

Guidance Plan for Curriculum 2017/2018 in the Department of CIVIL Engineering

First Year

| First Semester | | | | | | Second Semester | | | | | |
|----------------|-----------------------|--------------|---------------------|-----------|---|-----------------|---------------------------|--------------|---------------------|-----------|-------------------------------|
| Course Number | Course Title | Credit Hours | Weekly Credit Hours | | Prerequisite or Co-requisite* | Course Number | Course Title | Credit Hours | Weekly Credit Hours | | Prerequisite or Co-requisite* |
| | | | Lecture | Practical | | | | | Lecture | Practical | |
| 110102101 | General Physics 1 | 3 | 3 | - | - | 110102102 | General Physics 2 | 3 | 3 | - | 110102101 |
| 110102103 | General Physics Lab 1 | 1 | - | 3 | 110102101* | 110101102 | Calculus 2 | 3 | 3 | - | 110108101 |
| 110108101 | Calculus 1 | 3 | 3 | - | - | 110103107 | Engineering Chemistry | 3 | 3 | - | - |
| 121601102 | Arabic Language | 3 | 3 | - | Level Test in Arabic Language or 121601099 | 110103108 | Engineering Chemistry lab | 1 | - | 3 | 110103107* |
| 121602101 | English Language | 3 | 3 | - | Level Test in English Language or 121602099 | - | University Elective | 3 | 3 | - | - |
| 111404118 | Citizenship Education | 3 | 3 | - | - | 111404117 | Military Sciences | 3 | 3 | - | - |
| Total | | | 16 | | | Total | | | 16 | | |

Second Year

| First Semester | | | | | | Second Semester | | | | | |
|----------------|-----------------------------------|--------------|---------------------|-----------|--|-----------------|------------------------------------|--------------|---------------------|-----------|-------------------------------|
| Course Number | Course Title | Credit Hours | Weekly Credit Hours | | Prerequisite or Co-requisite* | Course Number | Course Title | Credit Hours | Weekly Credit Hours | | Prerequisite or Co-requisite* |
| | | | Lecture | Practical | | | | | Lecture | Practical | |
| 110400201 | Manual Engineering Drawing | 2 | 1 | 3 | - | 110403242 | Probability & Statistical | 3 | 3 | 0 | 110101102 |
| 110400101 | Engineering Workshop | 1 | .5 | 2 | - | 110400203 | Ethics and Communication Skills | 3 | 3 | 0 | 111405110 |
| 110401211 | Static | 3 | 3 | - | 110120101 or 110108101 | 110402212 | Strength Of Material | 3 | 3 | 0 | 110101211 |
| 110101201 | Calculus 3 | 3 | 3 | - | 110101102 | 110402330 | Strength Of Material Lab | 1 | 0 | 3 | 110402212 or 110401214 |
| 110101203 | Ordinary Differential Equations 1 | 3 | 3 | - | 110101102 | 110400202 | Computer Aided Engineering Drawing | 1 | 0 | 3 | 110400201 |
| 110108112 | Computer Programming | 3 | 3 | - | Level Test in Computer Skills or 110108099 | 110402303 | Numerical Methods for Engineering | 3 | 3 | 0 | 110108112 or 110101203 |
| - | University Elective | 3 | 3 | - | - | - | University Elective | 3 | 3 | - | - |
| Total | | | 18 | | | Total | | | 17 | | |

Third Year

| First Semester | | | | | | Second Semester | | | | | |
|----------------|---|--------------|---------------------|-----------|-------------------------------|-----------------|-------------------------------------|--------------|---------------------|-----------|-------------------------------|
| Course Number | Course Title | Credit Hours | Weekly Credit Hours | | Prerequisite or Co-requisite* | Course Number | Course Title | Credit Hours | Weekly Credit Hours | | Prerequisite or Co-requisite* |
| | | | Lecture | Practical | | | | | Lecture | Practical | |
| 110402310 | Fluid Mechanics (I) | 3 | 3 | - | 110101203 | 110401368 | Highway Engineering and Design | 3 | 3 | 0 | 110401365 |
| 110401365 | Surveying | 3 | 2 | 3 | 110400202 | 110406260 | Applied mathematics | 3 | 3 | 0 | 110101203 |
| 110401337 | Building Materials | 3 | 3 | - | 110103107&110402212* | 110401356 | Hydraulics | 3 | 3 | 0 | 110402310 |
| 110401339 | Building Materials Lab | 1 | 0 | 3 | 110401337* | 110401358 | Fluid Mechanics and Hydraulics Lab. | 1 | 0 | 3 | 110401356 |
| 110401315 | Structural Analysis | 3 | 3 | - | 110402212 | 110401336 | Geotechnical Engineering | 3 | 3 | 0 | +110103107 110402212 |
| 110401367 | Transportation and Engineering Planning | 3 | 3 | - | 110403242 | 110401338 | Geotechnical Engineering Lab. | 1 | 0 | 3 | 110401336 |
| | | | | | | 110401346 | Construction Project Management | 3 | 3 | 0 | 110401337 |
| Total | | | 16 | | | Total | | | 17 | | |

Fourth Year

| First Semester | | | | | | Second Semester | | | | | |
|----------------|-------------------------------|--------------|---------------------|-----------|-------------------------------|-----------------|---------------------------------------|--------------|---------------------|-----------|-------------------------------|
| Course Number | Course Title | Credit Hours | Weekly Credit Hours | | Prerequisite or Co-requisite* | Course Number | Course Title | Credit Hours | Weekly Credit Hours | | Prerequisite or Co-requisite* |
| | | | Lecture | Practical | | | | | Lecture | Practical | |
| 110401466 | Pavement Materials and Design | 3 | 3 | 0 | 110401368 | 110401468 | Traffic Engineering | 3 | 3 | 0 | 110401467 |
| 110401467 | Highway Engineering lab. | 1 | 0 | 3 | 110401466* | 110401348 | Construction Contracts Administration | 3 | 3 | 0 | 110401337 |
| 110401421 | Reinforced Concrete (1) | 3 | 3 | 0 | 110401315+ 110401337 | 110401422 | Reinforced Concrete (2) | 3 | 3 | 0 | 110401421 |
| 110401425 | Steel Structure | 3 | 3 | 0 | 110401315 | 110401454 | Engineering Hydrology | 2 | 2 | 0 | 110402310 |
| 110401455 | Wastewater Engineering | 3 | 3 | 0 | 110401356 | 110401436 | Engineering Geology | 3 | 2 | 3 | 110401336 |
| 110401435 | Foundation Engineering | 3 | 3 | 0 | 110401336 | | Specialty Elective | 3 | 3 | 0 | |
| Total | | | 16 | | | | Total | | 17 | | |

| Summer semester after fourth year | | | | | |
|-----------------------------------|--------------------|--------------|---------------------|-----------|--|
| Course Number | Course Title | Credit Hours | Weekly Credit Hours | | Prerequisite or Co-requisite* |
| | | | Lecture | Practical | |
| 150401500 | Practical training | 3 | | 3 | The student should pass at least 112 credit hours from the curriculum before starting the practical training Including (110400203) |
| Total | | | 3 | | |

Fifth Year

| First Semester | | | | | | Second Semester | | | | | |
|----------------|---------------------------|--------------|---------------------|-----------|---|-----------------|------------------------|--------------|---------------------|-----------|-------------------------------|
| Course Number | Course Title | Credit Hours | Weekly Credit Hours | | Prerequisite or Co-requisite* | Course Number | Course Title | Credit Hours | Weekly Credit Hours | | Prerequisite or Co-requisite* |
| | | | Lecture | Practical | | | | | Lecture | Practical | |
| | University Elective | 3 | 3 | 0 | | | University Elective | 3 | 3 | 0 | |
| 110401598 | Graduation Project (1) | 1 | 0 | 3 | The student should pass at least 120 credit hours from the curriculum | 110401599 | Graduation Project (2) | 2 | 0 | 6 | 110401598 |
| 110401456 | Environmental Engineering | 3 | 2 | 3 | 110401455 | | Specialty Elective | 3 | 3 | 0 | |
| | Specialty Elective | 3 | 3 | 0 | | | Specialty Elective | 3 | 3 | 0 | |
| | Specialty Elective | 3 | 3 | 0 | | | | | | | |
| Total | | 13 | | | | Total | | 11 | | | |