



HANDBOOK FOR BACHELOR OF SCIENCE IN CIVIL ENGINEERING

MAY 2023

Department of Civil Engineering

INTRODUCTION

About Program

Vision

Mission

Values

Goals

- **About The Program**

The Bachelor of Science in Civil Engineering program is one of the approved programs by Taif University that was established by the decision dated 23/3/1429 H (30/3/2008) under the directives of H. E. Acting Minister of Higher Education, letter no. 579 [14/4/1429 H (20/4/2008)]. The program is located in the main campus in Al Hawiyah, Taif. The program currently has 26 members of academic staff in the department. The department has 345 undergraduate students and offers undergraduate courses in Civil Engineering.

- **Vision**

The vision of the Civil Engineering Department is to offer excellent programs and to pioneer in such applied engineering sciences as benefit society.

- **Mission**

The mission of the Civil Engineering department is to advance the profession through teaching, research and serving as a highly capable resource for society.

- **Values**

Transparency, teamwork, excellence, belonging, being role models.

- **Program Goals**

1. Perform and practice planning and engineering design in one or more of the Structural, Water, Environmental, Surveying, Highways, Railways, Transportation and Traffic Engineering fields.
2. Advance in professional practice, ethical awareness and societal implications.
3. Enhance students' skills through enrolling in graduate studies, attending workshops or becoming members of one of the professional societies.

TU Mission

College of Engineering
Mission

- **Taif University Mission**

To develop nationally competitive competencies that contribute to the production of knowledge and its transformation into an engine for development. “

This mission statement is available online at:

<https://www.tu.edu.sa/En/University/Pages/10012/Mission>

The mission statement of the Taif University can be summarized as:

*U1. To develop nationally competitive competencies (**Education**)*

*U2. that contribute to the production of knowledge (**Research**)*

*U3. and its transformation into an engine for development (**Community Services**)*

- **College of Engineering Mission**

The College of Engineering at Taif University is dedicated to excellence in education, research, and professional service. Its mission is to graduate distinct engineers in the various disciplines of engineering, equipped with knowledge skills in accordance with academic standards and ethical requirements of society. Such a mission extends to upgrade the graduates' capabilities through training courses, workshops and providing distinct post-graduate programs. In addition, The College of Engineering conducts applied research that would contribute to solving environmental and engineering problems of society."

This mission statement is available online at the following link:

[*College of Engineering Mission*](#)

The college mission can be summarized into simpler statements as follows:

C1. distinct engineers in the various disciplines of engineering equipped with knowledge and skills.

C2. assure academic standards and ethical requirements of society.

C3. upgrade the graduate capabilities through training courses, workshops and provide distinct post-graduate programs.

INTRODUCTION...

Mapping the Mission of Program and University

Mapping the Mission of Program and College

C4. conduct applied research that would contribute to solve environmental and engineering problems of society.

The mission statement of the Civil Engineering Program was mentioned above and is available online at:

<https://www.tu.edu.sa/En/Civil-Engineering-Program/241/Pages/21756/Mission--Vision>

The mission statement of the Civil Engineering Program can be summarized as:

*P1. Advance the profession of civil engineers through **teaching** to be technically knowledgeable, well-founded, fully aware of fundamentals of basic science, engineering science and ethical and societal responsibilities.*

*P2. Advance the profession of civil engineers through **research** by enrolling in graduate studies, life-long training and interacting with the professional societies*

*P3. Advance the profession of civil engineers through **servicing** as a highly capable resource for society.*

- **Mapping the Mission of Program and University**

The following table is showing such mapping

Program Mission	University Mission		
	U1	U2	U3
P1	✓	-----	-----
P2	-----	✓	-----
P3	-----	-----	✓

- **Mapping the Mission of Program and College**

The following table is showing such mapping

Program Mission	College Mission			
	C1	C2	C3	C4
P1	✓	-----	-----	-----
P2	-----	-----	✓	-----
P3	-----	✓	-----	✓

University Goals

College Goals

Mapping the goals of Program and University

• **University Goals**

The strategic goals of the university are:

UStr.G#1: Improving the quality of education and learning outcomes

UStr.G#2: Effective participation in scientific research in community development.

UStr.G#3: Effective participation in the provision and development of community services

UStr.G#4: Raising the efficiency of the administrative system.

UStr.G#5: Raise the efficiency of human resources and infrastructure

UStr.G#6: Raising financial efficiency and self-development

• **College Goals**

The strategic goals of the College can be summarized as follows: The following statements summarize the strategic goals University, College and Department missions.

CStr.G#1: Professional and high-quality education

CStr.G#2: Research Studies.

CStr.G#3: Human capital and engineering professional

The civil engineering program goals were discussed earlier and can be summarized as follows:

Our graduates will ...

- **PG#1:** *Perform and practice planning and engineering design that are based on sound principles and that consider functionality, safety, economic viability, and sustainability.*
- **PG#2:** *Advance in professional practice, ethical awareness and societal implications.*
- **PG#3:** *Enhance skills through enrolling in graduate studies, attending workshops or becoming a member in one of the professional societies.*

• **Mapping the Goals of Program and University**

	UStr. G#1	UStr. G#2	UStr. G#3	UStr. G#4	UStr. G#5	UStr. G#6
PG #1	✓	-----	✓	-----	✓	-----
PG #2	✓	-----	✓	✓	✓	-----
PG #3	----- -	✓	✓	-----	✓	✓

INTRODUCTION...

Mapping the Goals of Program and College

Mapping between program Mission and Goals

Program Graduates Attributes

• Mapping the Goals of Program and College

		College Goals		
		CStr.G#1	CStr.G#1	CStr.G#1
Program Goals	PG#1	✓	✓	✓
	PG#2	-----	-----	✓
	PG#3	-----	✓	✓

• Mapping the Program Mission and Goals

The table matrix shows the mapping between the program mission and its goals. The mission was earlier summarized into 3 main statements (**P1&P2&P3**) and the program goals earlier noted as **PG#1&PG#2&PG#3**.

		Program Mission		
		P1	P2	P3
Program Goals	PG#1	✓	-----	-----
	PG#2	-----	✓	-----
	PG#3	-----	-----	✓

• Program Graduate Attributes

Our graduates would have the following characteristics:

- ✓ *Creativity and Innovation.*
- ✓ *Critical Thinking and Problem Solving.*
- ✓ *C. Communication Skills.*
- ✓ *Efficiency and Technical Skills.*
- ✓ *Self-direction Skills for Life-long Learning.*
- ✓ *Professionalism and Ethics.*
- ✓ *Leadership and Responsibility Skills*

INTRODUCTION...

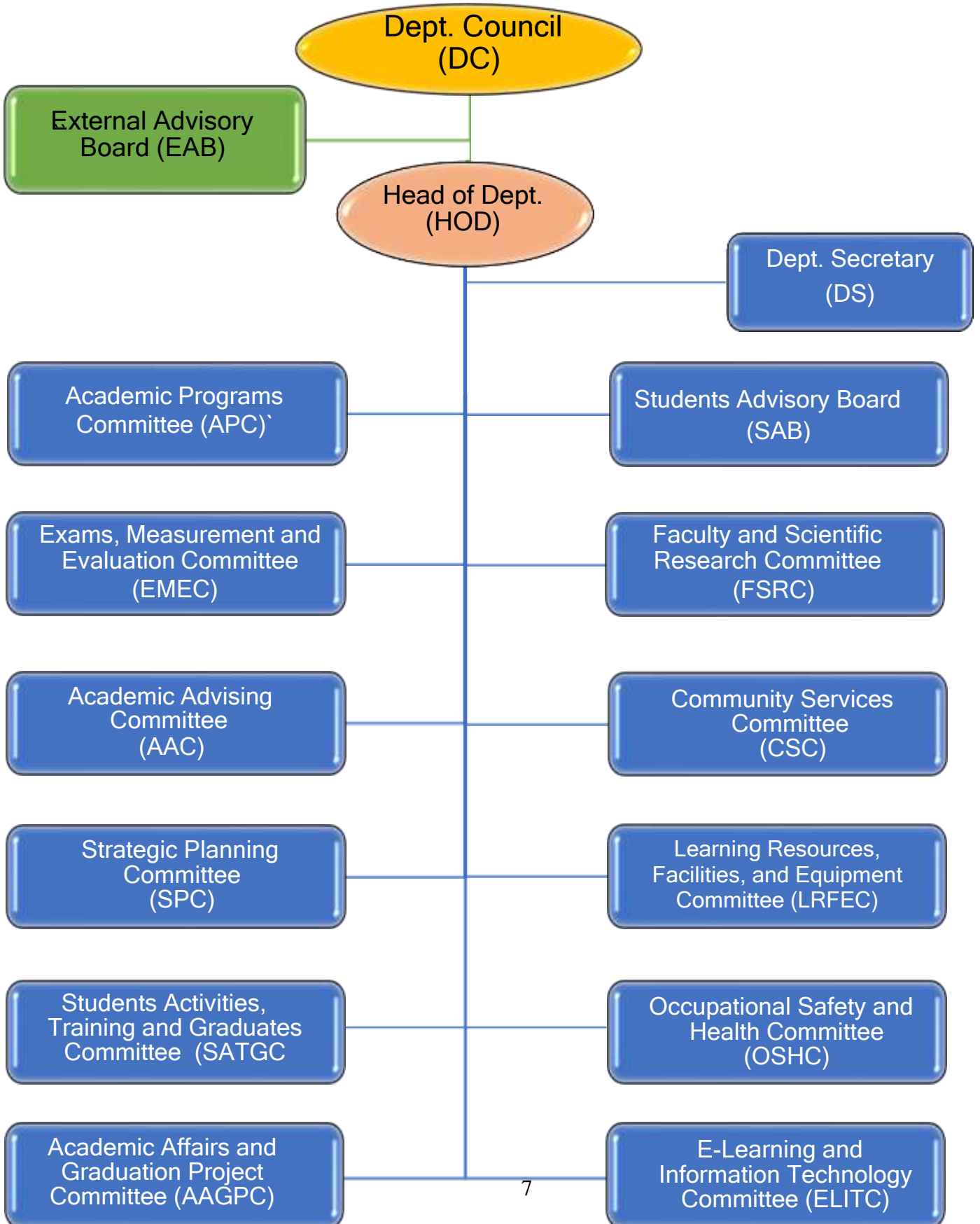
Mapping University Graduate Attributes with Program Graduates Attributes

- **Mapping University Graduate**
- **Attributes with Program Graduate Attributes**

The following Table shows the relationship between the University and the Program graduates attributes

Mapping University Graduate Attributes with Program Graduate Attributes		
Taif University Graduate Attributes		Program Graduate Attributes
1. Learning and innovation Skills.	1.1 Creativity and innovation.	Creativity and Innovation.
	1.2 Critical Thinking and Problem Solving.	Critical Thinking and Problem Solving.
	1.3 Collaboration and Communication Skills.	Communication Skills.
2. Information Technology, Media and Technical Skills.	2.1 Information Technology Proficiency Skills.	-----
	2.2 Efficiency and Media Coverage Skills.	Efficiency and Technical Skills
	2.3 Information and Communication Skills.	Communication Skills.
3. Life and Professional Skills.	3.1 Flexibility and Adaptation Skills.	-----
	3.2 Initiative and Self-direction Skills.	Self-direction Skills for Life-long Learning.
	3.3 Social Skills and Multicultural Skills.	Professionalism and Ethics.
	3.4 Skills of Productivity and Accountability.	-----
	3.5 Leadership and Responsibility Skills.	Leadership and Responsibility Skills.

ORGANIZATION CHART



FACULTY MEMBERS

Faculty Name	Highest Degree Earned-Field and Year	Rank	Type of Academic Appointment TT,T,NTT	FT or PT	Govt.\Ind. Practice
Abdullah Alsululi	Ph.D., 2017, Civil Eng.	ASC	TT	FT	5
Abdullah Alshahri	Ph.D., 2021, Civil Eng.	AST	TT	FT	10
Abdulrazak H. Almaliki	Ph.D., 2015, Civil Eng.	ASC	TT	FT	19
Adil A. Elhassan	Ph.D., 2014, Civil Eng.	AST	NTT	FT	12
Ahmed Abdelhafiz	Ph.D., 2009, Civil Eng.	AST	NTT	FT	12
Ahmed Arafat	Ph.D., 2011, Mining Eng.	AST	NTT	FT	25
Ahmed Elamary	Ph.D., 2005, Civil Eng.	ASC	NTT	FT	13
Ali ALshekh	Ph,D 2016, Civil Eng.	AST	NTT	FT	18
Ashraf Bestawy	Ph.D., 1997, Civil Eng.	AST	NTT	FT	6
Ehab Gomaa	Ph.D., 2014, Mining Eng.	AST	NTT	FT	
Hamad Al Meagaba	Ph.D., 2021, Civil Eng.	AST	TT	FT	7
Hassan ALasmari	Ph.D., 2020, Civil Eng.	AST	TT	FT	15
Ibrahim A. Sharaky	Ph.D., 2014, Civil Eng.	AST	NTT	FT	12
Ibrahim M. Salama	Ph.D., 2004, Civil Eng.	AST	NTT	FT	8
Khaled Alnagdi	Ph.D., 2002, Mining Eng.	ASC	NTT	FT	20
Maaz Bashir	Ph.D., 2015, Civil Eng	AST	NTT	FT	22
Mohammed Mnzool	Ph.D., 2015, Mining Eng	AST	NTT	FT	20
Moustafa A. Kamel	Ph.D., 2005, Civil Eng.	AST	NTT	FT	12
Muwaffaq ALqurashi	Ph.D., 2016, Civil Eng.	ASC	TT	FT	15
Nidal M.AL Bustami	Ph.D., 1996, Civil Eng.	AST	NTT	FT	16
Osama A. Mohamed	Ph.D., 2006, Civil Eng.	AST	NTT	FT	5
Saleh Alghamdi	Ph.D., 2019, Civil Eng.	AST	TT	FT	10
Tarek Kamel ElTahawy	Ph.D., 2004, Civil Eng.	AST	NTT	FT	15
Usama H. Issa	Ph.D., 2008, Civil Eng.	AST	NTT	FT	12
Wael Elham Mohamed	Ph.D., 2013, Civil Eng	AST	NTT	FT	20
Yasir Alharthi	Ph.D., 2019, Civil Eng.	AST	TT	FT	14

Code: P = Professor, ASC = Associate Professor, AST = Assistant Professor, I = Instructor, A = Adjunct, O = Other, TT= Tenured track, T = Tenured, NTT = non-tenured track, FT/PT = Full /Part time

- **Student admission requirements**

- **Introduction**

In general, students applying to the college of Engineering are centrally admitted by the deanship of admission and registration to the First year. The university council decides the number of admitted students for each upcoming year according to the recommendation of the faculties' councils.

- **General Requirements**

The general admission requirements for the College of Engineering are illustrated below. An applicant for admission to the University should satisfy the following conditions:

- Students should have earned the secondary school certificate, or its equivalent from inside or outside the Kingdom of Saudi Arabia.
- Student should have obtained the secondary school certificate (not earlier than five years), University council has the right to waive off this condition if convinced reasons are available.
- Student should not have been dismissed academically or disciplinary from Taif University or from any other university.
- Student should have a record of good conduct.
- Student should successfully pass any test or interview required by the university council.
- Student should be physically fit and healthy.
- Student should satisfy any other conditions the University may deem necessary at the time of application.

Student Admission Requirements

Students' admission requirements of the program can be summarized in the following points:

- The program adheres to specific and unified conditions and criteria in accepting new students.
- Students have to submit for a limited time an application for admission electronically through the university's website

<https://webapps.tu.edu.sa/admission>).

- The Program uses the electronic system available through the university electronic gate for managing the admission and registration processes.
- The program follows the rules of acceptance and transfer processes approved by Taif University administration.
- Moreover, student Admission requirements and courses prerequisites are also included in the college hand book which is available online in:

[https://www.tu.edu.sa/Attachments/b9497604-afd3-4723-a654-cc23d9134efe .pdf](https://www.tu.edu.sa/Attachments/b9497604-afd3-4723-a654-cc23d9134efe.pdf)

- It should be pointed out that Taif University administration has dispatched some regulations and guidelines that organizes the admission and registration requirements for all programs. These are available by accessing the following guides and regulations links:

1. Policies and Procedures Manual for the Deanship of Admission and Registration.
https://www.tu.edu.sa/Attachments/c0a3e8a1-12e5-4c57-b9d5-97b4c67c50ef_.pdf
2. Student Handbook at Taif University
https://www.tu.edu.sa/Attachments/41dc8a24-22b7-4ae1-9b31-3608de8bcf8b_.pdf
3. Simplified Academic Guide at Taif University
https://www.tu.edu.sa/Attachments/5b497048-df49-4d1b-86ce-12197525e307_.pdf
4. Regulations for study and exams for the undergraduate level and the executive rules at Taif University
<https://webapps3.tu.edu.sa/dar/pdf/s1.pdf>

Student Admission
Requirements**➤ Special Requirements**

In addition to the general requirements, there are special requirements for the College of Engineering. Admission to the College of Engineering is based on a student's total score. Students are ranked and selected according to their composite average as follows:

- High School GPA:

- 40 % of the percentile grade in the General High School Test is considered.

-General Aptitude Test:

- 30 % of the General Aptitude Test (GAT) is considered. GAT is a special test organized twice yearly by National Commission for Academic Accreditation and Assessment (NCAAA). This test includes assessment of students' Math and linguistic skills. This test is carried out four times in the last four semesters and the best of them is considered.
- Subject Achievement Test (SAT).
- 30 % of the SAT is considered. SAT is a special test organized once after High School by NCAAA. The SAT score is calculated as a composite score of a test administered in five subjects, namely; Math., Physics, Chemistry, Biology, and English.
- The student's total score is calculated from a weighted combination of these three test scores. The weight of each test score is determined by the university council. Priority is given to the students having the higher total scores. The number of students who can be accepted in the College of Engineering is determined yearly by the University Council taking into consideration the college capacity. Deanship of Admission and Registration sends to the College of Engineering a list of students accepted in the College. Students accepted in the College of Engineering study could choose the department according to their score and hope.

➤ Evaluating Student Performance

This is the process by which student performance is evaluated and student progress is monitored. It includes information on how the program ensures and documents that students are meeting prerequisites and how it handles the situation when a prerequisite has not been met.

➤ Examination and Grading System

Each course has been designated a total of 100 points. Success in a course is usually based on the combination of grades awarded to course work and final examination. According to the department council recommendation, the faculty council, who provides the subject specify the semester work marks 40% to 60% of the total mark designated for the course, while the remainder is for the final examination. The satisfactory-exemplary level (pass mark) in each course is 60 % according to Taif University regulations.

The grading system at Taif University is shown in the following Table . A student's Grade Point Average (GPA) is determined by dividing the cumulative point value of all courses attempted by the number of total units in the student's semester schedule.

Grading System at Taif University

Points	Symbol	GPA [Out of (4)]
From 95 to 100	A ⁺	4.0
From 90 to 94	A	3.75
From 85 to 89	B ⁺	3.5
From 80 to 84	B	3.0
From 75 to 79	C ⁺	2.5
From 70 to 74	C	2.0
From 65 to 69	D ⁺	1.5
From 60 to 64	D	1.0
Less than 60	F	0

The overall cumulative average for the student at the graduation time according to his cumulative average as follows:

-(Excellent): If the cumulative average is not less than (3.50 out 4.0).

-(Very good): If the cumulative average from 2.75 to less than 3.5 (out of 4.0).

-(Good): If the cumulative average from 1.75 to less than 2.75 (out of 4.0).

-(Pass): If the cumulative average from 1.00 to less than 1.75 (out of 4.0).

First Honor granted to the student who acquire cumulative average from (3.75) to (4.00) out of (4.00) at the time of graduation. Second Honor granted to the student who acquire cumulative average from (3.25) to (3.75) out of

(4.00) at the time of graduation.

For the student to acquire the first or the second honor the following conditions are required:

Students should not fail in any course taken in the TAIF University or ANY other university.

A student should fulfill the graduation requirements during a period its maximum is the average between the minimum limit and the maximum limit of being in his faculty.

Student study in the university who will graduate from at least (60%) of the graduation requirements.

The grade of “Incomplete” (IC): It is permitted to delay the grade of a course due to non-completion of its requirements with the permission of the instructor and the approval of the Department Council. But this delay should be for no more than one main semester. If this delay lasts for more than one semester, grade will be automatically changed to “Fail” (F) grade.

The grade of “In Progress” (IP): Some courses need more than one semester to complete their requirements particularly those including research work or training. For these courses, the student can postpone his grade to be "In Progress” (IP). Student will admit his grade upon completion of the course or otherwise, the department council could grade the course “Incomplete” (IC) in his transcript.

➤ **Attendance monitoring and rule of students' exclusion from attending the final examinations**

Believing that regular course attendance is necessary for academic success, Taif University requires that students do not miss more than 25% of the total number of lectures, labs and tutorials. The rules governing courses attendance requirements are shown to the students on both the University and College sites, and they are also included in the College Hand Book. The instructors regularly register the students' attendance in the courses via Taif University electronic admission system.

If student has a total absence of more than 25 % during a semester period in a certain course, the course's instructor report to the Deanship of Admission and Registration to exclude that student from the final exam of this course and earn a DN (Denied) grade in that course. Furthermore, the student who is absent in the final examination of a course(s) is not given a make-up examination, except for a valid

Student Admission Requirements

reason accepted by the department council and then approved by the college council. Student monitoring during the lab courses is done by the lab. instructor for the laboratory sessions. Attending the lab. and performing the experiments are essential. The student is not allowed to submit a laboratory report if he did not carry out the experiment by himself.

➤ **Probation**

According to the regulations at Taif University, all students are required to maintain a GPA of at least 2.0 out of 4.0. Those who fail to maintain this average will be placed on scholastic "probation". An academic warning is issued for the student who is put on probation. The warning is also shown to the student's academic advisor on the electronic admission and registration system. The student is given two semesters in which he seeks assistance to meet the university GPA requirements. If this condition is not met within the two semesters of probation, the student may then be dismissed from his study program at the College of Engineering.

➤ **Evaluating Methods**

Student performance in each course is evaluated by the instructor, culminating with the assignment of a grade for this course. The number and types of graded assignments will vary according to what is most appropriate for the course in question. These assignments generally comprise some combination of examinations, quizzes, homework, and/or laboratory reports. Projects and/or oral presentations are required for some courses. The final year projects are graded by a group of faculty members, not only by the supervisor. Therefore, the methods of evaluating student performance are summarized as:

- Quizzes and Activities: to assess student gradual understanding of course subjects.
- Labs Reports: to assess experimental, data collection, and technical report writing abilities.
- Case Study Reports: to assess technical report writing and data collection abilities.
- Discussion Groups and Presentations: to assess personal interaction and communication skills.
- Midterm Exams: to assess student understanding of course subjects, problem solving abilities, and analytical and design capabilities.

Student Admission Requirements

- Final Exam: to assess the student's overall understanding of the course as well as his analytical and problem-solving capabilities.

➤ **Process for Ensuring that Prerequisites have been met and Process for Eliminating Pre-Requisite Violations (If any)**

Normally, a student is not allowed to register for a course without taking the prerequisite courses as specified in the study plan. Pre-requisites are automatically checked by the university electronic registration system. It does not register for any course unless the student has passed the pre-requisite courses. The registration department has the data of prerequisites in their system. It does not allow any student to take a course without a prerequisite taken already. Any pre-requisite violations present after the registration period are rectified by the department using the following process.

- Each academic advisor prints the transcripts of all students who are under his guidance.
- The academic advisor audits the transcripts for the violations. It takes 2 or 3 days to do the auditing.
- The chair of the advising committee collects the list of violations from all members, reviews them and then hands over to the chairman of the department.
- The chairman then drops the courses registered by the students with pre-requisite violations using the online system.

➤ **Transfer Students and Transfer Courses**

The transfer of students to the college can be done through different channels. There are four types of transfer:

- C1. Transfer from other equivalent institution.
- C2. Transfer of students within Taif University.
- C3. Transfer between Departments of College of Engineering.
- C4. Transfer Credits taken in other institution

In all cases, some materials are essential to be available before taking a decision for the transfer process. These materials include study plan, course/s' syllabi, exams, homework, projects report of the academic status progress of the student (who is requesting for the transfer process). The dept. head is responsible for collecting such material then he will form a committee based upon case-by-case

Student Admission Requirements

basis. This committee may contain one or two or more specialized instructors in the subject/s of the transfer process. This committee studies all offered materials and investigates the fulfilment of the dept., college and university requirements for transfer. Then, the committee takes the final decision with the dept. head regarding such transfer case. The above-mentioned transfer channels are explained in detail in the following subsections.

✓ **C-1 Transfer from Other Equivalent Institution**

A student may transfer from another equivalent university or educational institution to Taif University, according to the following requirements:

- The student studied and transferred from a recognized university or educational institution.
- The student should not have been dismissed for any disciplinary reasons from the institution that he has transferred from.
- The freshman should spend at least two semesters in his university before being allowed to transfer to Taif University. The transferred student should study at Taif University not less than 60 % of the total units required for the bachelor's degree by the university.
- The student who had previously studied at Taif university and then go to another university and he want to return again to Taif University, his new ID in Taif University will be the same as before leaving Taif University.
- The student should fulfill the conditions of the department and college he wants to transfer to. The Department and College Councils determine the courses he taught and the courses he should study as well as at which level he should continue his study after evaluating his credit hours.
- All student transfer rules that the university council specified are applicable for the student case.

The procedure for evaluating transfer applications to the College of Engineering from outside the university is as follows:

- The student should satisfy the college admission conditions which are announced on the College web-site.
- Fill in the university application form.

Student Admission Requirements

- Upon receiving all applications, the Deanship of Admission and Registration collects and sends all applications that satisfy the college requirements to the college's dean. The college dean evaluates the presented applications information and makes decisions on transfer applications via a committee (College based committee).
- The College Council approves the transfer courses that the student has studied out of the university according to the recommendation of the appropriate Department. The courses which have an average of less than 2.0 (grade C) out of 4.0, are not considered or what will be approved by the University Council.
- If it is found that the student has been dismissed beforehand for any disciplinary reasons, the student registration is cancelled from the date of acceptance of his transfer to the university.

✓ **C-2 Transfer of students within Taif University**

To transfer from other colleges within Taif University, the student should satisfy the College of Engineering admission conditions which are announced on the College web site. These conditions are as follows:

- Student can apply for transfer only after studying at least two semesters, excluding summer semester, in the college he is transferring from.
- The student should not have spent more than four semesters in his college, which he wants to transfer from it.
- The student should not have been transferred from another college within the university

The procedure for evaluating transfer applications is as follows:

- Fill in the transfer form (Inter-College Transfer Form) within the dates announced by the university. Submit the transfer form to the Deanship of Admission and Registration to ensure the availability of the general conditions to transfer to College of Engineering.
- Submit the form to the college's dean and then to the College based committee.
- Upon receiving all applications, a designated college-based committee (which consists of the vice dean and the heads of all departments) meets and

Student Admission Requirements

recommends transfer applications.

- The tentative transfer decisions are then forwarded to the dean for final approval.
- The academic committee of each department reviews transcripts of all tentatively accepted transfer students and decides on the equivalency of credits based on an equivalency table of credits approved by the College Council.
- All transfer applications shall be returned to the Deanship of Admission and Registration after approval by the president of the university. The registrar office will fix all the student's grades for the courses that he has previously studied in his academic record.

✓ **C-3 Transfer to another department within the College of Engineering**

The student can move between the departments easily before the fifth level. However, the conditions to transfer between departments of the College of Engineering are as follows.

- The student can apply for transfer only after studying at least one semester, excluding summer semester, in the department he is transferring from.
- The student should not have been transferred from another department within the college previously.

The procedure for evaluating transfer applications between departments of College of Engineering is as follows:

- Fill in the Inter-departmental Transfer Form and submit it to the college dean.
- Get the recommendation of the head of the department to be transferred to. The head will do the transfer via Taif University electronic admission system.
- The academic committee of each department reviews transcripts of all tentatively accepted transfer students and decides on the equivalency of credits based on an equivalency table of credits approved by the college council.

✓ **C.4. Transfer Credits Taken in Other Institutions**

Students can transfer credit hours that have been studied in other institutions. The maximum allowable percentage of credit hours that could be transferred by students from other universities is 60% of the total credit hours in the

Student Admission Requirements

curriculum. These courses are evaluated by the Department Academic Committee and faculties who teach these courses and approved by the department chairman. Transferred credits are not included in the GPA and a pass grade is assigned to those courses. Students who want to study courses in other universities should do the following:

- Fill in a course transfer form and submit it to the chairman of the department.
- The chairman consults the course instructor.
- The course instructor reviews the syllabus of the transfer course in light of the departmental course syllabus and checking the equivalency of the syllabus and credits (the course transferred syllabus should be more than 70% of the course syllabus at TU and also the grade of the course transferred is more than C).
- The chairman approves the equivalency and signs the form.
- The student should then get the approval of the vice dean.
- The student hands in the form to the university registrar office and gets an official acceptance letter to study the course at the specified university.

➤ **Advising and Career Guidance**

The process for advising and providing career guidance to students. It includes information on how often students are advised, who provides the advising (program faculty, departmental, college or university advisor). The University requires student guidance from faculty members. It is an important teaching-related activity. A faculty member is expected to advise students in planning their academic programs during early registration, registration and throughout the academic year whenever a student seeks his advisor's input in academic matters.

✓ **Enrollment Advising and Procedure**

Academic advisors are considered the corner stone of the educational process in which provide educational counseling for students. The department chairman allocates a group of students to each faculty member. This allocation is recorded into Taif University electronic admission system for students' access. Each advisor has on-line access to the records of the students he is advising. All students are registered automatically through Taif University electronic

Student Admission Requirements

admission system following a model plan of study set by the department. This plan includes all pre-requisites, maximum and minimum allowable number of credit hours per semester. The system allows the student to make changes and adjustments within the present rules. All students, except the new ones, can check their registered courses and schedule for the upcoming semester and make the necessary adjustments during the last days of the previous semester in consultation with his adviser. During the first week of classes, students are allowed to make changes, such as add/drop courses. Afterwards, only course withdrawals are allowed provided they are done five weeks before the final examination period, and with the head of department's approval. Nevertheless, a student can only drop courses or withdraw from courses if his workload will not fall below a minimum of 12 credit hours.

✓ **Tasks of the Academic Advisor**

Academic advisors are supposed to provide educational counseling for students. The academic advisor's primary responsibility is to evaluate the student's study plan to ensure it will satisfy university requirements while it meets each student's specific needs. To be effective, the advisor should recognize that each student has different abilities, interests, aspirations, needs, experiences, and problems so that his approach in dealing with students can be different from one to the other. Academic advising cannot, therefore, be a mechanical, routine matter. To fulfill this requirement, the general advising duties can be stated as follows:

- The academic advisor is expected to deal with students' academic, career, and academic-related personal problems.
- The academic advisor fortunately informs his student advises about the study plan and helps them to understand the graduation requirements. The Course Planning and Registration (CPR) of the civil engineering curriculum can be presented to the advisees.
- The academic advisor helps his advisee students examine the course offerings in their major and understand their graduation requirements.
- The academic advisor schedules and plans the prerequisite map of courses for students under his guidance to avoid any conflict and hence, improve the performance of the student through the whole of his study.

Student Admission Requirements

- The academic advisor helps the student in making the selection of the field experiences and graduation projects.
- The academic advisor helps the student explore the career fields within his major, obtain related career information and survey job opportunities.
- The academic advisor serves as a link between the student and the administration by counseling the student on matters of failure, on the procedures for dropping and adding courses, course scheduling, and academic progress.
- The academic advisor should warn students of the exclusion procedure well in advance, and of any subsequent changes that might be enforced during their studies.

➤ **Guidelines for Advisees**

The student must meet with his academic advisor every semester prior to or during the registration week each semester. The goal of this meeting is to review the student academic requirements. In addition, the student can take an appointment to meet individually with his academic advisor to discuss the program of study, career plans, or any problems he may encounter in the study program.

➤ **Work in Lieu of Courses**

The requirements and process for awarding credit for work in lieu of courses. This could include such things as life experience, Advanced Placement, dual enrollment, test out, military experience, etc. The university only grants credit(s) for the academic courses that are successfully completed. No credit is offered towards achieving life experience, advanced placement, dual enrollment, and military experience.

➤ **Graduation Requirements**

The graduation requirements for the program and the process for ensuring and documenting that each graduate completes all graduation requirements for the program. Name of the degree awarded (Bachelor of Science in Civil Engineering. The deanship of admission and registration of the university is responsible for ensuring that graduating students have met all the graduation requirements. The academic registrar checks and makes sure that graduating students are fulfilling all the requirements to graduate (summer training, graduation project, and courses requirements).

Student Admission Requirements

The requirements for the Civil Engineering Program include various disciplines in civil engineering courses, math, science, and humanities. The student has to successfully finish a total of 153 credits and a cumulative GPA not less than 1.75 (grade C) out of 4.0. The credit requirements are distributed as follows:

- General Education:
- Mathematics and Basic Sciences:
- Engineering courses:
- Core courses:
- Elective Courses:

➤ **Transcripts of Recent Graduates**

The program is designated as: "B.Sc. of Civil Engineering".
The transcripts indicate:

"Bachelor of Science in Civil Engineering"

Definition

- **Academic Integrity Definition**

Academic integrity means conducting oneself with honesty and responsibility in study, scholarship, and all aspects of one's education at university. Academic assignments and activities exist to help students learn; grades exist to show how fully this goal is attained; course credit is granted so that the student is prepared for further study in the program. Therefore, all work and all grades must result from the student's own understanding and effort, and the only operative consideration should be merit.

Purpose

- **Purpose**

The goal of the Academic Integrity Policy is to ensure that the highest ethical and professional standards of performance and conduct are adhered to, at all times, in Taif University, so that the University maintains its high reputation for the fairness and equity of all of its students, and the quality assurance of its graduates.

Policy

- **Policy**

All faculty members, students, and administrative staff members are required to abide by the guidelines listed below in reference to the academic integrity practices expected at Taif University.

Violations

- **Academic Integrity Violations**

- **Assignment Misconduct**

This includes, but is not limited to, the submission of work that is to be marked, and for credit, that is:

1. Taken from unauthorized sources (Wikipedia, Cliff Notes, Coles Summaries, etc.)
2. Copied or paraphrased point-by-point from another student
3. Previously or simultaneously submitted, in another course, for credit

- **Exam Misconduct**

This includes, but is not limited to, the act of:

1. Copying, or even intentionally looking at, the work of another student
2. Obtaining and using –or attempting to do so— unauthorized aids or information of any kind
3. Speaking to another student, once the exam has officially begun

➤ **Falsification/Fabrication**

This includes, but is not limited to, the act of:

1. Taking a test, major, or exam in place of another student
2. Arranging for another student to take a test, major, or exam for the offending student.
3. Presenting false or forged identification at a test, major, or exam

➤ **Plagiarism**

This occurs when one takes phrases, sentences, paragraphs, ideas, rhetorical organization, or identifiable ideas and insights from a published or unpublished source –book, article, website, etc., and uses these in one’s own work without providing specific credit to the source, as to where these components were taken from.

In other words, one needs to distinguish between the writing and ideas that are one’s own, and the writing and work taken from somewhere else and used. There is nothing wrong with using the work of other writers, as long as credit is given to the sources –the places it was found. There is a need to do these 3 things:

1. Acknowledge that it is not yours.
2. Specify who actually wrote it, and where and how it appeared, and where you found it.
3. Provide annotation/information that enables the teacher (or any other reader of your work) to look it up and see it in its original form –the form you used.

Curriculum

➤ Curriculum

✓ Curriculum Structure

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Institution Requirements	Required	9	18	11.76%
	Elective	2	4	2.61%
College Requirements	Required	16	47	30.73%
	Elective	0	0	0.00%
Program Requirements	Required	30	68	44.44%
	Elective	4	8	5.23%
Capstone Course/Project		2	6	3.92%
Field Experience/ Internship		1	2	1.31%
Others		0	0	0.00%
Total		64	153	100%

* Add a table for each track (if any)

✓ Program Study Plan

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 1	105115-2	History of the Kingdom	Required	-----	2	Institution
	2004111-2	Fundamentals of Islamic Culture	Required	-----	2	Institution
	2028110-3	Mathematics (1)	Required	-----	3	College
	204102-3	General Chemistry	Required	-----	3	College
	802201-3	Introduction to Computer Programming	Required	-----	3	College
	999805-2	English for Intensive Academic Purposes (1)	Required	-----	2	Institution
Level 2	2028120-3	Mathematics (2)	Required	2028110-3	3	College
	203205-4	Physics	Required	2028110-3	4	College
	8021201-2	Engineering Drawing	Required	-----	2	College

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
	990211-2	Arabic Language Skills	Required	-----	2	Institution
	990311-2	University Study Skills	Required	-----	2	Institution
	999806-2	English for Intensive Academic Purposes (2)	Required	999805-2	2	Institution
Level 3	2022101-3	Multi Variable Calculus	Required	2028120-3	3	College
	8012101-2	Fundamentals of Engineering Economy	Required	-----	2	College
	8012102-2	Hydraulics (1)	Required	203205-4	2	Department
	8012103-3	Statics	Required	2028120-3	3	Department
	8022101-3	Introduction to Engineering Design 1	Required	999806-2	3	College
	999816-2	Special English Language for Engineering	Required	999806-2	2	College
Level 4	2004112-2	Islamic Culture (Morals and Values)	Required	2004111-2	2	Institution
	2022102-4	Mathematical Methods	Required	2022101-3	4	College
	8012201-2	Civil Drawing	Required	8021201-2	2	Department
	8012202-3	Structural Analysis (1)	Required	8012103-3	3	Department
	8012203-2	Technical Reports	Required	999816-2	2	Department
	8012204-2	Hydraulics (2)	Required	8012102-2	2	Department
	8012205-2	Surveying (1)	Required	2028110-3	2	Department
Level 5	2023104-2	Linear Algebra	Required	2028120-3	2	College
	2028102-4	Differential Equations	Required	2022101-3	4	College
	8013101-2	Engineering Geology	Required	203205-4	2	Department
	8013102-2	Surveying (2)	Required	8012205-2	2	Department
	8013103-2	Structural Analysis (2)	Required	8012202-3	2	Department
	As per Table of University Electives	Elective University (1)	Elective	-----	2	Institution
	8032101-3	Basics of Electrical Circuits	Required	203205-4	3	College
Level 6	2004313-2	Islamic Culture (3)	Required	2004112-2	2	Institution
	2023206-3	Numerical Analysis	Required	2028102-4	3	College
	2024116-3	Probability and Statistics	Required	2028120-3	3	College
	8013201-2	Geotechnical Engineering (1)	Required	8013101-2	2	Department
	8013202-2	Water Resources Engineering	Required	8012204-2	2	Department

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
	As per Table of University Electives	Elective University (2)	Elective	-----	2	Institution
	8013203-3	Properties and Strength of Construction Materials	Required	8012202-3	3	Department
Level 7	2004414-2	Islamic Culture (4)	Required	2004313-2	2	Institution
	8014101-3	Design of Steel Structures (1)	Required	8013103-2	3	Department
	8014102-2	Geotechnical Engineering (2)	Required	8013201-2	2	Department
	8014103-2	Concrete Technology	Required	8013203-3	2	Department
	8014104-3	Design of Reinforced Concrete Structures (1)	Required	8013103-2	3	Department
	8014105-2	Transportation and Traffic Engineering	Required	2024116-3	2	Department
	8014201-3	Design of Reinforced Concrete Structures (2)	Required	8014104-3	3	Department
Level 8	8014202-2	Foundation Engineering	Required	8014102-2 8014104-3	2	Department
	8014203-3	Highways Engineering	Required	8014105-2	3	Department
	8014204-2	Construction Methods and Equipment	Required	8014103-2	2	Department
	8014205-3	Sanitary and Environmental Engineering	Required	8012204-2	3	Department
	8014206-2	Building Construction	Required	8012201-2	2	Department
	Summer Session after Level 8	8014301-2	Summer Training	Required	-----	2
Level 9	8015101-3	Project (1)	Required	-----	3	Department
	8015102-2	Contracts, Specifications and Quantity Surveying	Required	8014206-2	2	Department
	8015103-2	Construction Management	Required	8014204-2	2	Department
	8015104-2	Railways Engineering	Required	8014105-2	2	Department
	As per Table of Department Electives	Elective (1)	Elective	As per Table of Dept. Electives	2	Department
	Elective (2)	Elective	2		Department	
Level 10	8015201-3	Project (2)	Required	8015101-3	3	Department
	8015202-2	Design of Steel Structures (2)	Required	8014101-3	2	Department
	8015203-2	Engineering Ethics	Required	-----	2	Department
	8015204-2	Sustainable Infrastructure Projects	Required	8013102-2	2	Department
	As per Table of Department Electives	Elective (3)	Elective	As per Table of Dept. Electives	2	Department
	Elective (4)	Elective	2		Department	

✓ **University Elective Courses**

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
List for University Elective (1)						
Level-5	990113-2	Health Culture	Elective	-----	2	Institution
	990312-2	Innovation and Entrepreneurship		-----	2	
	990412-2	Digital Citizenship		-----	2	
List for University Elective (2)						
Level-6	990314-2	French language	Elective	-----	2	Institution
	990315-2	Chinese Language		-----	2	
	999809-2	Presentation Skills		-----	2	
	999814-2	IELTS Preparation		-----	2	
	999815-2	Academic Writing		-----	2	
	999821-2	English Language and Skills for the Twenty-first Century		-----	2	

✓ **Department Elective Courses**

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level-9 & 10	8015301-2	Special Topics in Public Works Engineering	Elective	-----	2	Department
	8015302-2	Advanced Highways Engineering		8014203-3	2	
	8015303-2	Advanced Transportation Engineering		8014105-2	2	
	8015304-2	Remote Sensing		8013102-2	2	
	8015305-2	Special Topics in Highways Engineering		8014203-3	2	
	8015306-2	Photogrammetric Surveying		8013102-2	2	
	8015307-2	Geographic Information System		8013102-2	2	
	8015308-2	Engineering applications of surveying		8013102-2	2	
	8015309-2	Airports Engineering		8014203-3	2	
	8015310-2	Special Topics in Surveying		8013102-2	2	
	8015311-2	Advanced Traffic Engineering		8014105-2	2	
	8015312-2	Reinforced Concrete 3		8014201-3	2	
	8015313-2	Inspection, Maintenance and Strengthening of Structures		8014103-2	2	
	8015321-2	Special Topics in Construction Engineering		-----	2	
	8015314-2	Advanced Construction Management Engineering		8015103-2	2	
8015315-2	Concrete Bridges	8014201-3	2			

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
	8015316-2	Foundation on Problematic Soils		8014102-2	2	
	8015317-2	Design of Composite Structures		8014201-3	2	
	8015318-2	Dynamics of Structures and Earthquake Engineering		8013103-2	2	
	8015319-2	Applications of Nanotechnology in Civil Engineering		8014103-2	2	
	8015320-2	Deep and Special Foundations		8014202-3	2	
	8015322-2	Harbor Engineering and Coastal Protection		8012204-2	2	
	8015323-2	Hydrology of Groundwater		8013202-2	2	
	8015324-2	Design of modern Irrigation Systems		8013202-2	2	
	8015325-2	Buildings Sanitary Installation		8014205-3	2	
	8015326-2	Advanced Hydraulics		8012204-2	2	
	8015327-2	Dams Engineering		8012204-2	2	
	8015328-2	Special Topics in Water Resources Engineering		-----	2	
	8015329-2	Hydraulic Modelling		8012204-2	2	

➤ FACILITIES

✓ **Offices, Classrooms and Laboratories**

Each of the program's facilities in terms of their ability to support the attainment of the student outcomes and to provide an atmosphere conducive to learning.

1. Offices (such as administrative, faculty, clerical, and teaching assistants) and any associated equipment that is typically available there.

2. Classrooms and associated equipment that are typically available where the program courses are taught.

3. Laboratory facilities including those containing computers and the associated tools and equipment that support instruction. They include those facilities used by students in the program even if they are not dedicated to the program and state the times, they are available to students.

✚ **Offices**

The department has a strong human resource team made up of faculty, administrative assistants, and other support personnel. There are non-faculty personnel allocated strategically to support our mission: administrative assistants, secretary. In addition, the Department has the support of 2 lecturers. In general, support personnel are considered adequate.

The civil engineering department is located in the second floor of the main building of the college. The dept. consists of eight private offices, dept. head office, conference room, and dept. council room. Most full-time faculty members have private offices; two or three share an office.

On the other hand, the University was given a land grant of about 17,000,000 square meters for its new future developments. These will include new college buildings, a new university hospital, ancillary facilities and dormitories. Work is already underway with an estimated cost of 480.000.000 SAR. The College of Engineering on the new campus of the university will be built at a cost of SAR 94 million. The concrete Skelton of the college building is going to be completed and the stage of finishing works will start within a few months. This new college building will provide the CE department with more space for different activities.

✚ Classrooms

Taif University has a wide range of classroom facilities to meet the needs of its teaching and learning mission. General-purpose classrooms are centrally scheduled and managed and are designed to serve the entire campus community. Besides the new building, General-purpose classrooms (also referred to as intelligent classrooms) include rooms that range from small seminar classrooms to large auditoria. They include a wide range of equipment, technology, and resources. General-purpose classrooms are sufficiently flexible to meet pedagogical requirements of the many departments, faculty and students who use them.



Intelligent Classrooms Building

The classroom facilities used for the instructional program are designed to fulfill the requirements. Classrooms are housed in private buildings in the university. Some classrooms contain from 30 to 60 seats, and others contain 120 seats.

All classrooms have modern teaching facilities.

- ✚ Air conditioning.
- ✚ Computer projector.

There are also special rooms for engineering and civil drawing courses,

FACILITIES



Classroom Doors with Room Numbers



FACILITIES



Drawing Halls with Approximately 30 Students

This type of rooms is typically used for small section classes.



FACILITIES



Classrooms with Approximately 30 Students

Auditoria Hall with Approximately 50-80 Seats



a) Classrooms with Approximately 50 Students



**b) Classrooms with Approximately 80 Students
Auditoria Hall with
Approximately 50-80 Seats**

○ Auditoria Hall with Approximately 200 Seats

This type of room is most suitable for traditional lectures, A/V Presentations, basic distance learning and demonstrations. Typically, a sloped floor or tiered floor is required to achieve good sightlines for all seats.



Auditoria Hall with Approximately 300 Seats

- **Auditoria Hall with Approximately 300 Seats**

This type of room is most suitable for traditional lectures, A/V presentations, basic distance learning and demonstrations. Typically, a sloped floor or tiered floor is required to achieve good sightlines for all seats.

- **Laboratories**

Civil Engineering Department laboratories are located in a special separate building. Some labs are ready as follows:

Geotechnical engineering laboratory

<https://www.tu.edu.sa/En/Civil-Engineering-Program/241/Pages/21385/Geotechnical-Lab>

Surveying and photogrammetric laboratory.

<https://www.tu.edu.sa/En/Civil-Engineering-Program/241/Pages/23155/Surveying-Laboratory>

Hydraulics and Hydrology laboratory.

<https://www.tu.edu.sa/En/Civil-Engineering-Program/241/Pages/21450/Hydraulics-and-Hydrology-lab>

Strength of materials and concrete technology laboratory.

<https://www.tu.edu.sa/En/Civil-Engineering-Program/241/Pages/21449/Strength-of-materials-and-concrete-technology-laboratory>

Structural-Testing Machine laboratory.

<https://www.tu.edu.sa/En/Civil-Engineering-Program/241/Pages/21447/Structural-Testing-Machine-Lab>

○ **Geotechnical Engineering Laboratory**

The geotechnical engineering laboratory contains equipment for testing soils in shear, consolidation, and for other physical and chemical tests. Field testing and sampling equipment is also available. As well it contains a triaxial testing system for both research and instructional purposes. description and identification of soils (visual manual procedure).; moisture content of soil (oven methods); the specific gravity of soil; the liquid limit, plastic limit and plasticity index of soil; grain size analysis of soil, determining moisture-unit weight relations of soil (compaction test) determining the density and unit, weight relations of soil in-place by sand-cone method and permeability test for fine grained (falling head test) and granular soils; constant head test. The capacity of the laboratory is about 20 students. The following figure illustrates the layout of this laboratory and some views of its equipment.



Geotechnical Engineering Laboratory

FACILITIES

○ **Surveying and Photogrammetric Surveying Laboratory**

The Surveying Laboratory has a wide variety of modern surveying equipment, such as GPS-based surveying equipment, total stations, theodolites, and automatic levels for basic instructional and research purposes. Undergraduate students use the laboratory as an integral part of their surveying coursework and obtain any topographic information that can help their capstone design projects, such as highway design and land development. Student use of the lab is preceded by appropriate safety training and instruction on the use and care of the equipment.



Some Surveying Instruments Included in the Surveying Laboratory

○ **Hydraulics & Hydrology Laboratory (HHL)**

The capacity of the laboratory is about 15 students. The hydraulics laboratory illustrates principles of flow and water system design. The laboratory contains many equipment and instruments serving the purpose of the laboratory as shown in the following:

1. Advanced Hydrology System (HM145)

1. The instrument is used to carry out many studies in hydrology such as:
2. Seepage and movement of the water in soils.
3. Investigation of various drainage systems.
4. Investigation of flow around bodies, erosion and siltation in the riverbed.
5. Effect of precipitation of varying duration on soils with different saturation.
6. Investigating the seepage flow.
7. Investigating the storage capacity of a soil.



2. Drainage and Seepage Tank (HM169)

1. The instrument allows to conduct an extensive range of experiments, such as:
2. Determination of the pressure distribution on bulkheads or seepage and groundwater flow under sheet piles.
3. Determination of the flow nets in permeable media graphically.
4. Determination of the pressure curve at a foundation, a bulkhead, groundwater levels over time in various models.



3. Modular Flow Channel (HM162)

Modular flow channel HM 162 is a basic unit for wide-ranging experimentation possibilities in open flumes such as weirs, overflows, sluices, oceanography and offshore engineering such as measurements on waves and also coastal protection measures e.g. dyke construction and beach simulation.

There are many hydraulic applications of the instrument such as, flow rate, pressure, pressure ratios, flow velocity and velocity profile, influence of the wall shape (Venturi channel), influence of the roughness, flow number, natural gradient, accelerated or delayed flow, and sediment transport. Moreover, there are applications of the energy and continuity equation, measurements on various resistance bodies, lifting and drag forces, positive and negative surges, waves.



✚ Accessories

Batching trough conveyors are designed to provide consistent batching of bulk material for processing and weighing equipment. They incorporate an electromagnetic vibrator unit on which the conveying trough or tube is mounted.



○ **Strength of materials and concrete technology laboratory**

The Strength of materials and Concrete Testing Laboratory contains facilities for conducting tests on metals, fresh concrete, and hardened concrete. The laboratory has facilities for mixing, casting, curing, and testing concrete cylinders, beams, and reinforced concrete structural members. The capacity of the laboratory is about 20 students.

✓ **Tests carried out on metal**

1. Universal testing machine

The figure shows the universal testing machine. Many tests could be carried out by this machine as follows:

1. Tension test.
2. Compression test.
3. Bending test



2. Hardness testing machine

The tests that can be conducted by this machine are:

- a) Brinell hardness test
- b) Vickers hardness test
- c) Rockwell hardness test



✓ **Tests carried out on fresh concrete**

1. Air Content in Concrete

Through this test, the air entrainment in fresh concrete can be determined.



2. V-BE compaction tester

The main test carried out by this equipment is the Compaction of fresh concrete.



3. Slump Test Equipment



✓ Tests carried out on hardened concrete

1. Universal testing machine

Figure shows the universal testing machine.

Many tests could be carried out by this machine on hardened concrete such as compressive strength test and bending test.

2. Density of Hardened Concrete

figure shows the tester that used for determination of the density of hardened concrete.



✓ Tests on Aggregates

1. Los Angeles Machine

The main tests carried out by this machine:

is the resistance to abrasion and wearing of aggregate



2. Speedy Moisture Content of aggregates

This device is used for speedy evaluation of the moisture content of aggregates.



✓ Non-Destructive Tests on concrete

1. Digital Schmidt hammer

This device can be used for estimation of the Compressive strength of concrete.



2. Rebar detector and cover meter

This device is used for detection of rebar positions and cover thickness.



FACILITIES

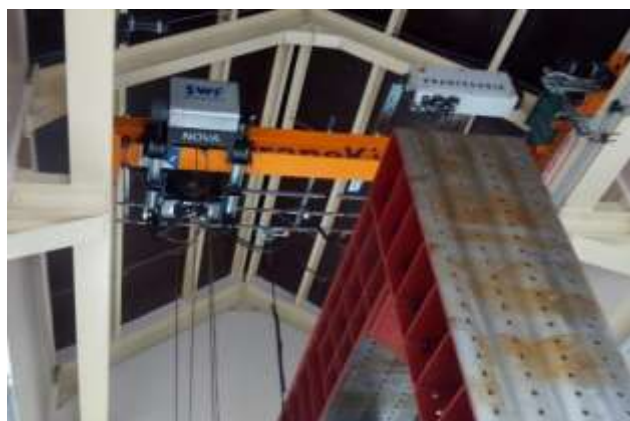
○ Highways Engineering laboratory

The highways engineering laboratory contains many equipment and instruments serving the purpose of quality control for paving materials for both flexible and rigid pavements. It has two main parts, the first is concerning aggregates and subgrade soils testing. The second part belongs to testing asphalt binders and asphalt concrete mixes.



○ Structural Testing Machine laboratory

The heavy structures laboratory contains a structural testing machine that can Demonstrate experiments related to the structural elements (beam – slab – column) behavior under static and dynamic loads. Students will gain a knowledge of the actual behavior of structural elements under several types of loading.



✓ **Faculty Personal Computer**

Each faculty member has a PC in his office that has full access to the internet, University Network and Courses registration for Students. He also has a personal laptop computer and a data show to use for lectures and experiments. The computer labs and PCs are maintained by the IT maintenance department of the University.

✓ **Electronic-Gate System**

The Deanship of Admission and Registration provides access to the electronic-gate services system to students and faculty members through the link: <http://edugate.tu.edu.sa/tu/init>.

Using the Electronic-Gate system, students can perform online registration, monitor their academic progress, view transcripts/grades, etc. while instructors can monitor their students, see their academic progress and results, insert marks and absences for students, edit their profile, etc.

✓ **Computing Tools**

As appropriate for a Civil Engineering Program, most of the modern tools that our students are exposed to involve are computing. Students work on a variety of computer systems provided with operating systems, compilers, programming languages, and integrated design environments. They use various compilers and software development environments, editors, mailers, web browsers, and so forth—the fact that these changes often reflect the dynamic nature of current computing practice. The University system for computing resources permits for upgrading of all systems every 4 years. The above-mentioned facilities are adequate to support the scholarly and professional activities of the students and faculty in our program.

✓ **Library Services**

The capability of the library to serve the program including the adequacy of the library's technical collection relative to the needs of the program and the faculty, also, the adequacy of the process by which faculty may request the library to order books or subscriptions, the library's systems for locating and obtaining electronic information, and any other library services relevant to the needs of the program.

FACILITIES

Taif University has recently allocated a substantial budget in providing a comprehensive central library which is currently being filled with numerous references such as textbooks, journals, conferences, workshops, and many more. In the past, there were only an electronic library within the whole campus but nowadays this is completed with a large physical library that is located a short distance from the College of Engineering main building. The facilities within this new building include bookshelves that can handle thousands of books and hard copy publications, several tables and chairs with comfortable reading conditions for students and researchers, PC's for direct access to the E-Library that was exclusively available in the past, but that is now fully integrated with the new Taif University Library. The librarians provide research support for engineering faculty and students; teach information literacy sessions for graduate and undergraduate students; make purchasing decisions concerning engineering resources; assist faculty with citation and publication analysis for their promotion, tenure, and retention evaluations. Beyond that, the engineering librarians serve as advocates for the interests of the college of engineering within the library. The library is open from 8 a.m. to 3 p.m., from Sunday to Thursday.

On the other hand, the Saudi digital Library (SDL) also provides access for students and staff to comprehensive journals and e-book collections from the major science and technology publishers, Wiley, Elsevier, IEEE and Springer.



a) The main facade of The Central Library



b) Side View of The Central Library



c) Internal Views

Some Views Outside and Inside the Central Library of Taif University

- **Occupational Safety and Health Guidelines**

CEP pays great attention for the occupational safety and health issues especially for laboratories. For this concern, CEP prepared and published a specific guidelines for laboratories' safety.

These guidelines are available through the following link:

<https://www.tu.edu.sa/En/Civil-Engineering-Program/241/Pages/21281/Laboratory-Safety-Guidelines>

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