lahore

(Constituent: NFC Institute of Engineering and Fertilizer Research, Faisalabad.)

S. No. : 104234

Detailed Marks Certificate								
Registration No.		2003(F)-UET-IEFR-ELECT-FD-19		Session		2003(F)		
Name		SAGAR SOHAIL		Program		B.Sc. Electrical Engineering		
Father's Name		SOHAIL RAHI						
Term No.	Course No	Course Title	Theory		Practical		Remarks	
			Obtained Marks	Maximum Marks	Obtained Marks	Maximum Marks		
1	EE-110	Electric Circuits	69	100	38	50	PASS	
	EE-111	Computer Fundamentals-I	88	100	41	50	PASS	
	MA-113	Differential Calculus	110	150	--	--	PASS	
	ME-112	Applied Thermodynamics	69	100	21	25	PASS	
	PHY-114	Applied Physics	71	100	17	25	PASS	
	WS-115	Workshop Practice	--	--	37	50	PASS	
Term 1 : Held in Feb-Mar, 2004			Sub Total :	407	550	154	200	Term Total: 561/750
2	EE-121	Computer Fundamental-II	81	100	39	50	PASS	
	EE-122	Semi Conductor Devices	107	150	38	50	PASS	
	IS-124	Islamic and Pakistan Studies-I	63	100	--	--	PASS	
	MA-123	Integral Calculus and Vector Algebra	90	100	--	--	PASS	
	ME-120	Basic Mechanical Engineering	82	100	45	50	PASS	
	ME-125	Engineering Drawing	--	--	40	50	PASS	
Term 2 : Held in Jul-Aug, 2004			Sub Total :	423	550	162	200	Term Total: 585/750
3	EE-231	Digital Systems	73	100	40	50	PASS	
	EE-232	Data Structures-I	33	50	18	25	PASS	
	EE-234	Analogue Electronic Circuits	67	100	39	50	PASS	
	EE-235	Network Analysis	62	100	39	50	PASS	
	EE-237	Signals and Systems	65	100	--	--	PASS	
	HU-236	Communication Skills	--	--	42	50	PASS	
	MA-230	Differential Equations & Linear Algebra	93	100	--	--	PASS	
Term 3 : Held in Jan-Feb, 2005			Sub Total :	393	550	178	225	Term Total: 571/775
4	EE-240	Stochastic Processes	73	100	--	--	PASS	
	EE-241	Electrical Instrumentation	84	100	35	50	PASS	
	EE-242	Data Structure-II	33	50	17	25	PASS	
	EE-243	Electrical Machines-I	73	100	36	50	PASS	
	HU-245	Engineering Economics	48	50	--	--	PASS	
	IS-244	Islamic Studies & Pakistan Studies-II	66	100	--	--	PASS	
	MA-246	Partial Differential Equations & Comp	89	100	--	--	PASS	
Term 4 : Held in Jul-Aug, 2005			Sub Total :	466	600	88	125	Term Total: 554/725
5	EE-350	Electrical Machines-II	71	100	35	50	PASS	
	EE-351	Microprocessor Systems	76	100	31	50	PASS	
	EE-352	Power Transmission	92	100	38	50	PASS	
	EE-353	Electromagnetics	100	100	38	50	PASS	
	EE-354	Communication Systems	69	100	37	50	PASS	
Term 5 : Held in Jan, 2006			Sub Total :	408	500	179	250	Term Total: 587/750
6	EE-360	Design & Analysis of Algorithms	75	100	38	50	PASS	
	EE-361	Digital Electronic Circuits	74	100	37	50	PASS	
	EE-362	Power Distribution & Utilization	78	100	40	50	PASS	
	EE-363	Control Systems	80	100	34	50	PASS	
	EE-364	Power Electronics	86	100	39	50	PASS	
Term 6 : Held in Jun-Jul, 2006			Sub Total :	393	500	188	250	Term Total: 581/750
7	EE-473	Industrial Electronics	61	100	37	50	PASS	
	EE-475	Electronic System Design	84	100	43	50	PASS	
	EE-476	Signal Processing	80	100	42	50	PASS	
	EE-477	Computer Networks	66	100	36	50	PASS	
	EE-478	Microwave & Optical Techniques	77	100	39	50	PASS	
Term 7 : Held in Jan-Feb, 2007			Sub Total :	368	500	197	250	Term Total: 565/750
8	EE-482	Computer Architecture	81	100	42	50	PASS	
	EE-483	Project	--	--	323	350	PASS	
	EE-484	Transmission Lines & Antennas	91	100	42	50	PASS	
	EE-485	Digital Communications	80	100	39	50	PASS	
Term 8 : Held in Oct, 2007			Sub Total :	252	300	446	500	Term Total: 698/800
Requirements Completed		Requirements for Degree		Marks Obtained	Weighted %age*	Division	Date of Issue	
8 Terms		8 Terms		4702 / 6050	78.45	1st	December 12, 2007	
*Weighted %age = 60% of 1 to 6 Terms + 40% of 7 to 8 Terms								
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 5px; background-color: #f0f0f0;">Degree Complete</div> <div style="text-align: right;">  Admn. Officer (Examinations) for Controller of Examinations </div> </div>								

Serial No. P02234



Roll No. 36830

Registration No. 655-FG-2000

BOARD OF INTERMEDIATE & SECONDARY EDUCATION, FAISALABAD
INTERMEDIATE (ANNUAL) EXAMINATION, 2002
PRE-ENGINEERING GROUP

Certified that SAGAR SOHAIL ✓
son / daughter of SOHAIL RAHI ✓
Institution / District GOVERNMENT COLLEGE, FAISALABAD. ✓
has passed the Intermediate Examination IN ONE SITTING
~~XXXXXXX~~ as a REGULAR
candidate, conducted by this Board in MAY / JUNE, 2002 obtaining 806 n
out of 1100 and has been placed in Grade A. The grade awarded by the institution through internal
assessment is C. He / She has obtained the following marks in the subjects offered by him / her.

S.No.	Subjects	Marks	
		Maximum	Obtained
1	Urdu	200	143
2	English	200	131
3	Islamic Education	50	37
4	Pakistan Studies	50	38
5	Physics	200	171
6	Chemistry	200	145
7	Mathematics	200	141

Dated: 31/08/2002

This certificate is issued without alteration or erasure.
11445837660

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SECRETARY
BOARD OF INTERMEDIATE & SECONDARY
EDUCATION, FAISALABAD

Serial No. 006009



Roll No. 6905
Registration No. 02 -FLAS-98

BOARD OF INTERMEDIATE & SECONDARY EDUCATION, FAISALABAD.

SECONDARY SCHOOL CERTIFICATE(ANNUAL) EXAMINATION, 2000
SCIENCE GROUP

Certified that SAGAR SOHAIL

son/daughter of SOHAIL RAHI

School / District LA-SALLE HIGH SCHOOL, FAISALABAD.

Date of birth (in figures) 26/02/1984

(in words) TWENTY SIXTH FEBRUARY ONE THOUSAND NINE HUNDRED & EIGHTY FOUR

has passed the Secondary School Examination IN ONE SITTING as a REGULAR

candidate, conducted by this Board in MARCH / APRIL obtaining 719 marks

out of 850 and has been placed in Grade A+ His/Her Institutional Grade is A+

He / She has obtained the following marks in the subjects offered by him / her.

S.No.	Subjects	Marks	
		Maximum	Obtained
1	Urdu	150	121
2	English	150	131
3	Islamiyat	75	66
4	Pakistan Studies	75	56
5	Mathematics	100	88
6	Physics	100	85
7	Chemistry	100	83
8	Biology	100	89

Checked by: m.r

Re-checked by: Ramza

Dated: 30/06/2000

Zahid Hussain

SECRETARY
BOARD OF INTERMEDIATE & SECONDARY
EDUCATION, FAISALABAD

This certificate is issued without alteration or erasure.

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