Ministry of Higher Education

Obour High Institute

For Engineering And Technology

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2024/2025

STUDENT GUIDE

Engineering And Construction Technology

2024 / 2025

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A Word From The Program Head

The role of Al-Obour Institute is not only in teaching curricula using the latest methods and keeping up with the latest science and technology, but also in helping our students acquire teaching, learning and development skills, the ability to think, solve problems and face work challenges, which gives them the ability to keep pace with technological development in the field of construction and building, work anywhere, compete strongly regionally and locally and maintain professional ethics.

1. About The Program:

The Construction Engineering and Technology Program was established at the Obour Higher Institute of Engineering and Technology in 2004. The building consists of two floors, each floor has an area of 700 m2, with a total area of 1400 m2.

2. Program Members Statement

Teacher Staff

No.	Name	Scientific Department
1	Asso. Prof. Tamer El-Gohary	Construction Program
2	Asso. Prof. Mohamed AbdElkader	Construction Program
3	Dr. Adel Soliman	Construction Program
4	Dr. Kamel Tamer	Construction Program
5	Dr. Essam Ghanem	Construction Program
6	Dr. Ahmed Galal	Construction Program
7	Asso. Prof. Shenoda Shenda	Basic Sciences
8	Dr. Suzan Farghaly	Basic Sciences
9	Dr. Nancy Arfa	Basic Sciences
10	Dr. Nabil Kaiser	Basic Sciences
11	Dr. Amoail Beshara	Basic Sciences
12	Dr. Mona Mamdoh	Basic Sciences

Demonstrators

No.	Name	Scientific Department
1	Nermin Naeim	Construction Program
2	Gehad Ahmed	Construction Program
3	Sara Fawzy	Construction Program
4	Walid Eldesuky	Construction Program
5	Zeinab Reda	Construction Program
6	Asem Elsayed	Construction Program
7	Tasnem Adel	Basic Sciences
8	Yasmen Mohamed	Basic Sciences

3. Program Vision

The department should be distinguished in preparing civil engineers and in meeting the renewed requirements of society and in conjunction with rapid technological developments, as well as being distinguished locally and regionally, provided that the department is distinguished by providing engineering programs and high-quality services in the field of civil engineering.

4 .Program Mission

Preparing applied engineers in the field of civil engineering who are distinguished by a high level of knowledge and technological creativity in line with the solid standards adopted globally in ensuring quality and academic accreditation of corresponding

engineering programs while adhering to the ethics of the engineering profession. Providing a distinguished and recognized educational environment so that its graduates possess high professionalism and basic engineering education that enables them to contribute effectively to serving their community and raising the level and progress of their profession. Providing a high-level research environment that enables its professors, researchers and students to conduct research in the field of civil engineering and apply it and disseminate and apply available and new knowledge to serve the community.

5. Program Aims

• Apply knowledge and understanding of the multidisciplinary fundamentals of construction, environmental engineering, civil engineering and their integration.

• Demonstrate scientific principles relevant to the elements and components of various civil and construction technology systems.

• Use analytical and scientific skills appropriate to the design of various civil and construction technology systems.

• Address professional topics related to current economic, social and ethical issues that promote lifelong learning and the ability to continuously improve.

• Improve team skills that enable them to work and communicate effectively while solving technical problems in a multidisciplinary environment.

• Develop, innovate and adopt new trends in their advanced education.

6 .Graduate Attributes

- Graduates should be able to:
- Master a wide range of engineering knowledge and specialized skills and can apply the acquired knowledge using theories and abstract thinking in real-life situations.

- Apply critical and systematic analytical thinking to identify, diagnose and solve engineering problems with a wide range of complexity and diversity, especially in the field of construction engineering.
- Act professionally and adhere to engineering ethics and standards.
- Work within a heterogeneous team of professionals from different engineering disciplines and lead it and take responsibility for personal and team performance.
- Recognize his role in advancing the engineering field and contributing to the development of the profession and society.
- Appreciate the importance of the environment, both physical and natural, and work to promote the principles of sustainability.
- Use modern engineering techniques, skills and tools necessary for the practice of engineering.

- Take full responsibility for self-learning and self-development and engage in lifelong learning and demonstrate the ability to participate in graduate studies and research studies.
- Communicate effectively using different media, tools and languages with different audiences to deal with academic/professional challenges in a critical and creative manner.
- Demonstrate leadership qualities, business management and project management skills, especially in the field of construction engineering technology.

7. Enrolment Requirements

The following is required for student registration in the institute:

1. The student must have a high school diploma or its equivalent from Arab or foreign certificates. The student may also have a diploma from technical industrial schools (3 or 5 years) or a diploma from industrial or technical institutes.

2. The student must study full-time in accordance with the internal regulations prepared by the institute.
3. The student must be of good conduct and behavior.

8. Study Regulations Based On Credit Hour System

This part of the regulations explains how courses are taught, learned and assessed in the different programmes.

9. Program' System

- The official language of instruction is English.
- The programs follow the credit hour system (CH), which is a measure of the hours of contact between teachers and students during each semester. Each credit hour is equivalent to the following number of contact hours:

  - One hour of lecture per week for a 15-week semester.
  - Two to three hours of practice or practical work per week for a 15-week semester.
- The contact hour is divided into 50 minutes of actual teaching and 10 minutes of rest.

10. Study Levels

When a student completes a certain percentage of the program requirements, he/she is transferred from one level to the next. The following table shows the student's status based on the number of completed credit hours.

Study level	Student status	Percentage of credit hours successfully completed	Number of hours required
0	Freshman	0% to < 20%	0 : 32
1	Sophomore	20% to < 40%	33 : 65
2	Junior	40% to < 60%	66 : 98
3	Senior1	60% to < 80%	99 : 131
4	Senior2	80% to < 100%	132 : 165

*The total number of credit hours required for graduation is 165 hours.

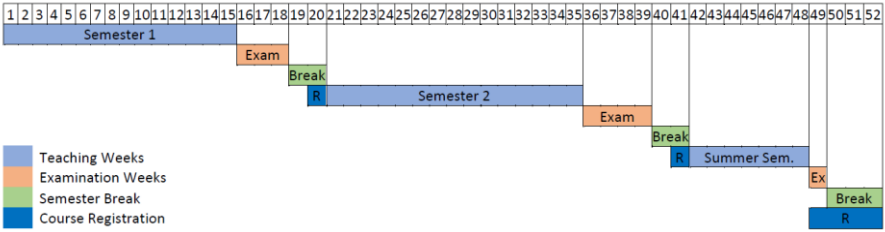
11. Academic Semesters And Course Registration

- The academic year consists of two main semesters and a summer semester (according to the following format):
  - The first main semester (fall) begins in the third week of September and lasts 15 weeks of teaching, followed by 3 weeks of exams. **Course registration is done within 3 weeks before the first day of the semester.**

  - The second main semester (spring) begins in February and lasts 15 weeks of teaching,

followed by 3 weeks of exams. **Course registration is done within one week before the first day of the semester.**

- Summer semester: begins in late June or early July for seven weeks, followed by a one-week exam. **Course registration is done within one week before the first day of the semester.**



- Registration is not final until all required fees are paid.
- Registration is not final unless approved by the academic advisor and the department offering the program.
- The names of new students are included in the program throughout the year after adhering to the program requirements and paying the registration fees, according to the student's status.
- Registration in the summer semester is optional.

12. Program Study Duration

- The minimum study period is nine semesters.
- The maximum study period is twenty semesters (10 years), excluding semesters that were frozen for reasons accepted by the Higher Institute of Engineering and Technology, after which the student is dismissed from the program.

13. Terms Of Course Registration

- ✓ The student may register for courses in the main semesters with a maximum total number of credit hours according to the following rules (after the approval of the academic advisor):
  - Up to 21 credit hours for a student with a cumulative GPA greater than or equal to 3.0.
  - Up to 18 credit hours for a student with a cumulative GPA greater than or equal to 2.0 and less than 3.0, registration for this number takes place in the student's first semester.
  - Up to 14 credit hours for a student with a cumulative GPA less than 2.0.

- ✓ The student may register for courses in the summer semester with a maximum total number of credit hours according to the following rules (after the approval of the academic advisor).
  - Up to 9 credit hours for a student with a cumulative GPA greater than or equal to 3.0.
  - Up to 8 credit hours for a student with a cumulative GPA less than 3.0.
- ✓ The student may register for an additional course beyond the limits mentioned above, if this

leads to graduation, after the approval of the academic advisor.

- ✓ Late registration is not final if there is no vacant space in the course, and the student must pay additional administrative fees equivalent to 1 credit hour if applicable, in accordance with the recommendations of the Education and Student Affairs Committee and the approval of the Board of Directors of the Obour Higher Institute of Engineering and Technology in this regard.
- ✓ Students who do not have a degree are allowed to register for courses provided that they pay the usual tuition fees for these courses and provide the student with a status statement, indicating the courses in which they have registered and their grades.

- ✓ Students with academic degrees and without degrees may register as an auditor in some courses, provided that there is a vacant space in these courses and after paying the academic service fees estimated at three-quarters of the usual course fees, and auditor students are not allowed to take the final exam for the course.

14. Degree Awarding Requirements

- To obtain a Bachelor of Science in Engineering degree, a student must successfully complete the credit hours in one of the programs according to its requirements, and obtain a cumulative GPA upon graduation of no less than 2.0.

- The graduation project is an essential part of all program requirements for graduation, and the graduation project may be completed in two consecutive semesters, depending on the program requirements. The student will not graduate if he does not meet the project requirements. The student must obtain at least 70% of the total credit hours in order to register for the graduation project. If the project is divided into two semesters, he must register for them in order.

- The student must perform a field training for a period of 6 weeks during his study period.

15. Field Training

- The student must perform a 6-week field training in an industrial or service facility that suits the student's program and must be

under the full supervision of the institute. The training may also be performed within the institute in a similar environment.

- The academic advisor follows up on the training through the program management committee.
- Identify a person with official contact with the company.
- The student must submit a technical evaluation of the training at the company to the academic advisor at the end of the training period.

- The company must submit an evaluation of the student's training to the academic advisor at the end of the training period.
- The training is divided into two weeks and at the end of the first, second and third levels (and can also be at the fourth level, during the semester).
- Training is allowed for a period of 6 weeks only once during the study period.
- The field training is evaluated with a pass/fail grade and is not included in the cumulative GPA.
- The student must pay the field training supervision fees equivalent to two hours of the approved hours, if applicable, in each academic year during which the field training is performed.

16. Adding and Dropping a course

- The student may add courses in the first week of the main semester or in the first three days of the summer semester.
- The student may drop courses with a refund if possible, until the end of the second week of the main semester or the end of the first week of the summer semester.

- Adding or dropping a course must not conflict with the minimum and maximum number of credit hours registered for each semester.

17. Withdrawal from a course

- A student may withdraw from any course during the first ten weeks of the main semester, or during the first five weeks of the summer semester.
- The student will not fail the course from which he withdrew, provided that he submitted a withdrawal request and it was approved and completed within the specified time mentioned in the previous point.

- The student will receive a grade of (W) upon withdrawal from the course, and will be allowed to register for that course (with full attendance of all activities including exams) in the following semester.

18. Incomplete course

- If the student does not attend the final exam of the course in the semester with an excuse acceptable to the Student Affairs Committee and approved by the Board of Directors of the Obour Higher Institute of Engineering and Technology, the course is considered incomplete.
- The student will receive a grade of (I) in the course until he/she takes the exam for that course. If the student fails to attend the final exam at the next available time, he/she will receive a grade of (F) in that course. The grade of (I) is not taken into account in the student's cumulative grade point average (GPA).
- At the next available time for the exam, the student takes the exam after paying the re-exam fees at a cost equivalent to one credit hour, if possible. The final exam grades are added to the semester work grades, to calculate the overall grade for that course.

19. Student Evaluation

- The grades of each course are distributed as percentages of the total grade, divided between the course activities, the mid-term exam, the practical exam, and the final exam.
- The student must attend at least 75% of the total contact hours of the course, in order to be able to attend his/her final exam.

- For the student to pass a course, the minimum grade that must be obtained in the final exam is 40% of the total final exam grade, otherwise the student will fail the course, regardless of the total grades obtained in this course, and will receive a grade of (F). This article does not apply to courses that do not have a final exam.
- The student will fail the course if he/she receives a grade of (F) (less than 60% of the course grades), or is not allowed to attend the final exam due to exceeding the prescribed percentage of absences, or due to cheating, ... etc. or does not attend the final exam without submitting a prior excuse acceptable to the Education and Student Affairs Committee and

approved by the Board of Directors of the Obour Higher Institute of Engineering and Technology. In the event that the student submits a prior excuse acceptable to the Education and Student Affairs Committee and approved by the Board of Directors of the Obour Higher Institute of Engineering and Technology, the course grade will be considered incomplete (I). In this case, the course will be registered for him in the following semester, while retaining the year's work, and he will have the right to calculate the course grade for him without reduction.

20. Course Grades

- The average GPA for each course is calculated based on the grades the student collects while studying that course (student work – mid-term exam – practical exam – final exam). The following table shows how the average GPA is calculated based on the grades collected. The student must obtain a grade of (D) as a minimum in order to pass the course, and for this course to be taken into consideration when calculating the average cumulative GPA.

- The grades are distributed among the different evaluation criteria within the course description for these regulations.

Total Grades %	Grade	Points
≥ 97%	A+	4.0
93% : < 97%	A	
89% : < 93%	A-	3.7
84% : < 89%	B+	3.3
80% : < 84%	B	3.0
76% : < 80%	B-	2.7
73% : < 76%	C+	2.3
70% : <73%	C	2.0
67% : < 70%	C-	1.7
64% : < 67%	D+	1.3
60% : < 64%	D	1.0
< 60%	F	0.0

Other courses where the student is registered as an auditor, or have zero credit hours (pass or fail), are not included in the cumulative GPA calculation. The grade for such courses is as shown in the following table:

Degree	Interpretation
AU	Listener
P	Passed
F	Failed
W	Withdrawn
I	Incomplete

21. Course Repeating

- The student can repeat the course for improvement, if his grade in this course meets the minimum passing requirements, according to the following rules:
  - The student obtains the highest grade in the course after repeating, and this grade is the one that will be calculated in the cumulative GPA, provided that this improvement must appear in the student's status statement.

  - The maximum number of times a student can repeat a course for improvement is five times during the study period, except for improving subjects for the purpose of exiting the academic warning period, or to meet graduation requirements.
  - The student must pay the full cost of the credit hours to improve a course.
- If the student fails a course (receiving an F grade), he must repeat the course (with full attendance and performance of activities including exams - the course grade is calculated from the beginning) according to the following rules:
  - The highest grade for a course that has been repeated is B.+

- After repeating the course, his grade is the one that will be calculated in the cumulative GPA, provided that this repetition must appear in the student's status statement.

22. Study Dismissal and Academic Probation

- A student receives an academic warning if the cumulative semester GPA in any semester is less than 2.0.
- A student will be dismissed from the Obour Higher Institute of Engineering and Technology if he/she receives a cumulative semester GPA less than 2.0 in six consecutive semesters other than summer semesters. If the student's cumulative semester GPA exceeds 2.0 in any semester, consecutive academic warnings will be cancelled.

- A student will be dismissed from the Obour Higher Institute of Engineering and Technology if he/she fails to meet the graduation requirements during the maximum period of study, which is ten years.
- A student who is dismissed from study due to his/her inability to raise the cumulative GPA to at least 2.0 will be given an additional and final opportunity to register for two consecutive semesters and a summer semester to raise the cumulative GPA to at least 2.0, and to meet the graduation requirements provided that he/she has successfully completed at least 80% of the total number of credit

hours required for graduation. There is an opportunity for the student to raise the cumulative GPA to at least 2.0.

23. Calculation of the Cumulative Grade Point Average (GPA)

- The course points achieved by the student are calculated as the product of the number of credit hours for this course, and the course grade points mentioned in Article 16 above.
- In any semester, the total points obtained by the student are calculated by dividing the total points of all the courses of the semester by the total credit hours for these courses.
- The cumulative GPA for graduation is the cumulative GPA upon graduation, after fulfilling all graduation requirements. A student cannot obtain his/her academic degree unless he/she achieves a cumulative GPA of at least 2.0 upon graduation.

- The graduate's ranking is based on the cumulative GPA upon graduation, and in the event of a tie in the cumulative GPA upon graduation between two or more students, the ranking is based on their total cumulative grades, taking into account the rules related to repeating and improving courses.

- The student's status statement must include all the courses registered during the study period, including those he/she failed, withdrew from, or improved.

24. Declaration of Honor

- In order to achieve honors, the student must meet the following conditions:
  - Maintain a cumulative GPA of 3.3 during his studies in the program, and in any semester the semester GPA must be higher than or equal to 3.3.
  - The student must not fail any course during his studies in the program.

  - Not have been subject to any penalty (punishment) during his studies in the program.

25. Course Opening

- The opening of the course is subject to the availability of a teaching staff and the availability of appropriate capabilities.
- The Higher Institute of Engineering and Technology may grant exceptions to these limits if necessary.

26. Academic Advisor

- Each student is assigned an academic advisor to follow up on the student's academic progress and help him choose courses in each semester.
- There may be more than one academic advisor in the program depending on the number of students enrolled in the program.
- The academic advisor is responsible for:
    - Helping the student choose the academic path and helping him choose courses in each semester.
    - Helping the student choose field training.
    - Helping the student choose the track and graduation project.

- The academic advisor may ask the student to repeat courses he has passed or ask him to register additional courses to raise the cumulative GPA required for graduation.

27. Student Transfer between Credit Hour System and Semester-Based System

- Course offsetting will be performed between the courses passed by the student in the semester-based system and the equivalent courses in the programs presented here.
- The following table is used to calculate the equivalent grades when transferring from the semester-based system and the credit hour system.

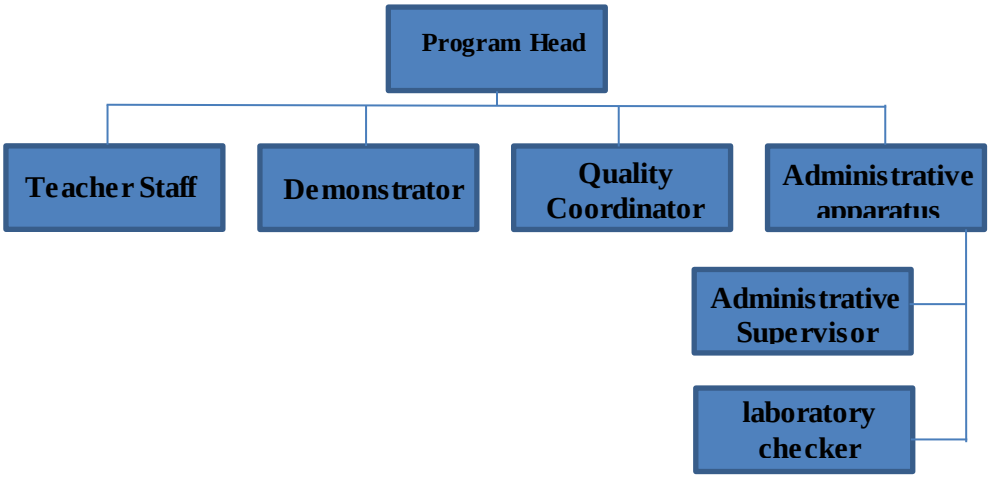
From the semester-based system to the **credit hour** system

Equivalent Percentage	Points	Appreciation
≥ 95%	4.0	A+
90% : < 95%		A
85% : < 90%	3.7	A-
80% : < 85%	3.3	B+
75% : < 80%	3.0	B
71% : < 75%	2.7	B-
68% : < 71%	2.3	C+
65% : < 68%	2.0	C
60% : < 65%	1.7	C-
55% : < 60%	1.3	D+
50% : < 55%	1.0	D
< 50%	0.0	F

28. Appeals

- The student may submit a petition to review the grades of a course, within a week of the announcement of the grades, after paying the required fees in accordance with the Institute's rules.
- In the event of a general complaint about the result of a course, the competent committee reviews the grades and issues a decision regarding the grades of this course.

29. Program Organizational Structure



30. The plan and scientific content of the academic courses

Code	Course Title	Credits and SWL			Contact Hours				Pre-requisites
		CH	ECTS	SWL	Lec	Tut	Lab	TT	
Semester 1									
HUM 011	English Language	2	4	100	2	1	-	3	
BAS 011	Mathematics (1)	3	5	125	3	1	-	4	
BAS 021	Physics (1)	3	5	125	2	1	1	4	
BAS 051	Engineering Drawing & Projection, using the Computer	3	6	150	2	1	2	5	
BAS 061	Principles of Manufacturing Engineering	3	5	125	2	2	1	5	
ELE 031	Computer Technology	3	5	125	2	1	1	4	
Total		**17**	**30**	**750**	**13**	**7**	**5**	**25**	
Semester 2									
HUM 061	History of Engineering & Technology	2	4	100	2	-	-	2	
BAS 012	Mathematics (2)	4	6	150	3	2	-	5	BAS 011
BAS 022	Physics (2)	3	5	125	2	2	1	5	BAS 021
BAS 031	Mechanics	3	5	125	2	2	-	4	
BAS 041	Engineering Chemistry	3	5	125	2	2	1	5	
ELE 041	Computer Programming (1)	3	5	125	2	0	2	4	ELE 031
Total		**18**	**30**	**750**	**13**	**8**	**4**	**25**	
Semester 3									
HUM 181	Communications and Presentation Skills	2	4	100	2	1	-	3	
	BASIC Elective (1) Course	2	4	100	2	1	-	3	
BAS 111	Mathematics (3)	4	6	150	3	2	-	5	BAS 012
CIV 161	Civil Drawing	2	5	100	-	4	-	4	

CIV 162	Engineering Surveying (1)	3	5	150	2	1	1	4	BAS 012
CIV 121	Strength of materials & Testing (1)	3	6	150	2	1	1	4	BAS 022
Total		**16**	**30**	**750**	**11**	**10**	**2**	**23**	
Semester 4									
HUM 172	Analysis and Research Skills	2	4	100	2	1	-	3	
	BASIC Elective Course (2)	2	4	100	2	1	-	3	
CIV 122	Strength of materials & Testing (2)	3	6	125	2	1	1	4	CIV 121
CIV 163	Engineering Surveying (2)	3	5	125	2	1	1	4	CIV 162
ARC 121	Building Construction (1)	3	6	150	2	2	-	4	
CIV 111	Structural Analysis (1)	3	5	150	3	1	-	4	
Total		**16**	**30**	**750**	**13**	**7**	**2**	**22**	
Semester 5									
HUM 241	Law and Human Rights	2	4	100	2	1	0	3	
	BASIC Elective Course (3)	2	4	100	2	1	-	3	
CIV 281	Fluid Mechanics	3	6	150	2	1	1	4	
CIV 211	Design of Concrete Structures (1)	3	5	125	3	1	-	4	CIV 111
CIV 213	Structural Analysis (2)	3	5	125	3	1	-	4	CIV 111
CIV 271	Environmental Engineering	3	6	150	3	1	-	4	
Total		**16**	**30**	**750**	**15**	**6**	**1**	**22**	
Semester 6									
	HUM Elective Course (1)	2	4	100	2	1	-	3	
CIV 212	Design of Concrete Structures (2)	3	5	125	3	1	-	4	CIV 211
CIV 214	Structural Analysis (3)	3	5	125	3	1	-	4	CIV 213
CIV 282	Hydraulics	3	6	150	2	1	1	4	CIV 281
CIV 242	Legislation & Contracts	2	4	100	2	1	-	3	

CIV 232	Geotechnical Engineering	3	6	150	2	1	1	4	
Total		**16**	**30**	**750**	**14**	**6**	**2**	**22**	
Semester 7									
	HUM Elective Course (2)	2	4	100	2	1	-	3	
CIV 313	Design of Concrete Structures (3)	3	5	125	3	1	-	4	CIV 212
CIV 311	Design of Steel Structures (1)	3	6	150	3	1	-	4	CIV 213
CIV 381	Irrigation and Drainage Engineering	2	4	100	2	1	-	3	CIV 282
CIV 331	Foundations Engineering (1)	3	6	150	3	1	-	4	CIV 232
CIV 371	Sanitary Engineering	3	5	125	3	1	-	4	CIV 282
Total		**16**	**30**	**750**	**16**	**6**	**-**	**22**	
Semester 8									
CIV 312	Design of Steel Structures (2)	3	6	150	3	1	-	4	CIV 311
CIV 332	Foundations Engineering (2)	3	6	150	3	1	-	4	CIV 331
CIV 351	Highway & Traffic Engineering	2	4	100	2	1	-	3	
CIV 341	Project Management	2	4	100	2	1	-	3	
	CIV Level 3 Elective Course (1)	3	5	125	3	1	-	4	
	CIV Level 3 Elective Course (2)	3	5	125	3	1	-	4	
Total		**16**	**30**	**750**	**16**	**6**	**-**	**22**	
Semester 9									
CIV 411	Design of Steel Bridges	3	6	150	3	1	-	4	CIV 312
CIV 422	Repair & Strengthening of Structures	2	4	100	2	1	-	3	
CIV 441	Construction Engineering	2	4	100	2	1	-	3	
CIV 491	Construction Graduation Project (1)	4	6	150	3	2	-	5	
	CIV Level 4 Elective Course (3)	3	5	125	3	1	-	4	
	CIV Level 4 Elective Course (4)	3	5	125	3	1	-	4	

Total		**17**	**30**	**750**	**16**	**7**	**-**	**23**	
Semester 10									
CIV 442	Construction Planning & Control	2	4	100	2	1	-	3	CIV 341
CIV 412	High Rise Buildings & R.C Towers	3	5	125	3	1	-	4	
CIV 413	Electrical & Mechanical Structures in Buildings	2	5	125	2	1	-	3	
CIV 492	Construction Graduation Project (2)	4	6	150	3	2	-	5	
	CIV Level 4 Elective Course (5)	3	5	125	3	1	-	4	
	CIV Level 4 Elective Course (6)	3	5	125	3	1	-	4	
Total		**17**	**30**	**750**	**16**	**7**	**-**	**23**	

31. Registration Form Proposal

Zero level (35 hours required to pass)

Second semester (Spring season)				**First Semester (Autumn season)**			
Course Req.	No. Hours	Course Name	Course Code	Course Req.	No. Hours	Course Name	Course Code
-	2	History of Engineering & Technology	HUM 061	-	2	English Language	HUM 011
BAS 011	4	Mathematics (2)	BAS 012	-	3	Mathematics (1)	BAS 011
BAS 021	3	Physics (2)	BAS 022	-	3	Physics (1)	BAS 021
-	3	Mechanics	BAS 031	-	3	Engineering Drawing & Projection, using the Computer	BAS 051
-	3	Engineering Chemistry	BAS 041	-	3	Principles of Manufacturing Engineering	BAS 061
ELE 031	3	Computer Programming (1)	ELE 041	-	3	Computer Technology	ELE 031

First level (67 hours required to pass)							
-	2	Analysis and Research Skills	HUM 172	-	2	Communications and Presentation Skills	HUM 181
-	2	BASIC Elective Course (2)		-	2	BASIC Elective (1) Course	
CIV 121	3	Strength of materials & Testing (2)	CIV 122	BAS 012	4	Mathematics (3)	BAS 111
CIV 162	3	Engineering Surveying (2)	CIV 163	-	2	Civil Drawing	CIV 161
-	3	Building Construction (1)	ARC 121	BAS 012	3	Engineering Surveying (1)	CIV 162
-	3	Structural Analysis (1)	CIV 111	BAS 022	3	Strength of materials & Testing (1)	CIV 121
Second level (99 hours required to pass)							
-	2	HUM Elective Course (1)		-	2	Law and Human Rights	HUM 241
CIV 211	3	Design of Concrete Structures (2)	CIV 212	-	2	BASIC Elective Course (3)	
CIV 213	3	Structural Analysis (3)	CIV 214	-	3	Fluid Mechanics	CIV 281
CIV 281	3	Hydraulics	CIV 282	CIV 111	3	Design of Concrete Structures (1)	CIV 211
-	2	Legislation & Contracts	CIV 242	CIV 111	3	Structural Analysis (2)	CIV 213
-	3	Geotechnical Engineering	CIV 232	-	3	Environmental Engineering	CIV 271
Third level (131 hours required to pass)							
CIV 311	3	Design of Steel Structures (2)	CIV 312	-	2	HUM Elective Course (2)	
CIV 331	3	Foundations Engineering (2)	CIV 332	CIV 212	3	Design of Concrete Structures (3)	CIV 313
-	2	Highway & Traffic Engineering	CIV 351	CIV 213	3	Design of Steel Structures (1)	CIV 311

-	2	Project Management	CIV 341	CIV 282	2	Irrigation and Drainage Engineering	CIV 381
-	3	CIV Level 3 Elective Course (1)		CIV 232	3	Foundations Engineering (1)	CIV 331
-	3	CIV Level 3 Elective Course (2)		CIV 282	3	Sanitary Engineering	CIV 371

Forth level (165 hours required to pass)

CIV 341	2	Construction Planning & Control	**CIV 442**	**CIV 312**	3	Design of Steel Bridges	CIV 411
-	3	High Rise Buildings & R.C Towers	**CIV 412**	-	2	Repair & Strengthening of Structures	CIV 422
-	2	Electrical & Mechanical Structures in Buildings	**CIV 413**	-	2	Construction Engineering	CIV 441
-	4	Construction Graduation Project (2)	**CIV 492**	-	4	Construction Graduation Project (1)	CIV 491
-	3	CIV Level 4 Elective Course (5)		-	3	CIV Level 4 Elective Course (3)	
-		CIV Level 4 Elective Course (6)		-	3	CIV Level 4 Elective Course (4)	

32. Program capabilities

2. Laboratories

3. Library

33. Disciplinary rules

Students enrolled in the institute and authorized to take the exam from outside are subject to the disciplinary system set forth below. The following acts are considered disciplinary violations in particular:

- Acts that disrupt the institute's system or disrupt or incite study, as well as deliberate refusal to attend classes, lectures, etc. that the regulations require to be performed regularly.
- Any act that violates honor and dignity or violates good conduct and behavior inside or outside the institute.
- Any violation of the examination system or the required calm and any cheating in an exam or attempting to cheat.
- Any destruction or squandering of university facilities, equipment, materials, or books.

- Any organization within the institute and participation in it without prior authorization from the institute's board of directors.
- Distributing leaflets or issuing wall newspapers for the institute or collecting signatures without prior authorization from the dean of the institute.
- Sit-ins inside the institute's buildings or participation in demonstrations that violate public order, morals, and decency.

34. Instructions for students during the exam period

- Not to be present inside the examination halls without the university card for the seat number and the location of the examination committee.
- Not to bring programmed calculators with memory inside the examination unless permitted.
- Not to bring books or any written belongings related to the subject inside the examination halls.
- Not to be more than fifteen minutes late for the examination start time.
- Not to bring a mobile phone.
- The student's data shall be recorded in the designated place only on the sticker in the answer booklet.
- Not to talk to any colleague inside the committees.
- It is not allowed to leave the committees before at least half the time has passed.

- If the student is caught cheating inside the committee, he/she shall be removed from the committee and shall be prohibited from attending the rest of the following subjects. He/she shall be considered to have failed in all subjects and shall be referred to a disciplinary board. In other cases, the examination shall be invalidated by a decision of the disciplinary board, and this shall result in the invalidation of the academic degree previously obtained by the student.

35. Disciplinary sanctions

- Disciplinary penalties imposed on students are:
- Verbal or written warning.
- Warning.
- Deprivation from attending classes in a course for a period not exceeding one month.
- Expulsion from the institute for a period not exceeding one month.
- Cancellation of the student's exam in one or more courses.

- Expulsion from the institute for an academic year or more.
- Deprivation from taking the exam in all subjects for an academic year or more.
- Final expulsion from the institute, which results in the cancellation of the student's registration in the institute and deprivation from taking the exam. This decision shall be communicated to other institutes.
- The institute administration may announce the decision issued with the disciplinary penalty within the institute, and the decision must be communicated to the student's guardian. The decisions issued

with disciplinary penalties, except for the verbal warning, shall be kept in the student's file. The Minister of Education may reconsider the decision issued with the final expulsion after at least three years have passed from the date of issuance of the decision.

36. Complaint box

There is a complaints box for students to ensure confidentiality, and the committee formed for this purpose opens the box, investigates the complaints, and works to resolve them.

37. Medical care

- There is a medical clinic equipped on the ground floor to receive cases that require rapid treatment.
- There is a doctor to deal with emergency cases.
- Sick apologies are submitted for review with the clinic doctor.

38. Activities

The Construction Engineering and Technology program conducts field visits for students to gain professional experience.

• Photographs of part of the visit of the students of the Civil Engineering Department at the Higher Institute of Engineering and Technology to the b uildings of the facilities of the tertiary treatment and desalination stations in Madinaty 2020

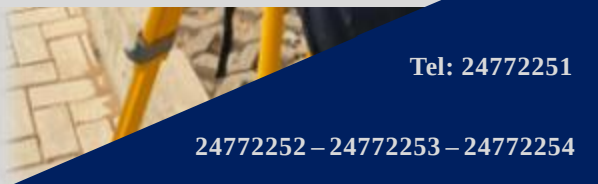
Photographs of part of the visit of the Civil Engineering Department students at the Obour Higher Institute of Engineering and Technology to the site of the implementation of residential buildings in Badr City 2023.

Visit of the Higher Institute of Engineering and Technology to Fouad Habib Elderly Care Home.

Student Guide

2024-2025

Construction Engineering



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