

## توزيع الساعات المعتمدة على المتطلبات :-

**Total of Credit Hours: 167**

### 1. University Requirements 12 Cr. hrs distributed as follows:

Course No.	Course Title	Cr. Hrs	Prerequisite
UR111	Islamic Culture-I	2	NA
UR112	Arabic Language-I	2	NA
UR113	English Language-I	2	NA
UR121	Islamic Culture-II	2	NA
UR122	Arabic Language-II	2	NA
UR123	English Language-II	2	NA

### 2. Faculty Requirements 32. Cr. hrs distributed as follows:

Course No.	Course Title	Cr. Hrs	Prerequisite
FR114	Mathematics-I	3	UR111
FR115	Physics-I	3	UR112
FR116	Engineering Drawing	3	UR113
FR117	Introduction to Computer	3	NA
FR124	Mathematics-II	3	FR114
FR125	Physics-II	3	FR115
FR211	Mathematics-III	3	FR124
FR221	Mathematics -IV	3	FR211
FR226	Numerical Computation	3	FR124
FR413	Engineering Economics & Management	2	Fourth-year standing
FR323	Probability & Statistics	3	FR124

Course No.	Course Title	Cr. Hrs	Prerequisite
CE313	O.O.P (Using Java)	3	CE225
EE314	Controls Systems	3	FR221/ EE127
CE315	Software Engineering	3	CE225
CE316	Computer Organization	3	CE223
CE321	Computer Architecture	3	CE316
CE322	Principles of Database	3	CE225
CE324	Microprocessors	3	CE316
ECE325	Electronic Instrumentation	3	EE127
CE326	Operating System	3	CE316
CE411	Computer Networks-I	3	ECE311
ECE412	Digital Signal Processing	2	ECE312
CE414	Computer Graphics	3	FR323
CE415	Microprocessor Interfacing	3	CE324
CE416	Course Project – I	3	Fourth-year standing
CE421	Computer Networks-II	3	ECE411
CE422	VLSI Circuit Design	3	ECE214
CE423	Artificial Intelligence	3	CE213 / CE225
CE424	Data Security	3	CE411
CE425	Real Time Computer Control & PLC	3	CE411
CE426	Course Project – II	3	CE416
CE511	Hardware Design Lang & Modeling VHDL	3	CE223
CE512	Computer & Internet Security	3	CE421/ CE424
CE521	Parallel Processing Techniques	3	CE321/ CE324
CE514	Final Project – I	3	CE426
CE523	Final Project – II	6	CE514

### 3. Department Requirements 123 Cr. hrs distributed as follows:

#### a. Compulsory 117 Cr. hrs

Course No.	Course Title	Cr. Hrs	Prerequisite
ECE118	Electronic Material	2	NA
CE126	Introduction to Programming I	3	FR117
EE127	Principle of Electrical Engineering	3	FR115
CE212	Introduction to Programming II	3	CE126
CE213	Discrete Mathematics	3	FR114/ FR117
ECE214	Electronic Devices	3	ECE118/ EE127
ECE215	Signals & Systems	2	FR124
CE216	Technical English	2	UR123
ECE222	Electronic Circuits	3	ECE214
CE223	Logic Design	4	FR117/ CE213
CE224	Web-Site Design	3	CE212
CE225	Data Structure	3	CE212
ECE311	Principles of Communication Systems	3	ECE215
ECE312	Digital Electronics	3	ECE222

#### b. Optional (1&2) 6 Cr. hrs chosen from among the following:

Course No.	Course Title	Cr. Hrs	Prerequisite
CE513 OR CE522	PLC Controllers	3	
=	Simulation & Modeling of Computers	3	
=	Data Storage Technology	3	
=	Digital Image Processing	3	
=	Multimedia Techniques	3	
=	Knowledge Engineering & Data Security	3	
=	Neural Networks	3	
=	Advanced Operating Systems	3	
=	Advanced Computer Architecture	3	
=	Selected Topics in Computer Engineering – I	3	
=	Selected Topics in Computer Engineering - II	3	