eastern
mediterranean
university

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Minutes of the Departmental Council Meeting held on 19 February, 2020 (19/20 – 4)

Present: I. Aybay (Chair), Y. Bitirim (Vice Chair), H. Altınçay, M. Güler, H. Kömürcügil, O. Ramadan, A. Acan, Z. Bayram, M. Bodur, A. Chefranov, D.Ç. Ertuğrul, G. Öz, M. Salamah, Ö. Toygar, Begüm Koru (Assistant Representative).

On Leave: E. Varoğlu, D. Arifler, C. Ergün, A. Ünveren.

The Computer Engineering Department Faculty met on February 19, 2020 at 14:30 in room CMPE-113 and discussed the following issues:

I. Chairman's Explanations

Prof. Dr. I. Aybay informed the Departmental Council about the following issues:

1) The Software Engineering MS with Thesis program has been approved unanimously by the Graduate Institute and the EMU Senate, and it will be under review by YÖDAK and YÖK. The program is expected to start in Fall 2020.
2) A Dual MS program in Computer Engineering agreement is signed between EMU and French institution ESTIA. The program will start in Fall 2020.
3) A Dual 3+2 (BS – EMU, MS – UNT) program discussions with University of North Texas (USA) is in progress.
4) Southern Medhodist University (USA) - EMU dual 4+1 (BS – EMU, MS – SMU) degree "Accelerated Pathways" program discussions is in progress. When a proposal is agreed upon, it will be brought to the Deaprtmental Council. The first proposal from SMU is in Attachment-1.

II. Student Issues

1) Hüseyin Akman (16002654) from Turkish Computer Engineering program requested to take 4 courses from Düzce University because of his health problems. The requested courses BLGM112, MATE152, BLGM223 and MATE322 have been approved unanimously.
2) Haşim Yılmaz (15002677)): Grade change from CMPE471 (Fall 2019/2020) : F to D- (for removing his On Probation status) has been approved by majority (12 accept, 1 reject (A. Chefranov), 1 abstain (H. Altınçay)).

3) Çağtürk Çağın (16450044)): Grade change from CMPE344 (Fall 2019/2020) : D to C (for removing his Unsatisfactory status) has been approved by majority (11 accept, 2 reject (H. Kömürcügil, Z. Bayram), 1 abstain (H. Altınçay)).
4) 16000068 Betül Algür: Grade change from CMPE223 (Fall 2019/2020) : C- to C (for removing her On-probation status) has been approved by majority (11 Accept).

III. ABET Evaluation Committee Report

ABET Evaluation Committee report (Attachment-2) has been presented and discussed. Dr. Bayram shall prepare a decision based on the discussions, to be approved in the next meeting.

Prof. Dr. Işık AYBAY
(Chair)

Asst. Prof. Dr. Yıltan BİTİRİM
(Vice Chair)

Prof. Dr. Hakan ALTINÇAY

Prof. Dr. Mariff GÜLER

Prof. Dr. Hasan KÖMÜRCÜGİL

Prof. Dr. Omar RAMADAN

Assoc. Prof. Dr. Adnan ACAN

Assoc. Prof. Dr. Zeki BAYRAM

Assoc. Prof. Dr. Mehmet BODUR

Assoc. Prof. Dr. Alexander CHEFRANOV

Assoc. Prof. Dr. Duygu Çelik ERTUĞRUL

Assoc. Prof .Dr. Gürcü ÖZ

Assoc. Prof. Dr. Muhammed SALAMAH

Assoc. Prof. Dr. Önsen TOYGAR

Attachment - 2

Software Engineering Undergraduate Program

Evaluation of the Alumni Survey Results for the 2018-2019 Semester

According to the results (based on 11 answers, so questionable statistical significance), items stated in Q1-Q5 were statisfactory (>3.0). Some interesting findings were (Excel file attached):

1- More than 75% of the alumni are not self-employed and more than 60% work in private sector.

2- More than 60% of the alumni got a job in less than 3 months.

3- More than 50% make <30,000 USD per year.

4- Only 25% completed a graduate program. Compared to our Computer Engineering program, fewer students pursued graduate studies.

Dogu Arifler

24.01.2020

Computer Engineering Undergraduate Program

Evaluation of the Alumni Survey Results for the 2018-2019 Semester

According to the results (based on 87 answers), items stated in Q1-Q5 were statisfactory (>3.0). Some interesting findings were (Excel file attached):

1- More than 80% of the alumni are not self-employed and more than 60% work in private sector.

2- More than 50% of the alumni got a jon in less than 3 months.

3- More than 50% make <30,000 USD per year.

4- Only 44% completed a graduate program. Compared to our Software Engineering program, more students pursued graduate studies.

Dogu Arifler

24.01.2020

ABET EVALUATION COMMITTEE REPORT

FOR EVALUATION OF 2018-2019

COMPUTER ENGINEERING PROGRAM EXIT SURVEYS

by Dr. M. Bodur, 17-01-2020

INTRODUCTION

This report is prepared to evaluate the exit survey data collected on 2018-19 academic year for the fulfillment of the ABET Student outcomes at EMU Computer Engineering Department.

EXIT SURVEY OF CMPE PROGRAM:

CMPE Exit Survey is made of 35 questions, which is organized in following sections

a) Student outcomes (questions 1-7),
b) Summer Practice (questions 8-13)
c) Graduation Projects (questions 14-20)
d) Faculty Staff and Personnel and Facilities (questions 21-29)
e) University Staff, Personnel and Facilities (questions 30- 36)

HEADLINES:

Our exit survey indicates that our fresh graduates consider them well prepared for the announced student outcomes.

According to the survey results department has no problem with the application of the summer practice related to the outcomes of CMPE400 course.

Exit survey indicates that graduation projects are very successful in providing the necessary skills which are necessary for our students to work in team projects for open ended design to solve engineering prohlems.

The weakest point of our departmental facilities labs. But exit survey also points that the weakness is only partially because of lab assistants. It may be partially because of outdated computers in the labs, or inconvenient extracurricular or project-related services.

In general, 2018-19 graduates are highly happy with the university related facilities. Most important of all, they had opportunity to get fruitful friendships over all university campus, which is very important for their future carrier opportunities.

Five of nine students filled positive comments on our department and university, three of nine are filled neutral comments such as "...", and only one comment criticized a few faculty staff as boring and unfair in grading.

PART-2 SUMMER PRACTICE

This part investigates the fulfillment of course outcomes for CMPE400 Summer Practice course. The questions are

8. The Summer Training practice increased my interest in Computer Engineering subjects.[Yaz Stajı uygulaması Bilgisayar Mühendisliği alanına olan ilgimi artırdı].
9. I recognized the role and the importance of Computer Engineers in a firm.[Stajda Bilgisayar Mühendislerinin bir firmadaki yerini ve önemini anladım]
10. I have learned the basic terminology used in work environment. [Çalışma ortamında kullanılan temel terimleri öğrendim].
11. I believe that the content/duration of the training studies are appropriate.[Bilgisayar Mühendisliği Stajının içerik ve süre açısından uygun olduğuna inanıyorum].
12. I have gained the ability to establish relationships between theory and practice.[Staj bana kuram ile uygulama arasında ilişkiler kurma yeteneği kazandırdı].
13. The training studies improved my oral and written communication skills.[Staj çalışmaları yazılı ve sözlü iletişim yeteneğimi geliştirdi].

Summer Practice	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE	TOTAL	WEIGHTED AVERAGE
8	11.11% 1	11.11% 1	11.11% 1	22.22% 2	44.44% 4	9	3.78
9	11.11% 1	0.00% 0	22.22% 2	33.33% 3	33.33% 3	9	3.78
10	11.11% 1	11.11% 1	11.11% 1	44.44% 4	22.22% 2	9	3.5
11	11.11% 1	0.00% 0	22.22% 2	55.55% 5	11.11% 1	9	3.56
12	11.11% 1	11.11% 1	22.22% 2	33.33% 3	22.22% 2	9	3.44
13	11.11% 1	0.00% 0	22.22% 2	33.33% 3	33.33% 3	9	3.78

CONCLUSION:

According to the survey results department has no problem with the application of the summer practice related to the outcomes of CMPE400 course.

PART-IV FACULTY STAFF, PERSONNEL AND FACILITIES

Following questions are answered in the Exit Survey of CMPE program on Faculty Staff, Personnel and Facilities (questions 21-29)

21. I am encouraged to continue to advanced research and graduate study on my field.[Çalıştığım alanda daha ileri araştırmalar ile lisansüstü çalışma yapmak üzere cesaretlendirildim].
22. I am satisfied with the academic advising given during the registration period and afterwards [Kayıtlar sırasında ve sonrasında sunulan danışmanlık hizmetlerinden memnun kaldım].
23. The instructors were knowledgeable and experienced in their fields. [Öğretim görevlileri konularında bilgili ve tecrübelilerdi].
24. The instructors were fair and unbiased in their treatment of individual students.[Öğretim görevlileri tüm öğrencilere karşı eşit ve önyargısızdı].
25. The research assistants were knowledgeable and experienced in their fields.[Araştırma görevlileri (asistanlar) konularında bilgili ve tecrübelilerdi].
26. The research assistants were fair and unbiased in their treatment of students.[Araştırma görevlileri (asistanlar) tüm öğrencilere karşı eşit ve önyargısızdı].
27. Faculty staff have encouraged and advised us for further graduate studies.[Öğretim elemanları bize lisansüstü çalışmalar hakkında bilgi vererek cesaretlendirdiler].
28. I was satisfied with the laboratory facilities.[Bölümün laboratuvar olanakları memnun ediciydi].
29. I was satisfied with the computer laboratory facilities.[Bölümün sunduğu bilgisayar olanakları memnun ediciydi].

Department Facilities	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE	TOTAL	WEIGHTED AVERAGE
21	11.11% 1	22.22% 2	11.11% 1	11.11% 1	44.44% 4	9	3.56
22	11.11% 1	22.22% 2	33.33% 3	11.11% 1	22.22% 2	9	3.11
23	11.11% 1	0.00% 0	44.44% 4	22.22% 2	22.22% 2	9	3.44
24	22.22% 2	0.00% 0	33.33% 3	33.33% 3	11.11% 1	9	3.11
25	11.11% 1	11.11% 1	44.44% 4	11.11% 1	22.22% 2	9	3.22
26	11.11% 1	11.11% 1	22.22% 2	33.33% 3	22.22% 2	9	3.44
27	11.11% 1	0.00% 0	55.55% 5	22.22% 2	11.11% 1	9	3.22
28	11.11% 1	22.22% 2	44.44% 4	11.11% 1	11.11% 1	9	2.89
29	12.50% 1	25.00% 2	37.50% 3	0.00% 0	25.00% 2	8	3.00

CONCLUSION:

The **weakest point** of our departmental facilities appears to be **the labs**. But it also points that the weakness is only partially because of lab assistants. It may be partially because of outdated computers in the labs, or inconvenient extra-curricular/project-related services.

Survey also indicates a **perception of unfair treatment**, and **partial dissatisfaction on registration advisorship.**

PART-VI COMMENTS AND OPINIONS

The last question of the survey allows the graduate to fill comments and opinions. The following comments are filled in 2018-19 survey.

1 1/8/2019 2:27 PM I enjoyed my general experience at this university.
2 1/8/2019 12:40 AM Few instructors of which i won't mention are nothing to talk about,the just make the life of students miserable.. they are intelligent but don't know how to lecture and most student sleep in class during their lecture hours because its so boring... and some instructors have stupid marking method which is unfair.. Let me stop here before i get arrested..
3 1/7/2019 3:29 PM Hyh
4 1/7/2019 3:06 PM Graduating from CMPE EMU have changed and shaped my knowledge a lot.
5 1/4/2019 8:35 PM It's good university
6 1/4/2019 7:28 PM Cok guzeldi burda okumak.
7 1/4/2019 7:28 PM ...
8 1/4/2019 6:32 PM None
9 1/4/2019 3:02 PM it was a wonderful experience and it was totally worth it

CONCLUSION

Almost all graduates filled somethings in comment field. In all nine comments we can categorize five of them (items 1,4,5,6,9) as fully positive, three of them (items 3,7,8) as neutral, and only one (item 2) negative.

Even the negative comment indicates a very important positive feature of our department. The negative attributes "boring" and "stupid and unfair marking" are spelled only for a few instructors, and all remaining faculty members are good in their practice.

Industrial Advisory Board Meeting Report

An Industrial Advisory Board Meeting was held on May 29, 2019 at the Computer Engineering Department, Room: 113. Three representatives from the industry have participated in the meeting, together with two academicians from the Computer Engineering Department. The industrial representatives were from three different companies or organizations. The focal point of the discussion was what kind of a computer engineers the industry is looking for, how further improvements can be done, and the state of the computer industry in the country.

Major issues adressed at the meeting were

- Possible curriculum modifications
- Revision of the prerequisite chains for both CMPE and CMSE programs
- Improvement of the summer practice activity
- Including topics, such as cloud computing, forensic computing and web services into the context of given courses

Holding further meetings in the future was decided. The minutes of the meeting were documented.

Employer Survey Report

Program educational objectives are satisfied for the CMPE graduates by a degree of satisfaction of 60% (>3/5.0). No data is avaiable on the employers willingness to employ EMU graduates in the future. At the moment there is no data for the CMSE graduates.

Software Engineering Undergraduate Program

Evaluation of the Student Outcome Results for the 2018-2019 Semester

Course Evaluations

Student Outcome (parts)	According to Survey	Max possible according to survey	% of success according to survey	According to direct measurement	Max possible according to direct measurement	% of success according to direct measurement	sum of (avg*no_in_class) over all courses	Data Points over all courses	Average for all courses
1	35	45	78%	237	339	70%	990	339	2.92
2	24	27	89%	46	70	66%	249	70	3.55
3	8	8	100%	12	20	60%	63	20	3.13
4	14	15	93%	28	40	70%	136	40	3.41
5	17	19	89%	34	50	68%	177	50	3.54
6	12	15	80%	28	40	70%	144	40	3.61
7	8	8	100%	77	102	75%	340	102	3.33

According to the results given in the table above, the weakest outcome (i.e. outcome 1) is related problem solving. This weakness exists in CMPE423 and CMPE231. CMPE231 is also weak in terms of outcome 7. Assigning more projects to solve real-life engineering task may help to improve these outcomes.

Hakan Altınçay

15.01.2020

ABET EVALUATION COMMITTEE REPORT

FOR EVALUATION OF 2018-2019

SOFTWARE ENGINEERING PROGRAM EXIT SURVEYS

by Dr. M. Bodur, 17-01-2020

INTRODUCTION

This report is prepared to evaluate the exit survey data collected on 2018-19 academic year for the fulfillment of the ABET Student outcomes at EMU, Software Engineering Program of Computer Engineering Department.

EXIT SURVEY OF CMSE PROGRAM:

CMSE Exit Survey is made of 35 questions, which is organized in following sections

a) Student outcomes (questions 1-7),
b) Summer Practice (questions 8-13)
c) Graduation Projects (questions 14-20)
d) Faculty Staff and Personnel and Facilities (questions 21-29)
e) University Staff, Personnel and Facilities (questions 30- 36)

HEADLINES:

Exit survey indicates that our fresh graduates consider them well prepared for the announced student outcomes.

According to the survey results department has no problem with the application of the summer practice related to the outcomes of CMSE400 Summer Practice course.

Exit survey indicates that graduation projects are very successful in providing the necessary skills which are necessary for our students to work in team projects for open ended design to solve engineering prohlems.

Our CMSE 2018-19 graduates are quite happy with the departmental staff and facilities.

In general, 2018-19 graduates are highly happy with the university related facilities.

Almost all graduates filled somethings in comment field. In all five comments we can categorize four of them (items 1,3,4,5) as fully positive, one of them (item 2) as neutral, and no negative at all.

PART-2 SUMMER PRACTICE

This part investigates the fulfillment of course outcomes for CMSE400 Summer Practice course. The questions are

8. The Summer Training practice increased my interest in Computer Engineering subjects.[Yaz Stajı uygulaması Bilgisayar Mühendisliği alanına olan ilgimi artırdı].
9. I recognized the role and the importance of Computer Engineers in a firm.[Stajda Bilgisayar Mühendislerinin bir firmadaki yerini ve önemini anladım]
10. I have learned the basic terminology used in work environment. [Çalışma ortamında kullanılan temel terimleri öğrendim].
11. I believe that the content/duration of the training studies are appropriate.[Bilgisayar Mühendisliği Stajının içerik ve süre açısından uygun olduğuna inanıyorum].
12. I have gained the ability to establish relationships between theory and practice.[Staj bana kuram ile uygulama arasında ilişkiler kurma yeteneği kazandırdı].
13. The training studies improved my oral and written communication skills.[Staj çalışmaları yazılı ve sözlü iletişim yeteneğimi geliştirdi].

Summer Practice	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE	TOTAL	WEIGHTED AVERAGE
8	0.00% 0	0.00% 0	25% 1	50% 2	25% 1	4	4.00
9	0.00% 0	0.00% 0	25% 1	25% 1	50% 2	4	4.25
10	0.00% 0	0.00% 0	25% 1	25% 1	50% 2	4	4.25
11	0.00% 0	0.00% 0	25% 1	50% 2	25% 1	4	4.00
12	0.00% 0	0.00% 0	25% 1	50% 2	25% 1	4	4.00
13	0.00% 0	0.00% 0	50% 2	50% 2	0.00% 0	4	3.50

CONCLUSION:

According to the survey results department has no problem with the application of the summer practice related to the outcomes of CMSE400 course.

PART-IV FACULTY STAFF, PERSONNEL AND FACILITIES

Following questions are answered in the Exit Survey of CMSE program on Faculty Staff, Personnel and Facilities (questions 21-29)

21. I am encouraged to continue to advanced research and graduate study on my field.[Çalıştığım alanda daha ileri araştırmalar ile lisansüstü çalışma yapmak üzere cesaretlendirildim].
22. I am satisfied with the academic advising given during the registration period and afterwards [Kayıtlar sırasında ve sonrasında sunulan danışmanlık hizmetlerinden memnun kaldım].
23. The instructors were knowledgeable and experienced in their fields. [Öğretim görevlileri konularında bilgili ve tecrübelilerdi].
24. The instructors were fair and unbiased in their treatment of individual students.[Öğretim görevlileri tüm öğrencilere karşı eşit ve önyargısızdı].
25. The research assistants were knowledgeable and experienced in their fields.[Araştırma görevlileri (asistanlar) konularında bilgili ve tecrübelilerdi].
26. The research assistants were fair and unbiased in their treatment of students.[Araştırma görevlileri (asistanlar) tüm öğrencilere karşı eşit ve önyargısızdı].
27. Faculty staff have encouraged and advised us for further graduate studies.[Öğretim elemanları bize lisansüstü çalışmalar hakkında bilgi vererek cesaretlendirdiler].
28. I was satisfied with the laboratory facilities.[Bölümün laboratuvar olanakları memnun ediciydi].
29. I was satisfied with the computer laboratory facilities.[Bölümün sunduğu bilgisayar olanakları memnun ediciydi].

Department Facilities	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE	TOTAL	WEIGHTED AVERAGE
21	0.00% 0	0.00% 0	50% 2	25% 1	25% 1	4	3.75
22	0.00% 0	0.00% 0	25% 1	50% 2	25% 1	4	4.00
23	0.00% 0	0.00% 0	50% 2	50% 2	0.00% 0	4	3.50
24	0.00% 0	0.00% 0	25% 1	75% 3	0.00% 0	4	3.75
25	0.00% 0	0.00% 0	50% 2	50% 2	0.00% 0	4	3.50
26	0.00% 0	0.00% 0	50% 2	50% 2	0.00% 0	4	3.50
27	0.00% 0	0.00% 0	75% 3	25% 1	0.00% 0	4	3.25
28	0.00% 0	0.00% 0	50% 2	50% 2	0.00% 0	4	3.50
29	0.00% 0	0.00% 0	50% 2	50% 2	0.00% 0	4	3.50

CONCLUSION:

Our CMSE 2018-19 graduates are quite happy with the departmental staff and facilities.

PART-VI COMMENTS AND OPINIONS

The last question of the survey allows the graduate to fill comments and opinions. The following comments are filled in 2018-19 survey.

1	1/8/2019 1:20 PM	It was fun
2	1/7/2019 7:19 PM	Neutral
3	1/4/2019 6:30 PM	The Faculty professors that taught me during my time in EMU are simply amazing, special thanks to Professors Adnan Acan, Isik Aybay and Zeki Bayram for which they have increased my knowledge so much, and made me the Software Engineer I am today
4	1/4/2019 1:04 PM	Teşekkürler
5	12/11/2018 2:36 PM	OK

CONCLUSION

Almost all graduates filled somethings in comment field. In all five comments we can categorize four of them (items 1,3,4,5) as fully positive, one of them (item 2) as neutral, and no negative at all.

Computer Engineering Undergraduate Program

Evaluation of the Student Outcome Results for the 2018-2019 Semester

Student Outcome (parts)	According to Survey	Max possible according to survey	% of success according to survey	According to direct measurement	Max possible according to direct measurement	% of success according to direct measurement	sum of (avg*no_in_class) over all courses	Data Points over all courses	Average for all courses
1	49	49	100%	364	562	65%	1418	562	2.52
2	14	16	88%	154	205	75%	554	205	2.70
3	2	2	100%	39	40	98%	129	40	3.22
4	3	3	100%	59	60	98%	207	60	3.45
5	3	3	100%	55	60	92%	198	60	3.30
6	4	4	100%	77	83	93%	284	83	3.42
7	2	2	100%	113	139	81%	402	139	2.89

According to the results given in the table above, the weakest outcomes are related to the main components of real-life problem solving, namely aplication of knowledge (either existing or new) to solve engineering problems. These weaknesses exist in all evaluated courses (CMPE400, CMPE226, CMPE354, and CMPE412) other than CMPE406. As mentioned above, assigning more projects to solve real-life engineering task may help to improve these outcomes. Regarding summer training, the students should be enforced to do their summer training in larger companies in which engineering tasks are addressed.

Hakan Altınçay

15.01.2020

Question	5	4	3	2	1	Avg	
1	43.02	32.56	19.77	0	4.65	4.093	
	25.61	46.34	20.73	2.44	4.88	3.8536	
2	61.63	33.72	2.33	0	2.33	4.5235	
	42.68	40.24	13.41	1.22	2.44	4.1947	
3	60.47	26.74	10.47	0	2.33	4.4305	All items were satisfactory
	38.27	46.91	12.35	0	2.47	4.1851	
4	77.91	17.44	2.33	1.16	1.16	4.6978	
	41.46	37.8	17.07	2.44	1.22	4.1581	
5	61.63	24.42	10.47	2.33	1.16	4.4306	
	47.56	35.37	12.2	3.66	1.22	4.2442	

6 No PEO suggestion

7

8

9 Roughly, half of the alumni completed additional training after graduation

10

11 More than 80% of the alumni are not self employed

12 More than 50% of the alumni got a job in less than 3 months

13

14

15

16 More than 60% of the alumni work in private sector

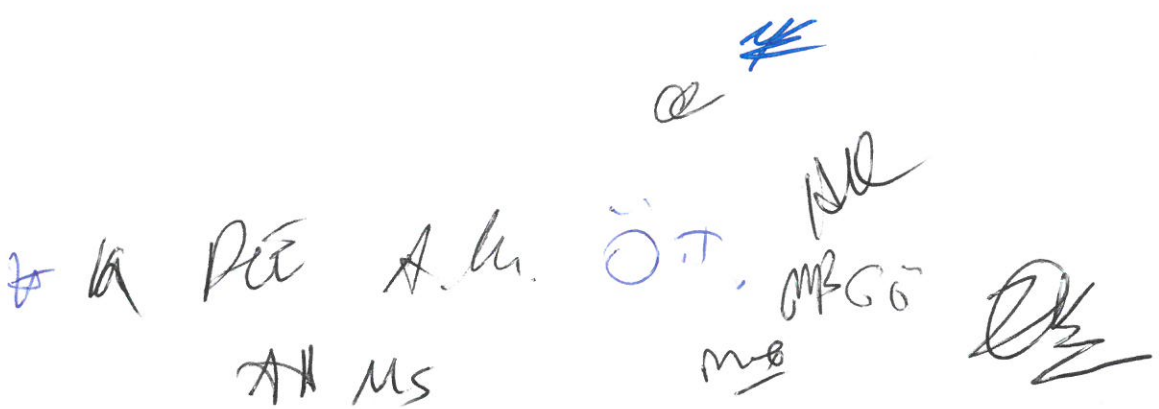
17

18 More than 50% make < 30,000 USD per year

19

20 Only 13% are currently enrolled in a graduate program

21 44% have completed a graduate program



Question	5	4	3	2	1	Avg	
1	90.91	0	9.09	0	0	4.8182	
	27.27	45.45	27.27	0	0	3.9996	
2	63.64	27.27	9.09	0	0	4.5455	
	54.55	18.18	18.18	9.09	0	4.1819	
3	81.82	18.18	0	0	0	4.8182	All items were satisfactory
	72.73	27.27	0	0	0	4.7273	
4	81.82	9.09	9.09	0	0	4.7273	
	36.36	8.18	36.36	9.09	0	3.4178	
5	54.55	36.36	9.09	0	0	4.4546	
	45.45	36.36	18.18	0	0	4.2723	

6 No PEO suggestion

7

8

9 Roughly, half of the alumni completed additional training after graduation

10

11 More than 75% of the alumni are not self employed

12 More than 60% of the alumni got a job in less than 3 months

13

14

15

16 More than 60% of the alumni work in private sector

17

18 More than 50% make < 30,000 USD per year

19

20 Only 11% are currently enrolled in a graduate program

21 25% have completed a graduate program

Question	5	4	3	2	1	Avg	
1	43.02	32.56	19.77	0	4.65	4.093	
	25.61	46.34	20.73	2.44	4.88	3.8536	
2	61.63	33.72	2.33	0	2.33	4.5235	
	42.68	40.24	13.41	1.22	2.44	4.1947	
3	60.47	26.74	10.47	0	2.33	4.4305	All items were satisfactory
	38.27	46.91	12.35	0	2.47	4.1851	
4	77.91	17.44	2.33	1.16	1.16	4.6978	
	41.46	37.8	17.07	2.44	1.22	4.1581	
5	61.63	24.42	10.47	2.33	1.16	4.4306	
	47.56	35.37	12.2	3.66	1.22	4.2442	

6 No PEO suggestion

7

8

9 Roughly, half of the alumni completed additional training after graduation

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11 More than 80% of the alumni are not self employed

12 More than 50% of the alumni got a job in less than 3 months

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16 More than 60% of the alumni work in private sector

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18 More than 50% make < 30,000 USD per year

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20 Only 13% are currently enrolled in a graduate program

21 44% have completed a graduate program