

Civil Engineering Department

Preparatory Level

First semester

| No. | Course Code | Course Title | Hours | | | | Exam time (Hr) | Examination marks | | | | |
|--------------|-------------|----------------------------------------|-------|-----|-----|-----------|----------------|-------------------|------------|-----------|------------|------------|
| | | | Lec | Tut | Lab | Total | | Mid term | Class work | Prac/Oral | Final exam | Total |
| 1 | BAS011 | Mathematics (1) | 3 | 2 | - | 5 | 3 | 40 | 35 | - | 75 | 150 |
| 2 | BAS021 | Physics (1) | 3 | 1 | 1 | 5 | 3 | 25 | 25 | 25 | 75 | 150 |
| 3 | BAS031 | Mechanics (1) | 2 | 2 | - | 4 | 3 | 25 | 25 | - | 50 | 100 |
| 4 | BAS051 | Engineering Drawing and Projection (1) | 2 | 3 | - | 5 | 3 | 30 | 30 | - | 65 | 125 |
| 5 | BAS061 | Production Technology | 2 | - | 3 | 5 | 3 | 20 | 20 | 20 | 65 | 125 |
| 6 | HUM031 | Introduction to Engineering Sciences | 2 | - | - | 2 | 2 | 15 | 10 | - | 25 | 50 |
| 7 | HUM011 | English Language (1) | 2 | - | - | 2 | 2 | 15 | 10 | - | 25 | 50 |
| Total | | | | | | 28 | | | | | | 750 |

Second semester

| No. | Course Code | Course Title | Hours | | | | Exam time (Hr) | Examination marks | | | | |
|--------------|-------------|------------------------------------------|-------|-----|-----|-----------|----------------|-------------------|------------|-----------|------------|------------|
| | | | Lec | Tut | Lab | Total | | Mid term | Class work | Prac/Oral | Final exam | Total |
| 1 | BAS012 | Mathematics (2) | 3 | 2 | - | 5 | 3 | 40 | 35 | - | 75 | 150 |
| 2 | BAS022 | Physics (2) | 3 | 1 | 1 | 5 | 3 | 25 | 25 | 25 | 75 | 150 |
| 3 | BAS032 | Mechanics (2) | 2 | 2 | - | 4 | 3 | 25 | 25 | - | 50 | 100 |
| 4 | BAS052 | Engineering Drawing and Projection (2) | 1 | 3 | - | 4 | 3 | 20 | 30 | - | 50 | 100 |
| 5 | BAS041 | Engineering Chemistry | 2 | - | 2 | 4 | 3 | 20 | 20 | 20 | 40 | 100 |
| 6 | CEE041 | Introduction to Computer and Programming | 2 | - | 2 | 4 | 3 | 20 | 20 | 20 | 40 | 100 |
| 7 | HUM012 | English Language (2) | 2 | - | - | 2 | 2 | 15 | 10 | - | 25 | 50 |
| Total | | | | | | 28 | | | | | | 750 |

First Level

First semester:

| NO. | Course Code | Course Title | Hours | | | | Exam time (Hr) | Examination marks | | | | |
|--------------|-------------|-----------------------------------------|-------|-----|-----|-----------|----------------|-------------------|------------|-----------|------------|------------|
| | | | Lec | Tut | Lab | Total | | Mid term | Class work | Prac/Oral | Final exam | Total |
| 1 | CVE111 | Structural Analysis (1) | 3 | 2 | - | 5 | 3 | 30 | 30 | - | 65 | 125 |
| 2 | CVE121 | Properties and Testing of Materials (1) | 2 | 1 | 1 | 4 | 3 | 20 | 20 | 20 | 65 | 125 |
| 3 | CVE161 | Civil Drawing | 2 | 4 | - | 6 | 3 | 40 | 35 | - | 75 | 150 |
| 4 | HUM113 | Technical English | 2 | - | - | 2 | 2 | 15 | 10 | - | 25 | 50 |
| 5 | HUM 13X | Elective | 2 | - | - | 2 | 2 | 15 | 10 | - | 25 | 50 |
| 6 | BAS113 | Mathematics (3) | 2 | 2 | - | 4 | 3 | 25 | 25 | - | 50 | 100 |
| 7 | ARC139 | Building Construction | 2 | 3 | - | 5 | 3 | 40 | 50 | - | 60 | 150 |
| Total | | | | | | 28 | | | | | | 750 |

Second semester:

| NO. | Course Code | Course Title | Hours | | | | Exam time (Hr) | Examination marks | | | | |
|--------------|-------------|-----------------------------------------|-------|-----|-----|-----------|----------------|-------------------|------------|-----------|------------|------------|
| | | | Lec | Tut | Lab | Total | | Mid term | Class work | Prac/Oral | Final exam | Total |
| 1 | CVE112 | Structural Analysis (2) | 3 | 2 | - | 5 | 3 | 30 | 30 | - | 65 | 125 |
| 2 | CVE122 | Properties and Testing of Materials (2) | 2 | 1 | 1 | 4 | 3 | 20 | 20 | 20 | 65 | 125 |
| 3 | CVE162 | Fluid Mechanics | 3 | 1 | 1 | 5 | 3 | 20 | 20 | 20 | 65 | 125 |
| 4 | CVE181 | Plane Surveying | 2 | 1 | 2 | 5 | 3 | 25 | 25 | 25 | 75 | 150 |
| 5 | HUM 13X | Elective | 2 | - | - | 2 | 2 | 15 | 10 | - | 25 | 50 |
| 6 | BAS116 | Probability and Statistics | 2 | 1 | - | 3 | 3 | 25 | 25 | - | 50 | 100 |
| 7 | CEE181 | Electrical Engineering | 2 | 1 | 1 | 4 | 3 | 15 | 15 | 15 | 30 | 75 |
| Total | | | | | | 28 | | | | | | 750 |

Second Level

First semester

| NO | Course Code | Course Title | Hours | | | | Exam time (Hr) | Examination marks | | | | |
|--------------|-------------|----------------------------------------------|-------|-----|-----|-----------|----------------|-------------------|------------|-----------|------------|------------|
| | | | Lec | Tut | Lab | Total | | Mid term | Class work | Prac/Oral | Final exam | Total |
| 1 | CVE213 | Structural Analysis (3) | 3 | 2 | - | 5 | 3 | 30 | 30 | - | 65 | 125 |
| 2 | CVE223 | Properties and Testing of Materials (3) | 2 | 1 | 1 | 4 | 3 | 20 | 20 | 20 | 65 | 125 |
| 3 | CVE231 | Design of Reinforced Concrete Structures (1) | 3 | 2 | - | 5 | 3 | 40 | 35 | - | 75 | 150 |
| 4 | CVE251 | Geotechnical Engineering (1) | 2 | - | 1 | 3 | 3 | 20 | 20 | 20 | 40 | 100 |
| 5 | CVE263 | Irrigation and Drainage Engineering | 2 | 2 | - | 4 | 3 | 25 | 25 | - | 50 | 100 |
| 6 | CVE282 | Topographical Surveying | 2 | 1 | 1 | 4 | 3 | 20 | 20 | 20 | 40 | 100 |
| 7 | HUM211 | Feasibility Studies and Operations Research | 2 | 1 | - | 3 | 2 | 15 | 10 | - | 25 | 50 |
| Total | | | | | | 28 | | | | | | 750 |

Second semester:

| NO. | Course Code | Course Title | Hours | | | | Exam time (Hr) | Examination marks | | | | |
|--------------|-------------|----------------------------------------------|-------|-----|-----|-----------|----------------|-------------------|------------|-----------|------------|------------|
| | | | Lec | Tut | Lab | Total | | Mid term | Class work | Prac/Oral | Final exam | Total |
| 1 | CVE214 | Structural Analysis using Computer | 3 | 2 | 2 | 7 | 3 | 30 | 30 | 40 | 100 | 200 |
| 2 | CVE232 | Design of Reinforced Concrete Structures (2) | 3 | 2 | - | 5 | 3 | 40 | 35 | - | 75 | 150 |
| 3 | CVE252 | Geotechnical Engineering (2) | 2 | - | 1 | 3 | 3 | 20 | 20 | 20 | 40 | 100 |
| 4 | CVE264 | Hydraulics | 3 | 1 | 1 | 5 | 3 | 20 | 20 | 20 | 65 | 125 |
| 5 | CVE291 | Field Training (1) | - | - | 2 | 2 | - | - | 25 | 25 | - | 50 |
| 6 | HUM212 | Engineering Economics and Project Management | 2 | - | - | 2 | 2 | 15 | 10 | - | 25 | 50 |
| 7 | BAS262 | Mechanical Engineering | 2 | 1 | 1 | 4 | 3 | 15 | 15 | 15 | 30 | 75 |
| Total | | | | | | 28 | | | | | | 750 |

Third Level

First semester

| NO. | Course Code | Course Title | Hours | | | | Exam time (Hr) | Examination marks | | | | |
|--------------|-------------|-------------------------------------------------|-------|-----|-----|-----------|----------------|-------------------|------------|-----------|------------|------------|
| | | | Lec | Tut | Lab | Total | | Mid term | Class work | Prac/Oral | Final exam | Total |
| 1 | CVE333 | Design of Reinforced Concrete Structures (3) | 3 | 2 | - | 5 | 3 | 40 | 35 | - | 75 | 150 |
| 2 | CVE334 | Steel Structures Design (1) | 3 | 2 | - | 5 | 3 | 40 | 35 | - | 75 | 150 |
| 3 | CVE365 | Design of Irrigation Works | 3 | 2 | - | 5 | 3 | 30 | 30 | - | 65 | 125 |
| 4 | CVE366 | Sanitary Engineering | 2 | 2 | - | 4 | 3 | 30 | 30 | - | 65 | 125 |
| 5 | CVE371 | Transportation Planning and Traffic Engineering | 3 | 2 | - | 5 | 3 | 25 | 25 | - | 50 | 100 |
| 6 | HUM332 | Technical Report Writing | 2 | - | - | 2 | 2 | 15 | 10 | - | 25 | 50 |
| 7 | HUM34X | Elective | 2 | - | - | 2 | 2 | 15 | 10 | - | 25 | 50 |
| Total | | | | | | 28 | | | | | | 750 |

Second semester

| No | Course Code | Course Title Mid term | Hours | | | | Exam time (Hr) | Examination marks | | | | |
|--------------|-------------|----------------------------------------------|------------|----------|------------|-----------|----------------|-------------------|------------|----------|------------|------------|
| | | | Class work | Lab/Oral | Final exam | Total | | Mid term | Class work | Lab/Oral | Final exam | Total |
| 1 | CVE335 | Design of Reinforced Concrete Structures (4) | 3 | 2 | - | 5 | 3 | 40 | 35 | - | 75 | 150 |
| 2 | CVE336 | Steel Structures Design (2) | 3 | 2 | - | 5 | 3 | 40 | 35 | - | 75 | 150 |
| 3 | CVE372 | Highway and Airport Engineering | 3 | 3 | - | 6 | 3 | 40 | 35 | - | 75 | 150 |
| 4 | CVE392 | Field Training (2) | - | - | 2 | 2 | - | - | 25 | 25 | - | 50 |
| 5 | HUM321 | Human Rights | 2 | - | - | 2 | 2 | 15 | 10 | - | 25 | 50 |
| 6 | CVE 3XX | Elective (1) | 2 | 2 | - | 4 | 3 | 25 | 25 | - | 50 | 100 |
| 7 | CVE 3XX | Elective (1) | 2 | 2 | - | 4 | 3 | 25 | 25 | - | 50 | 100 |
| Total | | | | | | 28 | | | | | | 750 |

Fourth Level

First semester

| NO. | Course Code | Course Title | Hours | | | | Exam time (Hr) | Examination marks | | | | |
|--------------|-------------|----------------------------------|-------|-----|-----|-----------|----------------|-------------------|------------|-----------|------------|------------|
| | | | Lec | Tut | Lab | Total | | Mid term | Class work | Prac/Oral | Final exam | Total |
| 1 | CVE437 | Steel Structures Design (3) | 3 | 2 | - | 5 | 3 | 40 | 35 | - | 75 | 150 |
| 2 | CVE442 | Construction Projects Management | 2 | 2 | - | 4 | 3 | 25 | 25 | - | 50 | 100 |
| 3 | CVE453 | Foundation Engineering | 3 | 2 | - | 5 | 3 | 30 | 30 | - | 65 | 125 |
| 4 | CVE474 | Railways Engineering | 2 | 2 | - | 4 | 3 | 30 | 30 | - | 65 | 125 |
| 5 | HUM413 | Engineering Legislations | 2 | - | - | 2 | 2 | 15 | 10 | - | 25 | 50 |
| 6 | CVE 4XX | Elective (2) | 2 | 2 | - | 4 | 3 | 25 | 25 | - | 50 | 100 |
| 7 | CVE 4XX | Elective (2) | 2 | 2 | - | 4 | 3 | 25 | 25 | - | 50 | 100 |
| Total | | | | | | 28 | | | | | | 750 |

Second semester

| No | Course Code | Course Title | Hours | | | | Exam time (Hr) | Examination marks | | | | |
|--------------|-------------|-------------------------------------------------------|-------|-----|-----|-----------|----------------|-------------------|------------|-----------|------------|------------|
| | | | Lec | Tut | Lab | Total | | Mid term | Class work | Prac/Oral | Final exam | Total |
| 1 | CVE415 | Earthquake Engineering | 2 | 2 | - | 4 | 3 | 25 | 25 | - | 50 | 100 |
| 2 | CVE454 | Design of Special structures and Prestressed Concrete | 2 | 2 | - | 4 | 3 | 25 | 25 | - | 50 | 100 |
| 3 | HUM422 | Population, Reproduction Health and Family Planning | 2 | - | - | 2 | 2 | 15 | 10 | - | 25 | 50 |
| 4 | HUM423 | Environmental Impact of Projects | 2 | - | - | 2 | 2 | 15 | 10 | - | 25 | 50 |
| 5 | CVE 4XX | Elective (2) | 2 | 2 | - | 4 | 3 | 25 | 25 | - | 50 | 100 |
| 6 | CVE 4XX | Elective (2) | 2 | 2 | - | 4 | 3 | 25 | 25 | - | 50 | 100 |
| 7 | CVE493 | Project | 4 | 4 | - | 8 | - | - | 125 | 125 | - | 250 |
| Total | | | | | | 28 | | | | | | 750 |