



Total Credit Hours (160) Hrs.

A. First Field: University Compulsory Requirements: (18) Cr. Hr.

| Course No. | Course Title  | Cr.Hrs | Prerequisite | Kind of Learning |
|------------|---|--------|--------------|------------------|
| 116001     | Military Science *                                    | 3      | ---          | ONLINE           |
| 116101     | National Education                                    | 3      | ---          | ONLINE           |
| 116102     | Entrepreneurship, Innovation, and Leadership skills   | 3      | ---          | ONLINE           |
| 116103     | Communication and Contact Skills (Arabic Language)    | 3      | 116099       | Physical         |
| 116107     | Communication and Contact Skills (English Language 1) | 3      | 116098       | Physical         |
| 116108     | Communication and Contact Skills (English Language 2) | 3      | 116107       | Physical         |
| 116109     | Voluntary Community Service                           | 0      | ---          | ONLINE           |

\* Compulsory for Jordanian Students

B. University Elective Courses (9) Cr. Hr.

The student studies 9 credit hours from the table below:

| Course No. | Course Title  | Cr. Hr. | Prerequisite | Kind of Learning |
|------------|---|---------|--------------|------------------|
| 116105     | Thinking Skills                                     | 3       | ---          | Blended          |
| 116106     | Economic Culture                                    | 3       | ---          | Blended          |
| 116111     | Language Skills (1) (European or Eastern languages) | 3       | ---          | Blended          |
| 116112     | Language Skills (2) (European or Eastern languages) | 3       | 116111       | Blended          |
| 116114     | Introduction to Project Management                  | 3       | ---          | Blended          |
| 116133     | Human Vision & Civilization 1                       | 3       | ---          | Blended          |
| 116140     | Human Rights  | 3       | ---          | Blended          |
| 116143     | Legal Culture                                       | 3       | ---          | Blended          |
| 216102     | Data Analysis Skills                                | 3       | ---          | Blended          |
| 216104     | Digital Culture                                     | 3       | ---          | Blended          |
| 216105     | Health Culture                                      | 3       | ---          | Blended          |

Notes: -  
All students must take level examinations in Arabic Language, English language and Computer skills. Student who fails to pass in any examinations (less than 50 %) must successfully pass the remedial course which He /She did not pass.

Codes used in Curriculum:

- (610) Electrical Eng. (620) Mechanical Eng.
- (611) Renewable Energy Eng. (615) Alternative Energy Technology
- (640) Mechatronics Eng. (650) Communications & Electronics Eng. (670) Civil Eng.

Second: Faculty Requirements: (24) Cr. Hr.

| Course No. | Course Title                 | Cr.Hr. | Prerequisite | Kind of Learning |
|------------|------------------------------|--------|--------------|------------------|
| 216111     | Calculus (1)                 | 3      | ---          | Physical         |
| 250102     | Calculus (2)                 | 3      | 216111       | Physical         |
| 216131     | General Physics (1)          | 3      | ---          | Physical         |
| 216132     | General Physics (2)          | 3      | 216131       | Blended          |
| 620130     | Manual Engineering Drawing   | 1      | ---          | Physical         |
| 620132     | Computer Engineering Drawing | 1      | 620130       | Physical         |
| 620171     | Engineering Workshop (1)     | 1      | ---          | Physical         |
| 610263     | Programming Language         | 3      | 216099       | Blended          |
| 640253     | Engineering Skills           | 3      | 116108       | ONLINE           |
| 610550     | Entrepreneurship             | 3      | 640253       | ONLINE           |

Third: Department Requirements (109) Cr.Hrs.

A. Compulsory Requirements: (80) Cr.Hrs.

| Course No. | Course Title                | Cr.H | Prerequisite  | Kind of Learning |
|------------|-----------------------------|------|---------------|------------------|
| 610214     | Electrical Engineering      | 3    | 216132        | Physical         |
| 620211     | Statics                     | 3    | 250102+216131 | Blended          |
| 620212     | Dynamics                    | 3    | 620211        | Blended          |
| 620213     | Strength of materials       | 3    | 620211        | Physical         |
| 620232     | Mechanical Drawing          | 2    | 620132        | Physical         |
| 620344     | Engineering Measurements    | 3    | 610214        | Blended          |
| 620274     | Material Science            | 3    | 216141        | ONLINE           |
| 620333     | Theory of Machines          | 3    | 620212        | Physical         |
| 620330     | Fluid Mechanics (1)         | 3    | 620212+650760 | Blended          |
| 620323     | Thermodynamics (1)          | 3    | 216132+250102 | Physical         |
| 620324     | Thermodynamics (2)          | 3    | 620323        | Physical         |
| 620428     | Fluid Mechanics(2)          | 3    | 620320+610262 | Physical         |
| 620434     | Machine Design (1)          | 3    | 620213        | Physical         |
| 620435     | Machine Design (2)          | 3    | 620434+620232 | Physical         |
| 620443     | Automatic Control           | 3    | 620344        | Physical         |
| 620420     | Heat Transfer (1)           | 3    | 620323+650760 | Physical         |
| 620437     | Reverse Engineering         | 3    | 620435        | Blended          |
| 620436     | Exercises in Machine Design | 1    | *620435       | Physical         |
| 620477     | Production Processes        | 3    | 62074+620172  | Blended          |
| 620414     | Mechanical vibrations       | 3    | 650260+620212 | Physical         |
| 620529     | Internal combustion engines | 3    | 620324        | Physical         |
| 620522     | Air conditioning (1)        | 3    | 620420        | Physical         |

Student Name: \_\_\_\_\_  
Student No : \_\_\_\_\_  
Academic Advisor: \_\_\_\_\_

B. Compulsory Support Requirements: (20) Cr. Hr.

| Course No. | Course Title                    | Cr.Hrs. | Prerequisite   | Kind of Learning |
|------------|---------------------------------|---------|----------------|------------------|
| 620523     | Design of Sanitary Systems      | 3       | 620320         | Blended          |
| 610219     | Electrical Engineering Lab.     | 1       | 610214(*)      | Physical         |
| 620427     | Thermal Lab.                    | 1       | 620420(*)      | Physical         |
| 620520     | Internal combustion engine Lab. | 1       | 620529 (*)     | Physical         |
| 620429     | Fluid Mechanics Lab.            | 1       | 620428(*)      | Physical         |
| 620415     | Mechanical vibration lab.       | 1       | 620414(*)      | Physical         |
| 620314     | Strength of Material lab.       | 1       | 620213(*)      | Physical         |
| 620345     | Engineering Measurements Lab.   | 1       | 620344(*)      | Physical         |
| 620457     | Control systems Lab.            | 1       | 620443(*)      | Physical         |
| 620440     | Engineering project (1)         | 1       | (100) Cr. Hrs. | Physical         |
| 620540     | Engineering project (2)         | 2       | 620499+620440  | Physical         |
| 620499     | Engineering Training (**)       | 3       | (115) Cr. Hrs. | Physical         |

C. Elective Requirements: (9) Cr. Hr.

| Course No. | Course Title                       | Cr.Hrs | Prerequisite | Kind of Learning |
|------------|------------------------------------|--------|--------------|------------------|
| 216141     | General Chemistry (1)              | 3      | ---          | Physical         |
| 216143     | General Chemistry Lab.             | 1      | 216141       | Physical         |
| 250202     | Calculus (3)                       | 3      | 250102       | Physical         |
| 610262     | Engineering Analysis (2) (Blended) | 3      | 650260       | Blended          |
| 620172     | Engineering Workshop (2)           | 1      | 620171       | Physical         |
| 620301     | Applied Engineering mathematics    | 3      | 650260       | Physical         |
| 620302     | Finite Element Method              | 3      | 620301       | Physical         |
| 650260     | Engineering Analysis (1) (Blended) | 3      | 250102       | Blended          |

(\*) Concurrent  
(\*\*) Seven weeks (280 hours) of Training after completing (115) Cr.Hrs.

*Handwritten signature and date:*  
c.c.c. / 1/1/1c