

# EMU - CMPE Department, CMPE Program Exit Survey Report.

January 2022

Prepared by M. Bodur on behalf of ABET Evaluation Committee

## Introduction

CMPE Program Exit Survey is made of 36 questions which are asked to graduates at their graduation process. These questions are organized in five sections: A) Abilities section; B) Internship Section; C) Graduation Project Section; D) Academic Facilities Section; E) University Facilities Section; F) Comments on University and Department Section.

## Methodology

The survey is evaluated based on the number of new-graduates that answered the survey questions in five groups:

A) Strongly Agree; a) Agree; N) Neutral; d) Disagree; and D) Strongly disagree.

The number of supporters of each group is shown in a simple three colored graphical manner as well to improve perception at a glance. The colors indicate:

**Green** : Aa: Strongly Agree + Agree;  
**Yellow**: N: Neutral  
**Cyan** : dD: Disagree+Strongly Disagree

## Results and Remarks

**Abilities** section indicated that

**Q5 I have gained an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.** [Mühendislik koşullarında etik ve profesyonel sorumlulukları tanıma ve mühendislik çözümlerinin küresel, ekonomik, çevresel ve toplumsal bağlamlardaki etkilerini dikkate alması gereken bilinçli kararlar verebilme becerisine sahip oldum].

AAAaaaNNDD 60%

**Internship** related section pointed that

**11-** our students have problems with the **duration of the Internship.**

AAAANNDD 50%

**Graduation project** section indicates that the recent changes of the graduation project policy resulted in a successful practice of design projects.

**Academic Facilities** Section has shown four major weaknesses of the program.

**Q22 I am satisfied with the academic advising given during the registration period and afterwards.** [Kayıtlar sırasında ve sonrasında sunulan danışmanlık hizmetlerinden memnun kaldım].

AAaNNND 38%

**Q25 The research assistants were knowledgeable and experienced in their fields.**

[Araştırma görevlileri (asistanlar) konularında bilgili ve tecrübelilerdi].

AaaNNdDD 38%

|   |     |
|---|-----|
| <b>Q26 The research assistants were fair and unbiased in their treatment of students.</b><br>[Araştırma görevlileri (asistanlar) tüm öğrencilere karşı eşit ve önyargısızdı].       | 50% |
| <b>Q27 Faculty staff have encouraged and advised us for further graduate studies.</b><br>[Öğretim elemanları bize lisansüstü çalışmalar hakkında bilgi vererek cesaretlendirdiler]. | 38% |
| <b>Q28 I was satisfied with the laboratory facilities.</b> [Bölümün laboratuvar olanakları memnun ediciydi].  | 25% |
| <b>Q29 I was satisfied with the computer laboratory facilities.</b> [Bölümün sunduğu bilgisayar olanakları memnun ediciydi].  | 25% |

**University Facilities** Section has three major weaknesses in the eyes of our students:

|  |     |
|--|-----|
| <b>Q31 I was satisfied with the services of the university's health center.</b> [Üniversitenin sağlık merkezinde sunulan hizmetten memnun kaldım]. | 50% |
| <b>Q34 I was satisfied with the university's accommodation facilities.</b> [Üniversitedeki konaklama (yurt) olanaklarından memnundum].             | 38% |

**Comments Section** indicated unanimously the program and the university is a good one. But there are some comments warning on

- i- computers (lab equipments) are out of date, almost useless.
- ii- labs and lab assistants are insufficient, inexperienced and incompetent.
- iii- academic staff as well shall have more resource to upgrade themselves, courses, and labs.

## Conclusion:

Improving academic advice is necessary especially to explain importance of the internship and further graduate studies.

The negative feedback returned by graduates shall be used as a pressure to university administration for extra budget to improve the Labs, as well as the quality and number of the assistants.

University administration shall be aware of there is no chance of creating a first class program with third class resources, and the students easily realize the difference of poor and improved lab equipments.

Finally, discussing the weakness of the lab equipments and lab assistant may provide possible solutions and new approaches to this cronic problem of the department.

## Details of Evaluation:

### A- Abilities section (Program Outcomes)

**Q1 I have gained an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.**

[Mühendislik, fen ve matematik ilkelerini uygulayarak karmaşık mühendislik problemlerini tanımlamak, formüle etmek ve çözmek becerisini kazandım].

AAAaaaNDD 60%

**Q2 I have gained an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.**

[Kamu sağlığı, güvenlik ve refahın yanı sıra küresel, kültürel, sosyal, çevresel ve ekonomik faktörleri göz önünde bulundurarak belirlenen gereksinimleri karşılayan çözümler üretmek için mühendislik tasarımı uygulamak becerisini kazandım].

AAAAaaaNND 70%

**Q3 I have gained an ability to communicate effectively with a range of audiences.** [Bir dizi kitle ile etkili bir şekilde iletişim kurmak becerisini kazandım].

AAAAaaaNDD 70%

**Q4 I have gained an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.**

[Mühendislik koşullarında etik ve profesyonel sorumlulukları tanımak ve mühendislik çözümlerinin küresel, ekonomik, çevresel ve toplumsal bağlamlardaki etkisini göz önünde bulundurmak zorunda olan bilinçli kararlar vermek becerisini kazandım].

AAAAAaaaDD 80%

**Q5 I have gained an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.** [Mühendislik koşullarında etik ve profesyonel sorumlulukları tanıma ve mühendislik çözümlerinin küresel, ekonomik, çevresel ve toplumsal bağlamlardaki etkilerini dikkate alması gereken bilinçli kararlar verebilme becerisine sahip oldum].

AAAaaaNNDD 60%

**Q6 I have gained an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.**

[Uygun deneyleri geliştirme, yürütme, verileri analiz etme ve yorumlama ve sonuç çıkarmak için mühendislik kararlarını kullanma becerisini kazandım].

AAAAAaaaND 80%

**Q7 I have gained an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.** [Uygun öğrenme stratejileri kullanarak, gerektiğinde yeni bilgi edinme ve uygulama becerisini kazandım].

AAAAAaaaNDD 70%

## B - Internship Section

**Q8 The Summer Training practice increased my interest in Software Engineering subjects.** [Yaz Stajı uygulaması Yazılım Mühendisliği alanına olan ilgimi artırdı].

AAAAaaaD 88%

**Q9 I recognized the role and the importance of Software Engineers in a firm.** [Stajda Yazılım Mühendislerinin bir firmadaki yerini ve önemini anladım].

AAAAaaaD 88%

**Q10 I have learned the basic terminology used in work environment.** [Çalışma ortamında kullanılan temel terimleri öğrendim].

AAAAaaaD 88%

- Q11 I believe that the content/duration of the training studies are appropriate.** [Yazılım Mühendisliği Stajının içerik ve süre açısından uygun olduğuna inanıyorum].  
 AAAANNDD 50%
- Q12 I have gained the ability to establish relationships between theory and practice.** [Staj bana kuram ile uygulama arasında ilişkiler kurma yeteneği kazandırdı].  
 AAAAAaND 75%
- Q13 The training studies improved my oral and written communication skills.** [Staj çalışmaları yazılı ve sözlü iletişim yeteneğimi geliştirdi].  
 AAAAAaD 88%

### C- Graduation Project Section

- Q14 The graduation project gave me a deeper insight and increased my interest in Software Engineering subjects.** [Bitirme projesi Yazılım Mühendisliği alanındaki bilgilerime derinlik kazandırdı ve ilgimi artırdı].  
 AAAAAaND 75%
- Q15 I recognized the importance of team work.** [Takım çalışmasının önemini anladım].  
 AAAAAANN 63%
- Q16 I have learned research techniques.** [Araştırma (bilgiye ulaşma) tekniklerini öğrendim]  
 AAAAAaD 88%
- Q17 I have understood that engineering design is made up of several stages.** [Mühendislik tasarımlarının çeşitli aşamalardan oluştuğunu kavradım].  
 AAAAAaND 88%
- Q18 I have learned that engineering design requires economic analysis.** [Mühendislik tasarımının ekonomik analizler (çözümleme) gerektirdiğini öğrendim].  
 AAAAAaND 75%
- Q19 The project studies improved my oral and written communication skills.** [Proje çalışmaları yazılı ve sözlü iletişim yeteneğimi geliştirdi].  
 AAAAAaND 75%
- Q20 I have gained the ability to establish relationships between theory and practice.** [Teori ile uygulama arasında ilişki kurma yeteneği kazandım].  
 AAAAAaND 75%
- Q21 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].  
 AAAAAaD 88%

### D- Academic Section

- Q22 I am satisfied with the academic advising given during the registration period and afterwards.** [Kayıtlar sırasında ve sonrasında sunulan danışmanlık hizmetlerinden memnun kaldım].  
 AAaNNND 38%
- Q23 The instructors were knowledgeable and experienced in their fields.** [Öğretim görevlileri konularında bilgili ve tecrübelilerdi].  
 AAAAAaND 75%
- Q24 The instructors were fair and unbiased in their treatment of individual students.** [Öğretim görevlileri tüm öğrencilere karşı eşit ve önyargısızdı].

|  |                 |     |
|--|-----------------|-----|
| <b>Q25 The research assistants were knowledgeable and experienced in their fields.</b><br>[Araştırma görevlileri (asistanlar) konularında bilgili ve tecrübelilerdi].            | <b>AAAAaNND</b> | 63% |
| <b>Q26 The research assistants were fair and unbiased in their treatment of students.</b><br>[Araştırma görevlileri (asistanlar) tüm öğrencilere karşı eşit ve önyargısızdı].    | <b>AaaNNdDD</b> | 38% |
| <b>Q27 Faculty staff have encouraged and advised us for further graduate studies.</b> [Öğretim elemanları bize lisansüstü çalışmalar hakkında bilgi vererek cesaretlendirdiler]. | <b>AaaaNNNd</b> | 50% |
| <b>Q28 I was satisfied with the laboratory facilities.</b> [Bölümün laboratuvar olanakları memnun ediciydi].   | <b>aaaNNNND</b> | 38% |
| <b>Q29 I was satisfied with the computer laboratory facilities.</b> [Bölümün sunduğu bilgisayar olanakları memnun ediciydi].   | <b>AaNNNdDD</b> | 25% |
|  | <b>aaNdddDD</b> | 25% |

## E- University Facilities

|  |                 |     |
|--|-----------------|-----|
| <b>Q30 I was satisfied with the professional and scientific seminars, I have attended at the university.</b> [Üniversitede izlediğim mesleki ve bilimsel seminerlerden memnun kaldım]. | <b>AaaaaNdd</b> | 63% |
| <b>Q31 I was satisfied with the services of the university's health center.</b> [Üniversitenin sağlık merkezinde sunulan hizmetten memnun kaldım].                                     | <b>AAAaNNdD</b> | 50% |
| <b>Q32 I was satisfied with Library's services.</b> [Üniversite kütüphanesindeki servislerden memnun kaldım].  | <b>AAAAaNDD</b> | 63% |
| <b>Q33 I was satisfied with social, sports and cultural activities at the university.</b><br>[Üniversitedeki sosyal, sportif ve kültürel aktivitelerden memnundum].                    | <b>AAAAaNdd</b> | 63% |
| <b>Q34 I was satisfied with the university's accommodation facilities.</b> [Üniversitedeki konaklama (yurt) olanaklarından memnundum].   | <b>AAaNNNdD</b> | 38% |
| <b>Q35 I have got good friends among fellow students.</b> [Dönemimdeki öğrencilerden bazılarıyla samimi arkadaşlıklar kurdum].   | <b>AAAAAaN</b>  | 88% |

## E- Comments on University and Department Section

**Q36 Please write your comments/opinions in the space given below:** [Lütfen yorumlarınızı/düşüncelerinizi aşağıdaki alana yazınız.]

\* **it was a good experience.**i learned so many things.

\* **It's good**

\* **I have dealt with good and bad times at this university but it's not a negative take. Good times wouldn't have occurred without going through bad times.**

\* All of the labs which using by undergraduate students really really old and slow machines. In my opinion, our department must have the latest technological computers in labs. On the other hand, I believe our department gives us chance to choose our path while we are studying. I wish I choose my course while studying because most of the subjects far from my interest. Additionally, some of the assistants have no background information from his/her subjects, the department must select our assistants more carefully.

\* There is a lot that can be improved. Admitting that should be the first step. Hiring more assistants that can fully give themselves to the course rather than blaming their lack of knowledge on a busy schedule, semester after semester, is not acceptable. Moreover, all courses should be available during spring and fall semesters. If that means hiring more instructors then so be it. Curriculum's must be updated and instructors must be required to do extra training and/or attend technical/theoretical workshops/lectures. The field of Computer Engineering is constantly evolving and focusing on archaic curriculums is counter productive. Hopefully this does not fall on deaf ears for the benefit of current/future students and for the university's reputation internationally.

\* The faculty need to seriously upgrade their computer facilities, especially the computer engineering department, most of their computers are very old almost useless.