Transcript of Modules
Diploma In Information Technology
In *Embedded Systems Program*

Name: Hassan Gamal Abdallh Mohamed **Date: September 2013 – June 2014**

Course Title	Lect. Hours	Lab Hours	Self Study & Projects	Total Hours	Credit Hours	Grades
Advanced Microprocessor	6	27	12	45	3	A
Automotive Bus Technology Standards	6	21	18	45	3	B
C Programming Language	21	21	3	45	3	B
Computer Interfacing	3	27	15	45	3	A
Creative Thinking	18	-	12	30	2	A
Data Structures and Algorithms	12	12	6	30	2	A
Device Driver	6	21	18	45	3	C
Digital Signal Processing for Embedded Systems	6	21	18	45	3	B
Effective Communication Skills	12	-	3	15	1	A
Effective Presentation Skills	24	-	6	30	2	A
Embedded C Programming	3	24	18	45	3	A
Embedded Java Programming	3	30	12	45	3	A
Embedded Linux	3	24	18	45	3	A
Embedded System Development Tools	6	30	24	60	4	A
Ethics	6	-	9	15	1	A
Interviewing Skills	18	-	12	30	2	A
Introduction to Embedded Systems	6	30	24	60	4	A
Introduction to Microprocessors and Microcontrollers	3	27	15	45	3	A
Introduction to PCB Design	3	24	18	45	3	A
Introduction to Software Engineering for Embedded Systems	3	15	12	30	2	A
Java Programming for Industrial Engineering	18	18	24	60	4	A
Leadership and Motivation	9	-	6	15	1	A
Marketing Management	18	-	12	30	2	A
MATLAB for Embedded Engineers	6	24	15	45	3	A
Microcontrollers Assembly Programming	3	36	21	60	4	B
Object-Oriented Programming using C++	24	24	27	75	5	B
Operating System Fundamentals	18	-	12	30	2	C
Real Time Embedded Control Systems	6	30	24	60	4	A
Real Time Operating Systems	6	36	18	60	4	A
Red Hat System Administration I	15	15	15	45	3	A
Team Building	9	-	6	15	1	A
Time and Stress Management	12	-	3	15	1	A
Uniprocessor Architecture	3	27	15	45	3	A
Verification and Testing of Embedded Systems	6	24	15	45	3	A
VLSI Design: Programmable Devices	6	36	18	60	4	B
Wireless Communication Systems	6	21	18	45	3	A
Total	333	645	522	1500	100	A

Performance Module (Project)

Project Title : Scanner Drone (Quad)		20	A
Project Tools : MATLAB, AVR Studio 6, MikroC 6			
Supervisor : Eng. Ahmed Al-Ashmawy			
Total		120	A

Key to Alphabetic Grades: A: 85% and above, B: 75% - 84%, C: 65% - 74%, D: 60% - 64%.

Dr. Heba Saleh

Chairman, Information Technology Institute