	First Semester				Summ	Second Semester
~ .			Pre-	Co-		
Code	Course Name	Credit	Requisite	Requisite	Code	Course Name
NG0011 FAT100	English I	8	-	-	ENG0012	English II
AT100 IYS110	Statistics Physics I	2 2	-	-	ESP102 MATH105	English for Eng. & Computer Scien Differential Calculus
CSC105	Computer Skills	4	-	-	PHYS115	Physics II
SYCH101	Thinking Skills & Learning Styles	2	-		CSC111	Computer Programming
	Total Credits	18			coonii	Total Credits
		10	1			
_	Third Semester	r	Pre-	Со-	-	Fourth Semester
ode	Course Name	Credit	Requisite	Requisite	Code	Course Name
CS181	Computer Programming II	3	CSC111	-	COE121	Logic Design
HYS116	Physics III	4	PHYS115	-	COE122	Logic Design Lab
ATH115	Integral Calculus	3	MATH105	-	CS182	Computer Programming III
ARAB101	Linguistic Skills	2	-	-	MATH116	Linear Algebra and Multi-Variable
IT131	Database	3	CSC111	-	STAT126	Calculus Statistics & Probability
11151	Database	5	csein		ARAB103	Arabic Writing
					IC101	Introduction to Islamic Culture
	Total Credits	15				Total Credits
	Fifth Semester					Sixth Semester
-		T	Pre-	Co-	T	
Code	Course Name	Credit	Requisite	Requisite	Code	Course Name
COE211	Electric Circuits	3	MATH115 PHYS116	COE212	COE213	Electronics
COE212	Electric Circuits Lab	1	-	COE211	COE214	Electronics Lab
OE223	Computer Organization	3	COE121	-	COE224	Assembly Language
CS211	Concepts of Algorithms	3	CS181	-	COE231	Human Computer Interaction (HCI)
IATH212	Discrete Mathematics	3	MATH116	-	CS214	Data Structures
IATH218	Differential Equations	3	MATH116	-	CS222	Operating Systems
IC102	Islam and Community Building	2	IC101	-		CoC Elective I
	Total Credits	18				Total Credits
	Seventh Semester					Eighth Semester
ode	Course Name	Credit	Pre- Requisite	Co- Requisite	Code	Course Name
00225	Mission and a second second second	2	COE213		COE222	Misses as a tractile of Annalises tissue
OE325	Microprocessors Systems	3	COE224	COE326	COE332	Microcontroller Applications
OE326	Microprocessors Systems Lab	1	-	COE325	COE333	Computer Systems Engineering
OE361 OE362	Signals and Systems Analysis Signals and Systems Lab	3	MATH218	COE362 COE361	COE351 COE352	Computer Networks Computer Networks Lab
CS383	Software Engineering	3	- CS222	-	IC104	Political System in Islam
IATH329	Operation Research	3	MATH116	-		Free Hours I
IC103	Economic System in Islam	2	IC101	-		COC Elective II
	Total Credits	16				Total Credits
	Ninth Semester (Optio	n A)				Tenth Semester (Option
C 1	-	T	Pre-	Co-	Course	
Code	Course Name	Credit	Requisite	Requisite	Code	Course Name
COE497	Summer Training	1	120 C.H.	-	COE415	VLSI
			COE325	COE435	COE499	Graduation Project (II)
COE434	Embedded Systems	3				
OE435	Embedded Systems Lab	1	-	COE434		COE Optional II
OE435	Embedded Systems Lab Graduation Project (I)			COE434 -		COE Optional II COE Optional III
OE435 OE498	Embedded Systems Lab Graduation Project (I) Communication Skills & Ethics	1	-			*
COE434 COE435 COE498 IT362	Embedded Systems Lab Graduation Project (I)	1 2	- 120 C.H.	-		*
OE435 OE498	Embedded Systems Lab Graduation Project (I) Communication Skills & Ethics issues	1 2 2	- 120 C.H.	-		*
DE435 DE498	Embedded Systems Lab Graduation Project (I) Communication Skills & Ethics issues COE Optional I	1 2 2 3	- 120 C.H. STAT126 -			*
DE435 DE498	Embedded Systems Lab Graduation Project (I) Communication Skills & Ethics issues COE Optional I Free Hours II Total Credits	1 2 3 3 15	- 120 C.H. STAT126 -			COE Optional III Total Credits
DE435 DE498 T362	Embedded Systems Lab Graduation Project (I) Communication Skills & Ethics issues COE Optional I Free Hours II Total Credits Ninth Semester (Optio	1 2 3 3 15 n B)	- 120 C.H. STAT126 -		Code	COE Optional III Total Credits Tenth Semester (Optional Content of
OE435 OE498 IT362 Code	Embedded Systems Lab Graduation Project (I) Communication Skills & Ethics issues COE Optional I Free Hours II Total Credits Ninth Semester (Optio Course Name	1 2 3 15 n B)	- 120 C.H. STAT126 - - - Pre- Requisite	- - - Co- Requisite	Code	COE Optional III Total Credits Tenth Semester (Optio Course Name
OE435 OE498 IT362 Code OE494	Embedded Systems Lab Graduation Project (I) Communication Skills & Ethics issues COE Optional I Free Hours II Total Credits Ninth Semester (Optio Course Name Cooperative Training I	1 2 3 15 n B) Credit 1		- - - Requisite Summer	IT362	COE Optional III Total Credits Tenth Semester (Optic Course Name Communication Skills & Ethics issues
OE435 OE498 IT362 Code	Embedded Systems Lab Graduation Project (I) Communication Skills & Ethics issues COE Optional I Free Hours II Total Credits Ninth Semester (Optio Course Name	1 2 3 15 n B)	- 120 C.H. STAT126 - - - Pre- Requisite	- - - Co- Requisite	IT362 COE415	COE Optional III Total Credits Tenth Semester (Optic Course Name Communication Skills & Ethics issues VLSI
OE435 OE498 IT362 Code OE494	Embedded Systems Lab Graduation Project (I) Communication Skills & Ethics issues COE Optional I Free Hours II Total Credits Ninth Semester (Optio Course Name Cooperative Training I	1 2 3 15 n B) Credit 1		- - - Requisite Summer	IT362	COE Optional III Total Credits Tenth Semester (Optic Course Name Communication Skills & Ethics issues VLSI CO-OP Graduation Project
DE435 DE498 T362 Code DE494	Embedded Systems Lab Graduation Project (I) Communication Skills & Ethics issues COE Optional I Free Hours II Total Credits Ninth Semester (Optio Course Name Cooperative Training I	1 2 3 15 n B) Credit 1		- - - Requisite Summer	IT362 COE415 COE496	COE Optional III
DE435 DE498 T362 Code DE494	Embedded Systems Lab Graduation Project (I) Communication Skills & Ethics issues COE Optional I Free Hours II Total Credits Ninth Semester (Optio Course Name Cooperative Training I	1 2 3 15 n B) Credit 1		- - - Requisite Summer	IT362 COE415 COE496 COE434	COE Optional III
DE435 DE498 T362 Code DE494	Embedded Systems Lab Graduation Project (I) Communication Skills & Ethics issues COE Optional I Free Hours II Total Credits Ninth Semester (Optio Course Name Cooperative Training I	1 2 3 15 n B) Credit 1		- - - Requisite Summer	IT362 COE415 COE496	COE Optional III

	Second Semester			
Code	Course Name	Credit	Pre- Requisite	Co- Requisite
ENG0012	English II	5	ENG0011	-
ESP102	English for Eng. & Computer Science	2	ENG0011	-
MATH105	Differential Calculus	3	-	-
PHYS115	Physics II	3	PHYS110	-
CSC111	Computer Programming	3	CSC105	-
	Total Credits	16		

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	Fourth Semester			
Code	Course Name	Credit	Pre- Requisite	Co- Requisite
COE121	Logic Design	3	CSC111	COE122
COE122	Logic Design Lab	1	-	COE121
CS182	Computer Programming III	3	CS181	-
MATH116	Linear Algebra and Multi-Variable Calculus	3	MATH115	-
STAT126	Statistics & Probability	3	STAT100	-
ARAB103	Arabic Writing	2	-	-
IC101	Introduction to Islamic Culture	2	-	-
	Total Credits	17		

Code	Course Name	Credit	Pre- Requisite	Co- Requisite
COE213	Electronics	3	COE211	COE214
COE214	Electronics Lab	1	COE212	COE213
COE224	Assembly Language	3	COE223	-
COE231	Human Computer Interaction (HCI)	2	CS181	-
CS214	Data Structures	3	MATH212	-
CS222	Operating Systems	3	CS182	-
	CoC Elective I	3	-	-
	Total Credits	18		

	Eighth Semester			
Code	Course Name	Credit	Pre- Requisite	Co- Requisite
COE332	Microcontroller Applications	2	COE325	-
COE333	Computer Systems Engineering	3	CS383	-
COE351	Computer Networks	3	CS222	COE352
COE352	Computer Networks Lab	1	-	COE351
IC104	Political System in Islam	2	IC101	-
	Free Hours I	3	-	-
	COC Elective II	3	-	-
	Total Credits	17		

	Total Creaks	11					
Tenth Semester (Option A)							
Course Code	Course Name	Credit	Pre- Requisite	Co- Requisite			
COE415	VLSI	3	COE213	-			
COE499	Graduation Project (II)	3	COE498	-			
	COE Optional II	3	-	-			
	COE Optional III	3	-	-			
	Total Credits	12					

tion B)

Code	Course Name	Credit	Pre- Requisite	Co- Requisite
IT362	Communication Skills & Ethics issues	2	STAT126	-
COE415	VLSI	3	COE213	COE213
COE496	CO-OP Graduation Project	3	COE495	COE495
	Free Hours II	3	-	-
COE434	Embedded Systems	3	COE325	COE325
COE435	Embedded Systems Lab	1	-	-
	Total Credits	15		