



PROGRAM ANNUAL REPORT (2023-2024)

Annual Report for B. Sc. Construction and Building Engineering Program

Academic Year 2023-2024

Institute: High Institute of Engineering – 6^{th} October City

Department: Construction and Building Engineering

A-Basic Information

(1) Program Title: B. SC Construction and Building Engineering Program

(2) Program Specialty: Construction and Building Engineering

(3) Program duration: 10 semesters (5-Levels)

(4) Program structure: Credit hours system

i. No. of Credit hours: **180** Lectures /**123** Tutorial/Exercises/**133**

ii. No. of Contact hours: **256** Compulsory/ **168** Elective / **12**

iii. No. of Credit hours for Humanities and Social Sciencs (institute. Req): ${f 17}$

iv. No. of Credit hours for Mathematics and Basic Sciences: 44

v. No. of Credit hours for Basic Engineering Science (Spec. Req): 38

vi. No. of Credit hours for Applied Engineering and Design: 37

vii. No. of Credit hours for Computer Application ICT : 17

viii. No. of Credit hours for Project and Practical: 16

ix. No. of Credit hours for Discretionary (Institution Character-Identifying): 11

	Subject Area	Hours	%	Tolerance
A	Humanities and Social Sciences (Univ. Req.)	17	9.44	9–12 %
В	Mathematics and Basic Sciences	44	24.5	20-26 %
С	Basic Engineering Sciences (Faculty/Spec. Req.)	38	21.1	20-23 %
D	Applied Engineering and Design	37	20.5	20–22 %
Е	Computer Applications and ICT	17	9.5	9–11 %
F	Projects and Practice	16	8.9	8–10 %
	Subtotal	169	93.9	92-94 %
G	Discretionary (Institution character-identifying)	11	6.1	6-8 %
	Total	180	100	100%





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- (5) External reviewing system of exams: The Construction and Building Engineering program has nominated 3 staff member as external examiners to carry out the evaluation of the final exams at the end of each semester, with special focus on the width and depth of the course content and engineering applications according to a check list of evaluation.
- (6) Last date of program specifications approval: Institute council on January 2018

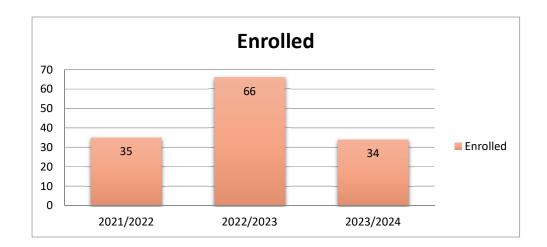
B. Professional Information

Statistics:

1. No. of students enrolled in the program:

No. of students enrolled in the program this year to those who enrolled in the previous years:

2021 / 2022	2022 / 2023	2023 / 2024
35	66	34







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2. Regarding First Term:

Number of students enrolled in the courses that offered in the **First semester** with the percentage of success are given in the following table:

#	Level	Code	Course Name					(Grad	es						No. of	Success%
				A+	А	A-	B+	В	B-	C+	С	C-	D+	D	F	Student	ess%
1		BAS001	Mathematics 1	0	0	3	8	9	11	12	8	6	5	12	14	91	85%
2		BAS002	Physics 1	0	2	1	6	7	5	7	11	3	6	15	31	99	69%
3	(000)	BAS003	Mechanics 1	2	4	10	12	16	17	7	7	9	4	1	8	100	92%
4	lan (MTE001	Engineering Drawing 1	2	5	10	9	4	11	6	9	5	3	11	34	115	70%
5	Freshman	MTE011	Production Technology	0	0	1	6	11	6	4	13	7	7	13	26	97	73%
6	Fr	HUM001	English Language	4	11	13	27	12	7	4	0	3	3	4	4	96	96%
7		ICE001	Computer Introduction	3	18	31	13	8	2	3	4	2	1	2	0	92	100%
8		HUM103	Scientific Thinking	0	2	3	3	6	10	1	4	6	3	2	1	41	99%
9	0	BAS101	Mathematics 3	2	0	0	0	1	1	0	0	1	3	25	13	46	72%
10) 10(CBE 101	Structural Analysis 1	2	5	2	0	1	1	3	1	0	5	2	17	42	60%
11	10re	CBE109	Properties Of Materials 1	0	1	2	1	2	3	1	0	3	2	10	22	49	56%
12	Sophomore) 100	CBE 102	Engineering Surveying 1	1	0	1	2	1	3	2	2	4	4	5	14	40	65%
13	(Sol	CBE 103	Building Construction	0	1	2	2	4	5	1	3	3	6	8	8	43	82%
14		CBE 110	Introduction To Fluid Mechanics	1	0	3	3	3	5	2	3	3	3	6	13	46	72%





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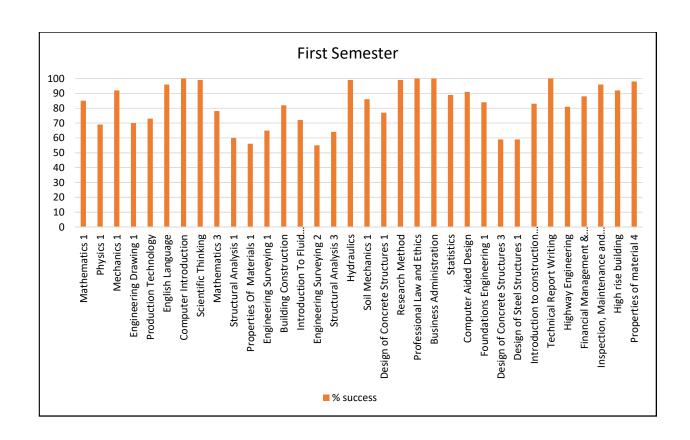
#	Level	Code	Course Name					(Grad	es						No. of	Succ
				A+	А	A-	B+	В	B-	C+	С	C-	D+	D	F	Student	Success%
15		CBE 201	Engineering Surveying 2	0	0	0	1	1	3	3	4	7	3	17	33	72	55%
16		CBE 202	Structural Analysis 3	0	1	0	2	2	2	6	3	2	4	7	17	47	64%
17	200	CBE 203	Hydraulics	6	2	8	13	6	5	2	2	2	3	1	1	51	99%
18	ior)	CBE 204	Soil Mechanics 1	0	0	1	7	3	6	7	5	8	2	8	8	55	86%
19	(Junior) 200	CBE 205	Design of Concrete Structures 1	0	1	0	1	4	3	5	6	5	4	8	12	51	77%
20		HUM 207	Research Method	0	0	0	4	3	15	8	5	1	3	1	0	40	100 %
21		HUM 206	Professional Law and Ethics	0	0	7	20	11	7	7	3	3	0	0	0	58	100 %
22		HUM 308	Business Administration	0	14	18	7	6	2	0	1	0	0	0	0	49	100%
23		BAS 302	Statistics	0	1	1	3	3	4	4	3	10	4	9	6	55	89%
24	300	CBE 301	Computer Aided Design	2	5	4	7	9	5	1	6	3	2	1	5	52	91%
25	- 01)	CBE 302	Foundations Engineering 1	0	1	4	6	6	8	4	5	2	5	6	10	59	84%
26	(Senior -	CBE 303	Design of Concrete Structures 3	0	0	0	1	4	2	3	4	6	3	15	29	70	59%
27		CBE 304	Design of Steel Structures 1	1	2	1	3	2	3	3	5	2	2	4	27	53	59%
28		CBE 305	Introduction to construction Management	0	1	5	9	6	8	3	4	3	4	3	10	56	83%
29	400	HUM 410	Technical Report Writing	0	12	24	28	11	4	5	0	0	1	0	0	86	100%
30	(Senior - 02) 40	CBE 401	Highway Engineering	1	1	6	10	10	10	8	6	13	6	9	20	104	81%
31	nior -	CBE 402	Financial Management & Accounting	6	12	11	9	12	9	9	2	4	2	12	13	104	88%
32	(Se	CBE 403	Inspection, Maintenance and Repair of Structures	5	7	14	14	12	12	5	8	1	8	2	4	92	96%





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#	Level	Code	Course Name					G	irade	es						No. of	Success%
				A+	А	A-	B+	В	B-	C+	С	C-	D+	D	F	Student	ess%
33		CBE 424	High rise building	5	8	17	20	13	11	5	2	2	3	6	9	103	92 %
34		CBE 420	Properties of material 4	0	0	1	20	17	23	14	5	8	2	4	2	96	98 %
		T	otal	43	117	204	277	226	229	155	144	137	116	229	411		







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Analysis of Significant Results or Variations:

In this section, a list of courses where completion rates, grade distribution, or trends are significantly skewed, high or low results, or departed from policies on grades or assessments. For these courses, the reason for the significant result, and what action has been taken.

#	Course Name	Significant result or variation	Action taken
1	Properties Of Materials 1	56 % success	
2	Engineering Surveying 2	55 % success	N/A
3	Design of Concrete Structures 3	59 % success	
4	Design of Steel Structures 1	59 % success	

3. Regarding Second Term:

Number of students enrolled in the courses that offered in the **Second semester** with the percentage of success is given in the following table:

#	Level	Code	Course Name					Gı	rade	!S						No. of	Suc
"	Level	couc	eourse Nume	A+	А	A-	B+	В	B-	C+	С	C-	D+	D	F	Student	Success%
1		BAS006	Mathematics 2	0	0	0	2	4	5	5	6	6	9	17	29	83	65%
2	Freshman (000)	BAS007	Physics 2	0	0	0	1	8	18	14	14	10	7	11	7	90	92%
3	Freshman (000)	BAS008	Mechanics 2	0	0	0	2	4	3	5	7	5	0	23	89	156	43%
4	ımar	BAS009	Engineering Chemistry	0	0	0	0	0	15	19	34	19	4	8	8	108	93%
5	Fresk	MTE002	Engineering Drawing 2	0	1	8	9	11	7	5	2	9	5	24	39	123	68%
6	$\overline{}$	HUM002	History Of Engineering & Technology	4	12	13	29	10	8	6	2	3	3	1	2	89	98%





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#	Level	Code	Course Name					G	rade	es .						No. of	Suc
## —	Level	Code	Course Marile	A+	А	A-	B+	В	B-	C+	С	C-	D+	D	F	Student	Success%
8		BAS106	Mathematics 4	2	1	3	6	3	8	3	3	2	2	4	0	37	100%
9		CBE 104	Structural Analysis 2	0	1	1	0	2	6	3	0	3	3	9	16	46	65%
10	100	CBE105	Architectural Design	3	4	5	5	3	7	0	2	0	2	0	3	36	92%
11	ore)	CBE 106	Engineering geology	0	0	0	3	1	0	2	1	3	1	8	20	41	51%
12	Sophomore) 100	CBE 107	Properties of Materials 2	0	1	5	2	5	6	6	4	3	1	1	1	35	97%
13	(So	HUM 105	Environmental Sciences	0	1	2	4	3	1	1	0	3	3	1	13	33	61 %
14		CBE 108	Civil Drawing	0	0	2	1	4	5	2	2	6	5	8	9	46	80%
15		CBE 206	Properties of Materials 3	0	0	0	2	2	2	2	3	3	5	22	32	77	58%
16	200	CBE 207	Structural Analysis 4	0	1	0	1	2	2	4	0	5	3	17	20	55	64%
17	Junior) 200	CBE 208	Irrigation Structures	0	0	0	0	2	1	4	3	1	4	9	50	78	36%
18	(Jur	CBE 209	Soil Mechanics 2	0	0	0	0	2	2	5	6	10	9	9	4	47	91%
19		CBE 210	Design of Concrete Structures 2	0	0	1	0	2	1	1	2	6	1	6	23	44	48%
20	300	CBE 306	Foundations Engineering 2	0	0	0	6	1	8	10	6	8	6	8	2	55	96%
21	01)	CBE 307	Design of Concrete Structures 4	0	2	2	1	6	3	7	4	7	1	12	10	57	82%
22	Senior -	CBE 308	Design of Steel Structures 2	2	1	2	1	0	4	2	2	4	2	6	16	42	62%
23	(Ser	CBE 309	Environmental & Sanitary Engineering	2	5	11	3	6	2	4	3	2	2	4	6	52	88%





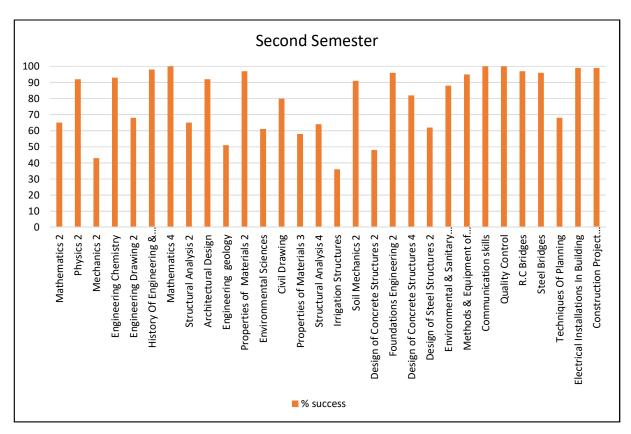
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#	Level	Code	Course Name					Gı	rade	S						No. of	Suc
-	Level	Code	Course Marrie	A+	А	A-	B+	В	B-	C+	С	C-	D+	D	F	Student	Success%
24		CBE 310	Methods & Equipment of Construction	0	0	5	8	15	10	7	4	3	5	1	3	64	95%
25		HUM 307	Communication skills	0	22	9	7	4	1	1	1	0	0	0	0	46	100 %
26	r - 02) 400	CBE 311	Quality Control	1	1	4	15	10	10	6	2	0	0	0	0	50	100%
27	0	CBE407	R.C Bridges	2	3	5	9	11	10	3	7	9	3	7	2	71	97%
28	2)40	CBE 408	Steel Bridges	0	2	4	12	13	12	10	13	5	3	11	4	91	96%
29	1	CBE 409	Techniques Of Planning	2	5	5	12	13	14	6	4	4	4	6	37	114	68%
30	Senior	CBE 410	Electrical Installations In Building	0	2	8	22	21	17	6	3	1	0	0	1	82	99%
31		CBE 411	Construction Project Specifications	0	3	8			14	7	5	4		6	1	98	99%
			Total	18	68	103	191	184	202	156	145	144	108	239	447		





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Analysis of Significant Results or Variations:

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#	Course Name	Significant result or variation	Action taken
1	Mechanics 2	43% Success	
2	Engineering geology	51% Success	N/A
3	Irrigation Structures	36 % Success	
4	Design of Concrete Structures 2	48 % Success	

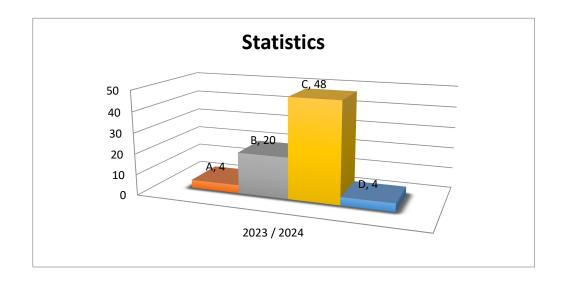




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4. Grade Point Average (GPA) distribution analysis for the graduate students :

بون	راس				ن	لناجحور	i)				اضرون	الحا	ç	Ç.	
نسبة %	315	نسبة %	جملة	مفيون	مقبول مرتفع	فثر	جيد مرتفع	ختر خدا	جيد جدا مرتفع	ممتاز	نسبة %	عدد	الطلاب المتقدمون	الطلاب الوافدين	القسم و الشعبة
-	-	%100	68	-	1	16	27	16	4	4	%100	68	68	-	هندسة التشييد و البناء (دور مايو)
-	-	100%	8	1	2	4	1	-	-	-	100%	8	8	-	هندسة التشييد و البناء (دور يناير)
-	-	%100	76	1	3	20	28	16	4	4	%100	76	76	-	الاجمـــالي







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5. Student graduated during the academic year:

ئربية عسكري	المشروع	تقنير	ж	Cit.	المعدل الثراكمي	عدد الساعات	اسم الطالب	المالة	كود شزون الطلاب	كود الطالب	T
اجتال	ممثاز ملخفض	A-	جيد جدا	В	3.13	180	ايرافيم احمد محمد احمد	مسكود	20191217	190003	+
اجتاز	چيد چدا مرتفع	B+	چود مرتفع	C+	2.80	180	احدد جمال احمد محمد	مستجد	20190036	190007	+
اجتاز	ممثاز	Α	چيد مرتقع	C+	2.53	180	الحد رمضان قطب محمد ميارك	سنجد	20192330	190010	+
اجتاز	ممثاز مرتفع	A+	جيد مرتقع	C+	2.99	180	احمد عياس مضطقي اهمد	مسئجد	20190063	190016	t
الهقاز	ممثال	A	جيد مرتفع	C+	2.61	180	احمد عيدالناصر محمد ابراهيم	مستجد	20190102	190020	1
الهكاز	ممثاز	A	چيد مرتفع	C+	2.85	180	احدد عصام عبدالحديد عبد العال	مستجد	20190217	190022	1
اجتاز	ممكال	Α	جيد جدا	В	3.08	180	احت فاتحى اسماعول رسلان	مستجد	20190248	190026	1
اجتاز	ممثاز مرتقع	A+	3/3	С	2.48	180	احمد محمد محمود محمد شقب	سكجد	20180258	180035	1
اجتاز	ممثلز	A	چود چدا	В	3.02	180	اسلام مصطفى شحات سيد	مستجد	20190475	190036	t
اجتاز	مملاز	Α	**	С	2.21	180	المنيد محمود عيدالطيم ايراهيم محمد	مستجد	20180142	180057	t
	ممقاز	Α	چيد جدا	B+	3.42	180	امتيه عبدالرهمن كمال على جودة	مستجد	20194168	190250	1
			مرتقع								
المِثَال	ممثاز مرتقع	A+	جيد جدا	B+	3.31	180	ايهاب سيد عبداللطيف خلف	مسكجد	20190123	190043	
اجتاز	ممثال مرتقع	A+	مرتقع چيد مرتقع	C+	2.84	180	À1 = 1 . 1		20100101		ī
اجتاز	ممثاز	A	جيد مرتقع	C+	2.71	180	يطرس ابراهيم يوسف قرح الله	مسئجد	20190195	190044	ļ
اجتاز	ممتاز	A	چيد مرتقع	C+	2.81	180	حسن ياسر ميلي عبدالله	مسكود	20191034	190214	ŀ
اجتاز	Jilaa	A	المه به	В	3.18	180	خالد عبدالدايم محمد سيد	مستجد	20190109	190057	ł
اجتاز	ممثاز مرتقع	A+	المحال	Α.	3.62	180	خائد على هاشم شامه	- April 100	20192564	190058	ļ
اجتاز	ممتاز	A	ويد مرتقع	C+	2.54	180	روماني عبدالملاك وهبه حنين هنا	مسكود	20190078	190061	ļ
	3544	A	جود مرتفع	C+	2.87	180	زیاد طه اهمد عواد	مستجد	20190292	190064	ŀ
المثاز	ممثار مرتقع	A+	معتلا	A	3.57	180	سما حسن مرتضى عذانى	مستجد	20190219	190070	Ļ
اجتاز	سناز	A	مصر چید مرتفع	C+			شوقى مسعود شوقى تصوف زخارى	degree	20190245	190076	ļ
اجتاز	ممتاز	A	ميد جدا	В	3.07	180	طه عبدالرهيم عثمان سليم	مسكجد	20190027	190080	Ļ
اهتاز	معتان	A	جيد مرتقع	C+	2.55	180	عبدالرحمن على حسين على	مسلجد	20190132	190090	L
-	ممثاز ملفقض	A-	4				عبدالرحمن قوزى ايراهيم محمد	ipius	20180278	180120	L
			چيد مرتقع	C+	2.77	180	عبدالله ثابت عجمي عوض	مستجد		190096	L
	چيد چدا مرتقع	B+	400	С	2.19	180	عيداند معمد هسن عيداند	مسكجد	20180016	180128	
	ممثار منخاض	A-	144 444	В	3.22	180	عبدات محمد طه ابوشعيشع	مستجد	20190072	190098	
اجتاز	ممكاز	Α .	جيد مرتقع	C+	2.83	180	عبر المد هنيذ سعيد	مستجد	20190239	190102	
اجتاز	ممقاز	А	-3-3-3	С	2-42	180	عمر طلعت احمد فمواد عبدالعظوم	مسكجد	20180150	180146	;





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تربيه عسكري	المشروع	تقدير	14.	40	المعدل التراكمي	عدد الساعات	اســم الطائب	لمالة	كود شؤون الطلاب	كود الطائب	
المثارّ	ممكاز منخفض	A-	چيد مرتفع	C+	2.96	180	عمر علاء يوسف عيدالله	مسلجد	20192313	190104	25
اجتاز	ممثاز	Α	چود مرتفع	C+	2.61	180	عمر فلمي سيد مجدوب	مستجد	20193081	190197	30
اهتاز	ممثال	А	449	С	2.32	180	عمر يحيى محمد المرسى العصلوجي	مسكجد	20181920	180154	3
اجتاز	ممثاز مرتقع	A+	44	С	2.13	180	فيصل مجدى محمد عليقي	مستجد	20180354	180162	32
اجتاز	ممثار	Α	جيد جدا	В	3.01	180	كريم صالح محمود على	مستجد	20190817	190114	33
اجثال	چيد جدا مرتقع	B+	44	С	2.31	180	كيرلس اسامه عيدالملاك وهيه	مستجد	20180175	180167	34
اجتاز	ممثاز مرتقع	A+	جيد مرتقع	C+	2.91	180	كورثس اكرم جرجس رياش	مستجد	20190176	190115	35
اجتال	ممكاز	Α	خټ جدا	В	3.22	180	كيرثس مصن ماهر خله	سئبد	20190137	190116	36
اجتاز	ممتاز مرتفع	A+	چيد مرتقع	C+	2.51	180	ماريو يونان فرحات فام	delines	20180049	180176	3
اجتاز	ممثلز متخفض	A-	چيد مرتقع	C+	2.64	180	مازن محمد قرنى رييع عيدالقادر	مسكجد	20190198	190121	38
31525	مدائل دالمقطي	Δ	c*v+ v1	CT	2.21	180	ساهر مستدد ساهر السيد رزق	mpteen	20190121	190123	33
اجتاز	جيد جدا	В	44	С	2.10	180	محمد احمد العوضى عطيه	مستجد	20180075	180181	40
اجتاز	ممثال متخفض	A-	**	ç	2.39	180	محمد احمد يوسف السيد لاشين	مسلجد	20190157	190128	41
اجتاز	ممثار منخفض	Α-	جيد مرتقع	C+	2.62	180	محمد اسامه هامد عبد الباقى	مستجد	20190304	190129	42
الهقاز	ممثاز	Α	49	C	2.43	180	محمد اشرف عكاشة طليه	مسكجد	20182598	180190	43
اجتاز	ممكاز	Α	449	С	2.37	180	محدد حسن محمد عيدالغني حسن	مسلجد	20180219	180197	44
اجتاز	ممثاز	Α	جيد جدا	B+	3.39	180	محد رثدى اسماعيل اسماعيل صالح	مستجد	20190241	190136	45
			مركفع								
اجتاز	ممثاز	Α	چيد مرتقع	C+	2.71	180	محمد سامح محمد عطيه همد	مسكجد	20193995	190243	40
اجتاز	ممثاز	Α	چيد مرتقع	C+	2-52	180	محمد سامح محمد محمدالقصوري	ستجد	20180161	180206	47
اجتاز	ممقاز	Α	جرد جدا	В	3.00	180	محمد شحاته مدئى محمد	delines	20190340	190138	48
اجتال	ممثال	Α	خاد خدا	В	3.03	180	محمد عود عبدالحمود محقوظ	مسكجد	20193571	190246	45
الجثال	ممثاز مرتقع	A+	40	С	2.12	180	محند محند محجوب	ستجد	20183793	180296	5(
اجتاز	ممتاز	Α	جيد مرتقع	C+	2.93	180	محمد مشهور عثمان محمد	delinas	20190023	190154	51
اجتاز	ممتاز	Α	چيد مرتقع	C+	2.62	180	محمود سامح يثيل مخلوف	مسكود	20192986	190199	52
اجداز	ممثاز ملخفض	Α-	ممثار	Α	3.67	180	محمود ياسين متصور اهمد	مسئجد	20180163	180229	53
اجتاز	معتاز	Α	جيد جدا	В	3.14	180	مصطفى محمد عبدالحق مصطفى حسن	مسئجد	20190079	190172	54
اجتاز	ممثاز	Α	جرد جدا	В	3.18	180	مصطفى محند مرزوق عبدالتميد	مستجد	20190279	190173	55
	ممثار متخفض	Α-	جيد جدا	В	3.07	180	مقه الله عمر چلال متولى	مسكود	20193241	190222	56





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تربيه عسكري	ر المشروع	تقدي	لغير	(a)	المعدل التراكمي	عدد الساعات	اسم الطالب	العالة	كود شؤون الطلاب	كود الطالب	
	ممثاز	Α	جيد مرتقع	C+	2.93	180	ملى سمير السيد الصادق شرف	مستجد	20190196	190176	5
اجتاز	ممثاز مرتقع	A+	چيد جدا	В	3.22	180	توراتين عبدالرجمن رمضان سعودي	مستجد	20190125	190182	51
	ممثاز متخفض	Α-	ممثاز	Α	3.55	180	هايدى سعيد صلاح الدين عبدالله	مسكجد	20190167	190184	5
	ممثاز	Α	جيد جدا	B+	3.35	180	هدی ٹیپل صبحی ملصور	مستجد	20190326	190185	6
			مرتفع				'				
	ممثار ملخقض	A-	جيد مرتقع	C+	2.95	180	هدير محمد سوف الدين عامر	مستجد	20193024	190210	6
	ممثار منخفض	Α-	جيد جدا	В	3.22	180	ياسمين ياسر طلعت ابراهيم	مستجد	20192989	190211	6
اجتاز	ممثال	Α	چيد جدا	В	3.11	180	يوسف حسن حسن السيد التورى	ستجد	20190068	190192	6
اجتاز	ممثاز	Α	44	С	2.32	180	يوسف عبدالشافى عبدالبديع يوسف	delina	20180221	180263	6

6. Employment of graduates:

Graduate Name	Company Name
Shawey Masood Shawey	Concord for Engineering and Contracting
Ebrahim ahmed Mohamed	Petroget Company
Ahmed essam abdelhamid	Alu-builders Egypt





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7. Academic standards

<u>a.</u> National Academic Reference Standards of Program:

According to the National Academic Reference Standard, the program in Mechanical Power Engineering must satisfy the following Competencies:

	5.1.	General Engineering NARS Competencies in 2018
	A.1	Identify, formulate, and solve complex engineering problems by applying engineering fundamentals, basic science and mathematics.
	A.2	Develop and conduct appropriate experimentation and/or simulation, analyze and interpret data, assess and evaluate findings, and use statistical analyses and objective engineering judgment to draw conclusions.
	A.3	Apply engineering design processes to produce cost-effective solutions that meet specified needs with consideration for global, cultural, social, economic, environmental, ethical and other aspects as appropriate to the discipline and within the principles and contexts of sustainable design and development.
Level A	A.4	Utilize contemporary technologies, codes of practice and standards, quality guidelines, health and safety requirements, environmental issues and risk management principles.
	A.5	Practice research techniques and methods of investigation as an inherent part of learning.
	A.6	Plan, supervise and monitor implementation of engineering projects, taking into consideration other trades requirements.
	A.7	Function efficiently as an individual and as a member of multi-disciplinary and multi- cultural teams.
	A.8	Communicate effectively – graphically, verbally and in writing – with a range of audiences using contemporary tools.
	A.9	Use creative, innovative and flexible thinking and acquire entrepreneurial and leadership skills to anticipate and respond to new situations.





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A 10	Acquire and apply new knowledge; and practice self, lifelong and other	1
A.10	Acquire and apply new knowledge; and practice self, lifelong and other learning strategies.	
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		5.2. Civil Engineering NARS
Level B	B.1	Select appropriate and sustainable technologies for construction of buildings, infrastructures and water structures; using either numerical techniques or physical measurements and/or testing by applying a full range of civil engineering concepts and techniques of: Structural Analysis and Mechanics, Properties and Strength of Materials, Surveying, Soil Mechanics and Fluid Mechanics.
(NARS)	B.2	Achieve an optimum design of Reinforced Concrete and Steel Structures, Foundations and Earth Retaining Structures, Roadways, Sanitary Works and Irrigation structures.
	B.3	Plan and manage construction processes; address construction defects, instability and quality issues; maintain safety measures in construction and materials; and assess environmental impacts of projects.
	B.4	Deal with biddings, contracts and financial issues including project insurance and guarantees.





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	5.	3. Construction & Building Competencies (NARS)
	C.1	Use diversity of analytical, design, construction engineering, construction techniques and methods to solve some project management problems and optimize project time, cost, and resources issues, and supervise construction sites and projects efficiently
Level C (ARC)	C.2	Acquire and improve personal skills, communication skills, leadership skills, lifelong learning, be able to work collaboratively in a multidisciplinary team, able to lead individual or group and supervise the work in construction sites or offices.
	C.3	Apply team approach and alternate solutions, and incorporating realistic constraints that include economic, environmental, ethical, health and safety, social, and political considerations in regards to project and public safety and sustainability issues.

b. External References (Benchmark) for Standards:

- (1) Higher Supreme Council for Education
- (2) Quality Assurance & Accreditation Project (Education Council for the Egyptian Universities and the Quality Assurance & Accreditation Project)

C. Last date of program NARS approval:

Institute council on 19/08/2023

8. Assessment Methods

Commentary (quoting evaluations from external evaluator and other stakeholders)

External Evaluator is being appointed.





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Assessment of Competencies:

Asses	ssment Method	Competencies
1. /	Assignments	General and Civil Engineering NARS Competencies, Construction and Building Engineering ARS Competences.
2. (Quizzes	General and Civil Engineering NARS Competencies, Construction and Building Engineering ARS Competences.
3. 1	Reports	General and Civil Engineering NARS Competencies, Construction and Building Engineering ARS Competences.
4.	Presentations	General and Civil Engineering NARS Competencies, Construction and Building Engineering ARS Competences.
	Laboratory experimental Exam	General and Civil Engineering NARS Competencies, Construction and Building Engineering ARS Competences.
6. (Oral Exam	General and Civil Engineering NARS Competencies, Construction and Building Engineering ARS Competences.
7. 1	Midterm Exam	General and Civil Engineering NARS Competencies, Construction and Building Engineering ARS Competences.
8. 1	Final Exam	General and Civil Engineering NARS Competencies, Construction and Building Engineering ARS Competences.



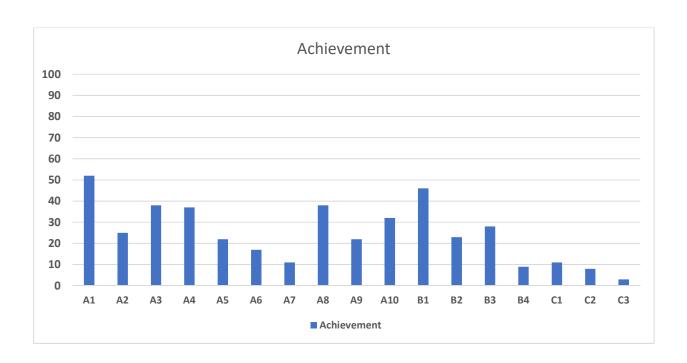


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9. Achievement of program Competencies:

Achievement of program competencies (as indicated below)

Competencies	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	B1	B2	В3	<u>B4</u>	<u>C1</u>	C2	C3
Achievement in Subjects (Number = 65)	34	16	25	24	14	11	7	25	14	21	30	15	18	6	7	5	2
Achievement in Subjects (%)	52	25	38	37	22	17	11	38	22	32	46	23	28	9	11	8	3







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10. Quality of teaching and learning opportunities

- Data show are installed in all lecture halls
- Lecture halls are well equipped.
- Computer labs are upgrading.
- Feedback from graduates.

11. Effectiveness of student support systems

- 61 cases in courses are above grade A for all courses
- 858 cases in courses are below grade D (Grade = F) and they still need more attention
- Regular meetings were provided between students and staff members to report the problems and consultations.
- The academic advisors are available to provide academic support to students. The office hours, e-mail and telephone numbers are communicated to the students.
- Program coordinators provide personal support to the students if needed.

12. Learning resources

a) No. of Institute members and their assistants and their ratio to students

- No. of Institute members (15) and their assistants (9)
- Total No. of students five levels (319)
- Ratio of Institute members to students (1:21)
- Ratio of assistants of the Institute members to students (1:36)

b) Matching of Institute members' specialization to programme needs

Some courses need the support of specialized members.





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c) Availability and adequacy of program handbook

 Books are available (hard copy) in library of the institute and in bookstore. Also, Books are available (soft copy) at Egyptian Knowledge Bank.

d) Adequacy of computer facilities

The available laboratories are adequate but need upgrade.

e) Adequacy of field/practical training resources

- Some courses are provided.
- Summer practical training was reported.

f) Adequacy of any other programme needs

- The need of an exhibition hall for students works and projects.
- The need of appropriate facilities (WC's and drinking water supplies).
- The need of internet coverage for students for research.
- Increasing the number of teaching assistants and supporting managerial staff

13. Quality management and enhancement

a) Availability of regular evaluation and revision system for the program

- This is the Fifth round for Evaluation and Revision (previously there were administrative & financial bylaw and starting from the academic year 2017/2018 there will be an updated administrative & financial bylaw) and still under review.
- Program description in course description of academic year 2023/2024 to be adapted with NARS 2018.

g) Effectiveness of the system

The staff members are cooperating effectively in the system





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- b) Effectiveness of Institute laws and regulation for progression
 - Fair.
- c) Effectiveness of programme external evaluation system:
 - i. External evaluators
 - Through questionnaires analysis is under progress to deduce conclusions and give recommendations. (get it from Quality Assurance Unit).
- ii. Independent Opinion on Quality of the Program after Considering Draft Report of the Self-Study Report SSR (Internal Evaluator/External Evaluator)
- iii. Other stakeholders
 - A survey was made of some construction companies and consulting firms. Results are being assembled and analized and conclusions drawn.
- d) Institute response to student and external Evaluations
 - Fair

14. Proposal of program development

- a) Courses, deletions and additions and modifications
- c) Requirements for the skill improvement of the staff and assistants
 - Workshop to train the staff and assistants for competencies evaluation.





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15. Progress of previous year's action plan

Action Identified	Person Responsible	Progress of action	Reasons for non- completion
Equipping the room of staff assistants with computers and air conditioning units	Program / Institute administration	completed	
Upgrade the libraries	Program / Institute administration	completed	
Provide the program with new labs. In this direction, a control lab is installed.	Program / Institute administration	Completed	
The need of regular seminars	Program staff and department administration	completed	
Maintenance and restoration of doors and windows of lecture halls and laboratories	Program staff and program administration	Not Yet	Financial matter
A plan to receive the course file (soft copy) regularly via drive and chick list for submission	Program Quality Unit	Completed	
Academic advising plan and forms to motivate students	Program Quality Unit	Completed	
One full time secretary for the program administrative tasks	Program / Institute administration	Completed	





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Paints for faculty halls	Program / Institute	Not Yet	Financial matter
	administration		

16. Action plan

Action required	Person responsible
Maintenance and restoration of doors and windows of lecture halls and laboratories.	Program / Institute administration
Paints for faculty halls	Program Administration
Internet access (wired / wireless) in all lecture halls	Program Administration
Students don't have a suitable and quite space to study or work between classes. This led to a time waste for student. Therefore, a place will be dedicated for this purpose.	Program / college administration

Head of Department: Dr. Mostafa Abd Elmohsen

Date 22-08-2024 Signature: