

Study Plan

Architectural Engineering Department (2020-2021)

| Level 100 (Fall) | | | | | | | | | | | | | | |
|-------------------------|-----|------------|--------------------------------------|---------------------|--------------------------------|-----|------|------------|-------------|---------|-----------|-----------|-------|--------------------|
| Semester | No. | Course No. | Course name | Course prerequisite | Distribution of hours per week | | | | Mark | | | | | Course type |
| | | | | | Lab. | Ex. | Lec. | Credit Hr. | Theoretical | Applied | Year work | Practical | Total | |
| First Semester | 1 | CIS 112 | Structural Analysis 1 | ——— | — | 2 | 2 | 3 | 60 | 20 | 20 | — | 100 | Major Compulsory |
| | 2 | ARC 112 | Visual Training & Freehand Drawing | ——— | — | 4 | 1 | 3 | 50 | 20 | 30 | — | 100 | Major Compulsory |
| | 3 | ARC 113 | Sciagraphy & Perspective | ——— | — | 4 | 1 | 3 | 50 | 20 | 30 | — | 100 | Major Compulsory |
| | 4 | ARC 121 | History & Theory of Architecture 1 | ——— | — | — | 2 | 2 | 50 | 20 | 30 | — | 100 | Major Compulsory |
| | 5 | ARC 131 | Building Constructions 1 | ——— | — | 4 | 1 | 3 | 50 | 20 | 30 | — | 100 | Major Compulsory |
| | 6 | ELP111 | Principles of Electrical Engineering | ——— | — | 1 | 2 | 2 | 60 | 20 | 20 | — | 100 | Institute Elective |
| | 7 | HUM 181 | Communication & Presentation Skills | ——— | — | 2 | 1 | 2 | 60 | 20 | 20 | — | 100 | General Compulsory |
| Tot. | | | | | | | | 18 | | | | | | |

| Level 100 (Spring) | | | | | | | | | | | | | | |
|---------------------------|-----|------------|---|---------------------|--------------------------------|-----|------|------------|-------------|---------|-----------|-----------|-------|--------------------|
| Semester | No. | Course No. | Course name | Course prerequisite | Distribution of hours per week | | | | Mark | | | | | Course type |
| | | | | | Lab. | Ex. | Lec. | Credit Hr. | Theoretical | Applied | Year work | Practical | Total | |
| Second Semester | 1 | CIS 141 | Behavior of Materials | ——— | 2 | 1 | 2 | 3 | 50 | 20 | 15 | 15 | 100 | Major Compulsory |
| | 2 | CIW 121 | Engineering Surveying | ——— | 1 | 1 | 2 | 3 | 50 | 20 | 20 | 10 | 100 | Major Compulsory |
| | 3 | ARC 122 | History & Theory of Architecture 2 | ARC 121 | — | — | 2 | 2 | 50 | 20 | 30 | — | 100 | Major Compulsory |
| | 4 | ARC 132 | Building Constructions 2 | ARC 131 | — | 4 | 1 | 3 | 50 | 20 | 30 | — | 100 | Major Compulsory |
| | 5 | ARC 151 | Architectural Design 1 | ARC 112 | — | 6 | — | 3 | 50 | 20 | 30 | — | 100 | Major Compulsory |
| | 6 | ARC 111 | Arts and Archeticture | ——— | — | 1 | 2 | 2 | 50 | 20 | 30 | — | 100 | Institute Elective |
| | 7 | CIS 111 | Principles of Construction & Building Engineering | ——— | — | 1 | 2 | 2 | 60 | 20 | 20 | — | 100 | Institute Elective |
| Tot. | | | | | | | | 18 | | | | | | |

| Level 200 (Fall) | | | | | | | | | | | | | | |
|-------------------------|-----|------------|------------------------------------|---------------------|--------------------------------|-----|------|------------|-------------|---------|-----------|-----------|-------|----------------------|
| Semester | No. | Course No. | Course name | Course prerequisite | Distribution of hours per week | | | | Mark | | | | | Course type |
| | | | | | Lab. | Ex. | Lec. | Credit Hr. | Theoretical | Applied | Year work | Practical | Total | |
| First Semester | 1 | CIS 222 | Reinforced Concrete & Foundation | ——— | — | 2 | 2 | 3 | 60 | 20 | 20 | — | 100 | Major Compulsory |
| | 2 | ARC 223 | History & Theory of Architecture 3 | ARC 122 | — | — | 2 | 2 | 50 | 20 | 30 | — | 100 | Major Compulsory |
| | 3 | ARC 233 | Building Constructions 3 | ARC 132 | — | 4 | 1 | 3 | 50 | 20 | 30 | — | 100 | Major Compulsory |
| | 4 | ARC 252 | Architectural Design 2 | ARC 151 | — | 6 | — | 3 | 50 | 20 | 30 | — | 100 | Major Compulsory |
| | 5 | HUM 111 | Technical Report Writing | ——— | — | 2 | 1 | 2 | 60 | 20 | 20 | — | 100 | Institute Compulsory |
| | 6 | ARC 261 | Landscape & Urban Design | ——— | — | 4 | 1 | 3 | 50 | 20 | 30 | — | 100 | Major Compulsory |
| | 7 | ARC 262 | History & Theory of Planning | ——— | — | — | 2 | 2 | 50 | 20 | 30 | — | 100 | Major Compulsory |
| Tot. | | | | | | | | 18 | | | | | | |

| | | | | | Level 200 (Spring) | | | | | | | | | |
|-----------------|-----|------------|--------------------------------------|---------------------|--------------------------------|-----|------|-------------|-------------|---------|-----------|-----------|-------|----------------------|
| Semester | No. | Course No. | Course name | Course prerequisite | Distribution of hours per week | | | | Mark | | | | | Course type |
| | | | | | Lab. | Ex. | Lec. | Credit Hr. | Theoretical | Applied | Year work | Practical | Total | |
| Second Semester | 1 | ARC 224 | History & Theory of Architecture 4 | ARC 223 | – | – | 2 | 2 | 50 | 20 | 30 | – | 100 | Major Compulsory |
| | 2 | ARC 241 | Environmental Control | ———— | – | 2 | 2 | 3 | 50 | 20 | 30 | – | 100 | Major Compulsory |
| | 3 | ARC 242 | Acoustics & Illumination | ———— | – | 2 | 1 | 2 | 50 | 20 | 30 | – | 100 | Major Compulsory |
| | 4 | ARC 253 | Architectural Design 3 | ARC 252 | – | 6 | – | 3 | 50 | 20 | 30 | – | 100 | Major Compulsory |
| | 5 | MEP 342 | Air Conditioning in Buildings | ———— | – | 1 | 2 | 2 | 50 | 20 | 30 | – | 100 | Major Compulsory |
| | 6 | IEN 131 | Monitoring & Quality Control Systems | ———— | – | – | 1 | 1 | 60 | 20 | 20 | – | 100 | Institute Compulsory |
| | 7 | HUM 181 | Communication & Presentation Skills | ———— | – | 2 | 1 | 2 | 60 | 20 | 20 | – | 100 | General Compulsory |
| | 8 | ARC 458 | Sustainable Architecture | ———— | – | 4 | 1 | 3 | 50 | 20 | 30 | – | 100 | Major Compulsory |
| | | | | | | | | Tot. | 18 | | | | | |

| | | | | | Level 300 (Fall) | | | | | | | | | |
|----------------|-----|------------|--|---------------------|--------------------------------|-----|------|-------------|-------------|---------|-----------|-----------|-------|----------------------|
| Semester | No. | Course No. | Course name | Course prerequisite | Distribution of hours per week | | | | Mark | | | | | Course type |
| | | | | | Lab. | Ex. | Lec. | Credit Hr. | Theoretical | Applied | Year work | Practical | Total | |
| First Semester | 1 | 291 | FieldTraining1 | ———— | 6 | – | – | 1 | – | – | 50 | 50 | 100 | Institute Compulsory |
| | 2 | HUM 352 | Human Rights | ———— | – | – | 1 | 1 | 60 | 20 | 20 | – | 100 | General Compulsory |
| | 3 | ARC 331 | Working Drawings 1 | ARC 233 | – | 6 | – | 3 | 50 | 20 | 30 | – | 100 | Major Compulsory |
| | 4 | ARC 354 | Architectural Design 4 | ARC 253 | – | 6 | – | 3 | 50 | 20 | 30 | – | 100 | Major Compulsory |
| | 5 | CIS 231 | Design of Steel Structures 1 | CIS 112 | – | 2 | 2 | 3 | 60 | 20 | 20 | – | 100 | Major Compulsory |
| | 6 | CIW 331 | Environmental Impact of Projects | ———— | – | – | 1 | 1 | 60 | 20 | 20 | – | 100 | Institute Compulsory |
| | 7 | IEN 351 | Engineering Economics | ———— | – | 1 | 2 | 2 | 60 | 20 | 20 | – | 100 | Institute Compulsory |
| | 8 | HUM 381 | Principles of Negotiation | ———— | – | – | 2 | 2 | 60 | 20 | 20 | – | 100 | General Compulsory |
| | 9 | ARC 327 | Architectural Criticism & Project Evaluation | ———— | – | 5 | 0 | 2 | 50 | 20 | 30 | – | 100 | Minor Elective |
| | | | | | | | | Tot. | 18 | | | | | |

| | | | | | Level 300 (Spring) | | | | | | | | | |
|-----------------|-----|------------|------------------------------------|---------------------|--------------------------------|-----|------|-------------|-------------|---------|-----------|-----------|-------|----------------------|
| Semester | No. | Course No. | Course name | Course prerequisite | Distribution of hours per week | | | | Mark | | | | | Course type |
| | | | | | Lab. | Ex. | Lec. | Credit Hr. | Theoretical | Applied | Year work | Practical | Total | |
| Second Semester | 1 | ARC 332 | Working Drawings 2 | ARC 331 | – | 6 | – | 3 | 50 | 20 | 30 | – | 100 | Major Compulsory |
| | 2 | ARC 355 | Architectural Design 5 | ARC 354 | – | 6 | – | 3 | 50 | 20 | 30 | – | 100 | Major Compulsory |
| | 3 | ARC 371 | Architectural & Urban Legislations | ———— | – | – | 2 | 2 | 50 | 20 | 30 | – | 100 | Major Compulsory |
| | 4 | Arc 336 | Maintenance of Buildings | ———— | – | - | 2 | 2 | 50 | 20 | 30 | – | 100 | Minor Elective |
| | 5 | HUMX 72 | Trends in Contemporary Arts | ———— | – | – | 2 | 2 | 60 | 20 | 20 | – | 100 | General Elective |
| | 6 | CIW 232 | Sanitary Installation in Buildings | ———— | – | 1 | 2 | 2 | 60 | 20 | 20 | – | 100 | Major Compulsory |
| | 7 | IEN 314 | Project Management | ———— | – | 1 | 2 | 2 | 60 | 20 | 20 | – | 100 | Institute Compulsory |
| | 8 | HUM 351 | Professional Ethics | ———— | – | – | 1 | 1 | 60 | 20 | 20 | – | 100 | Institute Compulsory |
| | | | | | | | | Tot. | 17 | | | | | |

| | | | | | | | | | | | | | | Level 400 (Fall) | |
|-----------------------|-----|------------|--|---------------------|--------------------------------|-----|------|-------------|-------------|---------|-----------|-----------|-------|-------------------------|--|
| Semester | No. | Course No. | Course name | Course prerequisite | Distribution of hours per week | | | | Mark | | | | | Course type | |
| | | | | | Lab. | Ex. | Lec. | Credit Hr. | Theoretical | Applied | Year work | Practical | Total | | |
| First Semester | 1 | 391 | FieldTraining2 | ———— | 6 | – | – | 1 | – | – | 50 | 50 | 100 | Institute Compulsory | |
| | 2 | ARC 491 | Project 1 | ARC 335 | – | 2 | – | 1 | – | – | 50 | 50 | 100 | Major Compulsory | |
| | 3 | ARC 463 | Housing | ———— | – | 2 | 2 | 3 | 50 | 20 | 30 | – | 100 | Major Compulsory | |
| | 4 | HUMX 71 | Introduction to the History of Civilizations | ———— | – | – | 2 | 2 | 60 | 20 | 20 | – | 100 | General Elective | |
| | 5 | ARC 457 | Interior Design | ———— | – | 4 | 1 | 3 | 50 | 20 | 30 | – | 100 | Minor Elective | |
| | 7 | BAS 212 | Statistics and Probability theory | ———— | – | 2 | 2 | 3 | 60 | 20 | 20 | – | 100 | Institute Compulsory | |
| | | | | | | | | Tot. | 13 | | | | | | |

| | | | | | | | | | | | | | | Level 400 (Spring) | |
|------------------------|-----|------------|--------------------------------------|---------------------|--------------------------------|-----|------|-------------|-------------|---------|-----------|-----------|-------|---------------------------|--|
| Semester | No. | Course No. | Course name | Course prerequisite | Distribution of hours per week | | | | Mark | | | | | Course type | |
| | | | | | Lab. | Ex. | Lec. | Credit Hr. | Theoretical | Applied | Year work | Practical | Total | | |
| Second Semester | 1 | ARC 472 | Execution Documents | ———— | – | 2 | 2 | 3 | 50 | 20 | 30 | – | 100 | Major Compulsory | |
| | 2 | ARC 492 | Project 2 | ARC 491 | – | 10 | – | 5 | – | – | 50 | 50 | 100 | Major Compulsory | |
| | 3 | HUMx 73 | Recent Egypt's History | ———— | – | 2 | 2 | 2 | 60 | 20 | 20 | – | 100 | General Elective | |
| | 4 | IEN 131 | Monitoring & Quality Control Systems | ———— | – | – | 1 | 1 | 60 | 20 | 20 | – | 100 | Institute Compulsory | |
| | 5 | HUM 221 | Business Administration | ———— | – | – | 2 | 2 | 60 | 20 | 20 | – | 100 | General Elective | |
| | | | | | | | | Tot. | 13 | | | | | | |

