

Web Development Track ####

**\*\*Year 1\*\***

**\*\*First Semester (16 CHs)\*\* -**

AR111, Arabic Communication Skills I, 3 CH, No prerequisite -

EL111, English Communication Skills I, 3 CH, Prerequisite: EL099 -

TU170, Computing Essentials, 3 CH, No prerequisite -

GR101, Self-Learning Skills, 3 CH, No prerequisite -

MT129, Calculus and Probability, 4 CH, Prerequisite: EL099 -

**\*\*Second Semester (17 CHs)\*\* -**

AR112, Arabic Communication Skills II, 3 CH, Prerequisite: AR111 -

EL112, English Communication Skills II, 3 CH, Prerequisite: EL111 -

TM105, Introduction to Programming, 4 CH, Prerequisite: EL111 -

MT131, Discrete Mathematics, 4 CH, Prerequisite: EL111 -

University Requirement / Elective, 3 CH, No Prerequisite -

**\*\*Year 2\*\***

**\*\*First Semester (19 CHs)\*\* -**

MT132, Linear Algebra, 4 CH, Prerequisite: EL111 -

TM103, Computer Organization and Architecture, 4 CH, Prerequisite: EL111 -

TM111, Introduction to Computing and IT (I), 8 CH, Prerequisite: EL111 -

**\*\*Second Semester (16 CHs)\*\* -**

M251, Object-Oriented Programming using Java, 8 CH, Prerequisite: TM105

TM112, Introduction to Computing and IT ( II ), 8 CH, Prerequisite: TM111 -

Faculty Requirements / Electives, 3 CH, No prerequisite -

**\*\*Year 3\*\***

**\*\*First Semester (20 CHs)\*\* -**

M269, Algorithms, Data Structures and Computability, 8 CH, Prerequisite: TM105  
MT131

T227, Change, Strategy and Project at Work, 8 CH, Prerequisite: TM112

**\*\* Second Semester (19 CHs)\*\***

TM354, Software Engineering, 8 CH, Prerequisite: M251-

TT284, Web Technologies, 8 CH, Prerequisite: TM112-

Faculty Requirements / Electives, 3 CH, No prerequisite –

**\*\*Year 4\*\***

**\*\*First Semester (20 CHs)\*\***

TM352, Web, Mobile and Cloud Technologies, 8 CH, Prerequisite: TT284 -

TM356, Interaction Design and the User Experience, 8 CH, Prerequisite: TT284 -

TM471-A, WD, Project-A, 4 CH, Prerequisite: TM352 or TM354 or TM356 -

**\*\*Second Semester (8 CHs)\*\***

CAS400, Applied Studies For Computing Students, 4 CH, Prerequisite: TM352-

TM471-B, WD, Project-B, 4 CH, TM471-A

## Networking and Security Track #####

### \*\*Year 1\*\*

#### \*\*First Semester (12 CHs)\*\* -

GR101, Self-Learning Skills, 3 CH, No prerequisite -

AR111, Arabic Communication Skills I, 3 CH, No prerequisite -

EL111, English Communication Skills I, 3 CH, Prerequisite: EL099 -

TU170, Computing Essentials, 3 CH, No prerequisite -

#### \*\*Second Semester (18 CHs)\*\* -

AR112, Arabic Communication Skills II, 3 CH, Prerequisite: AR111 -

EL112, English Communication Skills II, 3 CH, Prerequisite: EL111 -

TM111, Introduction to Computing and Information Technology I, 8 CH, -  
Prerequisite: EL111

MT129, Calculus and Probability, 4 CH, Prerequisite: EL099 -

### \*\*Year 2\*\*

#### \*\*First Semester (19 CHs)\*\* -

TM105, Introduction to Programming, 4 CH, Prerequisite: EL111 -

MT131, Discrete Mathematics, 4 CH, Prerequisite: EL111 -

TM112, Introduction to Computing and Information Technology II, 8 CH, -  
Prerequisite: TM111

University Requirement / Elective, 3 CH, No prerequisite -

#### \*\*Second Semester (20 CHs)\*\* -

M251, Object-Oriented Programming using Java, 8 CH, Prerequisite: TM105

TM132, Linear Algebra, 4 CH, Prerequisite: EL111

T216A, Cisco Networking (CCNA)-A, 8 CH, Prerequisite: TM112 -

**\*\*Year 3\*\***

**\*\*First Semester (20 CHs)\*\* -**

T216B, Cisco Networking (CCNA)-B, 8 CH, Prerequisite: T216A

T227, Change, Strategy and Project at Work, 8 CH, Prerequisite: TM112 -

TM103, Computer Organization and Architecture, 4 CH, Prerequisite: EL111 -

**\*\*Second Semester (19 CHs)\*\* -**

T316, Advanced Networking, 8 CH, Prerequisite: T216B-

TM352, Web, Mobile and Cloud Technologies, 8 CH, Prerequisite: M251-

Faculty Requirements / Electives, 3 CH, No prerequisite –

**\*\*Year 4\*\***

**\*\*First Semester (15 CHs)\*\* -**

T318, Applied Network Security, 8 CH, Prerequisites: T216B, TM260 -

TM471-A, N&S, Project-A, 4 CH, Prerequisites: T316 or T318 or TM355-

Faculty Requirements / Electives, 3 CH, No prerequisite -

**\*\*Second Semester (8 CHs)\*\* -**

TM471-B, N&S, Project-B, 4 CH, Prerequisites: TM471-A -

CAS400 Applied Studies For Computing Students, 4 CH, Prerequisite: TM352

Computer Science Track ####

Year 1 ### (Computer Science)

**\*\*First Semester (16 Credit Hours)\*\* -**

GR101: Self-Learning Skills, 3 CH, No prerequisite -

AR111: Arabic Communication Skills I, 3 CH, No prerequisite -

EL111: English Communication Skills I, 3 CH, Prerequisite: EL099 -

TU170: Computing Essentials, 3 CH, No prerequisite -

MT129: Calculus and Probability, 4 CH, Prerequisite: EL099 -

**\*\*Second Semester (17 Credit Hours)\*\* -**

AR112: Arabic Communication Skills II, 3 CH, Prerequisite: AR111 -

EL112: English Communication Skills II, 3 CH, Prerequisite: EL111 -

MT131: Discrete Mathematics, 4 CH, Prerequisite: EL111 -

TM105: Introduction to Programming, 4 CH, Prerequisite: EL111 -

University Requirement / Elective, 3 CH, No prerequisite -

Year 2 ### (Computer Science)

**\*\*First Semester (20 Credit Hours)\*\* -**

TM111: Introduction to Computing and Information Technology I, 8 CH, -  
Prerequisite: EL111

MT132: Linear Algebra, 4 CH, Prerequisite: EL111 -

M251: Object-Oriented Programming using Java, 8 CH, Prerequisite: TM105 -

**\*\*Second Semester (20 Credit Hours)\*\* -**

TM112: Introduction to Computing and Information Technology II, 8 CH, -  
Prerequisite: TM111

TM103: Computer Organization and Architecture, 4 CH, Prerequisite: EL111 -

M269: Algorithms, Data Structures, and Computability, 8 CH, Prerequisites: -  
MT131, TM105

Year 3 ### (Computer Science)

**\*\*First Semester (16 Credit Hours)\*\* -**

TM240: Computer Graphics and Multimedia, 4 CH, Prerequisites: MT132, -  
TM105

T227: Change, Strategy, and Project at Work, 8 CH, Prerequisite: TM112 -

TM298: Operating Systems, 4 CH, Prerequisites: TM103, TM105 -

**\*\*Second Semester (16 Credit Hours)\*\* -**

TM351: Data Management and Analysis, 8 CH, Prerequisites: M251 & M269 -

TM354: Software Engineering, 8 CH, Prerequisites: M251 & M269 -

Year 4 ### (Computer Science)

**\*\*First Semester (15 Credit Hours)\*\* -**

TM366: Artificial Intelligence, 8 CH, Prerequisite: M269 -

TM471-A: CS Project-A, 4 CH, Prerequisites: TM351 or TM354 -

Faculty Requirements / Electives, 3 CH, No prerequisite -

**\*\*Second Semester (11 Credit Hours)\*\* -**

TM471-B: CS Project-B, 4 CH, Prerequisite: TM471-A -

CAS400: Applied Studies For Computing Students, 4 CH, Prerequisite: TM354 -

Faculty Requirements / Electives, 3 CH, No prerequisite -

Computing with Business Track ###

**\*\*Year 1\*\***

**\*\*First Semester (16 CHs)\*\* -**

AR111, Arabic Communication Skills I, 3 CH, No prerequisite -

EL111, English Communication Skills I, 3 CH, No prerequisite -

TU170, Computing Essentials, 3 CH, No prerequisite -

GR101, Self-Learning Skills, 3 CH, No prerequisite -

MT129, Calculus and Probability, 4 CH, Prerequisite: EL099 -

**\*\*Second Semester (17 CHs)\*\* -**

AR112, Arabic Communication Skills II, 3 CH, Prerequisite: AR111 -

EL112, English Communication Skills II, 3 CH, Prerequisite: EL111 -

TM105, Introduction to Programming, 4 CH, Prerequisite: EL111 -

MT131, Discrete Mathematics, 4 CH, Prerequisite: EL111 -

University Requirement / Elective, 3 CH, No Prerequisite -

**\*\*Year 2\*\***

**\*\*First Semester (20 CHs)\*\* -**

MT132, Linear Algebra, 4 CH, Prerequisite: EL112 -

TM111, Introduction to Computing and Information, 8 CH, Prerequisite: EL111 -

BUS110, Introduction to Business, 8 CH, Prerequisite: EL111 -

**\*\*Second Semester (20 CHs)\*\* -**

B207A, Shaping business opportunities A, 8 CH, Prerequisite: BUS110 -

M251, Object-Oriented Programming using Java, 8 CH, Prerequisite: TM105-

TM103, Computer Organization and Architecture, 4 CH, Prerequisite: EL111 -

**\*\*Year 3\*\* -**

**\*\*First Semester (19 CHs)\*\* -**

M269, Algorithms Data Structures and Computability, 8 CH, Prerequisite: -  
TM105

B207B, Shaping business opportunities B, 8 CH, Prerequisite: B207A -

Faculty Requirements/ Electives, 3 CH, No pre requisite -

**\*\*Second Semester (16 CHs)\*\* -**

TM352, Web Mobile and Cloud Technologies, 8 CH, Prerequisite: M251 -

BUS310, Strategic Management, 8 CH, Prerequisite: B207B-

**\*\*Year 4\*\* -**

**\*\*First Semester (15 CHs)\*\* -**

TM351, Data Management and Analysis, 8 CH, Prerequisite: M269 -

TM471-A, CwB Project-A, 4 CH, Prerequisite: BUS310

Faculty Requirements / Electives, 3 CHs, No prerequisite -

**\*\*Second Semester (8 CHs)\*\* -**

TM471-B, CwB Project-B, 4 CH, Prerequisite: TM471-A -

CAS400, Applied Studies For Computing Students, 4 CH, Prerequisite: TM352 -



## Information Technology & Computing Track ###

### \*\*Year 1\*\*-

#### \*\*First Semester (16 CHs)\*\*

AR111, Arabic Communication Skills I, 3 CH, No prerequisite -

GR101, Self-Learning Skills, 3 CH, No prerequisite -

EL111, English Communication Skills I, 3 CH, Prerequisite: EL099 -

TU170, Computing Essentials, 3 CH, No prerequisite -

MT129, Calculus and Probability, 4 CH, Prerequisite: EL099 -

#### \*\*Second Semester (17 CHs)\*\*

AR112, Arabic Communication Skills II, 3 CH, Prerequisite: AR111 -

EL112, English Communication Skills II, 3 CH, Prerequisite: EL111 -

TM103, Computer Organization and Architecture, 4 CH, Prerequisite: EL111 -

MT131, Discrete Mathematics, 4 CH, Prerequisite: EL111 -

University Requirement / Elective, 3 CH, No prerequisite , - -

### \*\*Year 2\*\*-

#### \*\*First Semester (16 CHs)\*\*

TM105, Introduction to Programming, 4 CH, Prerequisite: EL111 -

TM111, Introduction to Computing and Information Technology I, 8 CH,  
Prerequisite: EL111-

MT132, Linear Algebra, 4 CH, Prerequisite: EL111 -

#### \*\* Second Semester (19 CHs)\*\*

TM112, Introduction to Computing and Information Technology II, CH8, -  
Prerequisite: TM111

M251, Object-Oriented Programming using Java, 8 CH, Prerequisite: TM105 -

Faculty Requirements / Electives, 3 CH, No prerequisite , - -

**\*\*Year 3\*\*-**

**\*\*First Semester (16 CHs)\*\***

M269, Algorithms, Data Structures and Computability, 8 CH, TM105 –  
T215A, Communication and Information Technologies-A, 8 CH Prerequisite: -  
TM112

**\*\*Second Semester (19 CHs)\*\***

T215B, Communication and Information Technologies-B, 8CH, Prerequisite:  
T215A

TM351, Data Management and Analysis, 8 CH, Prerequisite: M269

Faculty Requirements / Electives, 3 CH, No prerequisite

**\*\*Year 4\*\*-**

**\*\*First Semester (20 CHs)\*\***

TM354, Software Engineering, 8 CH, Prerequisite: M251  
TM355, Communications Technology, 8 CH, Prerequisite: T215B  
TM471-A, ITC, Project-A, 4 CH, Prerequisite: TM351

**\*\*Second Semester (8 CHs)\*\***

TM471-B, ITC, Project-B, 4 CH, Prerequisite: TM471-A  
CAS400, Applied Studies For Computing Students, 4 CH, Prerequisite: TM354