

## Asst. Prof. İlyas Eminođlu

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, The University Of Sheffield, England 1996 - 2003

Undergraduate, Karadeniz Technical University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliđi Pr., Turkey 1987 - 1991

### Dissertations

Doctorate, Computational Intelligence Methods: Generic Interpretations, Optimization and Application, The University Of Sheffield, 2003

### Research Areas

Control and System Engineering, Rehabilitation

### Academic Titles / Tasks

Ondokuz Mayıs University, Mühendislik Fakültesi, 2004 - Continues

### Courses

PID Denetleyici Tasarımı ve Uygulamaları, Postgraduate, 2022 - 2023, 2021 - 2022

Algılayıcılar ve Dönüştürücüler, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Örüntü Tanıma, Doctorate, 2022 - 2023, 2018 - 2019, 2017 - 2018

Otomatik Kontrol, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Endüstriyel Otomasyon ve Uygulamaları, Undergraduate, 2021 - 2022, 2020 - 2021

Mühendislikte Yapay Zeka Uygulamaları, Doctorate, 2021 - 2022

Mühendislikte Yapay Us Kavramı, Doctorate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2014 - 2015, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007

Automatic Control Systems, Undergraduate, 2020 - 2021, 2018 - 2019

Sayısal Denetim Dizgeleri, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2014 - 2015, 2013 - 2014,

2012 - 2013

İnsansız Araçlar ve Uygulamaları, Undergraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Dağılık Kontrol Sistemleri, Undergraduate, 2020 - 2021

Genetik Algoritmalar, Doctorate, 2020 - 2021, 2017 - 2018, 2016 - 2017

Bulanık Mantık Dizgeleri, Doctorate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007

Digital Control Systems, Undergraduate, 2018 - 2019

Sayısal Kontrol Sistemleri, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Autonom Vehicles and Applications, Undergraduate, 2018 - 2019

Professional English, Undergraduate, 2017 - 2018

Kontrol Sistemlerine Giriş, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Mesleki İngilizce, Undergraduate, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Introduction to Control Systems, Undergraduate, 2017 - 2018

İş Hayatı İçin İngilizce, Undergraduate, 2016 - 2017, 2014 - 2015, 2013 - 2014, 2012 - 2013

Sayısal İşaret İşleme, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Optimal Kontrol Kuramı, Postgraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Comparison of myo-electrical control methods: From muscle energy consumption to mechanical speed output**  
Celik M. S., Tepe C., Eminoglu İ.  
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.84, 2023 (SCI-Expanded)
- II. **Hybrid Power Systems in Multi-Rotor UAVs: A Scientific Research and Industrial Production Perspective**  
Saif E., Eminoğlu İ.  
IEEE ACCESS, vol.11, pp.438-458, 2023 (SCI-Expanded)
- III. **Conveyor belt experiment setup for programmable logic controller education**  
Tepe C., Aslan A. S., Eminoğlu İ.  
INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING EDUCATION, 2020 (SCI-Expanded)
- IV. **Power-law fitness scaling on multi-objective evolutionary algorithms: interpretations of experimental results**  
ERGÜL E. U., Eminoğlu İ.  
SOFT COMPUTING, vol.24, no.5, pp.3893-3907, 2020 (SCI-Expanded)
- V. **Classification of neuromuscular diseases with artificial intelligence methods**  
Kucuk H., Eminoğlu İ., Balci K.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.4, pp.1725-1741, 2019 (SCI-Expanded)
- VI. **DOPGA: a new fitness assignment scheme for multi-objective evolutionary algorithms**  
ERGÜL E. U., Eminoğlu İ.  
INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE, vol.45, no.3, pp.407-426, 2014 (SCI-Expanded)
- VII. **Reviewing and designing pre-processing units for RBF networks: initial structure identification and coarse-tuning of free parameters**  
KAYHAN G., ÖZDEMİR A. E., Eminoğlu İ.  
NEURAL COMPUTING & APPLICATIONS, vol.22, no.7-8, pp.1655-1666, 2013 (SCI-Expanded)
- VIII. **The effects of the number of rules on the output of a fuzzy logic controller employed to a PM d.c. motor**

Eminođlu İ., ALTAŞ İ. H.

Computers and Electrical Engineering, vol.24, no.3-4, pp.245-261, 1998 (SCI-Expanded)

IX. **A method to form fuzzy logic control rules for a PMDC motor drive system**

Eminoglu İ., Altas I.

ELECTRIC POWER SYSTEMS RESEARCH, vol.39, no.2, pp.81-87, 1996 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Dört Eksen Adım Motor Konum Denetimli Üretim Süreci Tasarımı: Deney Seti Donanımı, Yazılımı ve Uygulaması**  
KESKİN B., EMİNOĞLU İ.  
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.23, no.2, pp.380-394, 2023 (Peer-Reviewed Journal)
- II. **Mechanical Gyroscope-Based Roll Motion Reduction of Marine Vehicles: An Educational Setup**  
CİNAL Ş., EMİNOĞLU İ.  
Journal of Naval Sciences and Engineering, vol.18, pp.179-204, 2022 (Peer-Reviewed Journal)
- III. **Modelling of quad-rotor dynamics and Hardware-in-the-Loop simulation**  
Saif E., Eminođlu İ.  
JOURNAL OF ENGINEERING-JOE, vol.2022, no.10, pp.937-950, 2022 (ESCI)
- IV. **Hardware Design of Low Cost Myoelectric Controlled Prosthetic Hand For Engineering Laboratory**  
ÇELİK M. S., Tepe C., EMİNOĞLU İ.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.2, pp.715-725, 2022 (Peer-Reviewed Journal)
- V. **Myo Bileklik İle Gerçek Zamanlı Protez Kol Kontrolü**  
TEPE C., ERDİM M., EMİNOĞLU İ.  
Avrupa Bilim ve Teknoloji Dergisi, pp.184-193, 2020 (Peer-Reviewed Journal)
- VI. **Experimental Setup For AC Motor Speed Control By Using PLC**  
DEMİR M. C., TEPE C., EMİNOĞLU İ.  
JOURNAL OF SCIENTIFIC PERSPECTIVES, vol.3, no.3, pp.177-188, 2019 (Peer-Reviewed Journal)
- VII. **Modifications of Fitness Assignment Parts of Some Multi Objective Evolutionary Algorithms**  
ERGÜL E. U., EMİNOĞLU İ.  
Journal of Engineering and Fundamentals, vol.1, no.1, pp.23-29, 2014 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Optimally Tuned PI Controller Design for V/f Control of Induction Motor**  
Keskin B., Eminođlu İ.  
4th International Congress on Human-Computer Interaction, Optimization and Robotic Applications, HORA 2022, Ankara, Turkey, 9 - 11 June 2022
- II. **Four-Axis Stepper Motor Training Set: STM32 Microcontroller, Algorithm and Teaching Considerations**  
Keskin B., Çelik M. S., Eminođlu İ.  
2022 International Conference on Artificial Intelligence of Things, ICAIoT 2022, İstanbul, Turkey, 29 - 30 December 2022
- III. **Myo Bileklik İle Gerçek Zamanlı Protez Kol Kontrolü**  
TEPE C., ERDİM M., EMİNOĞLU İ.  
2nd International Congress on Human-Computer Interaction, Optimization and Robotic Applications (2020 HORA), Turkey, 26 June 2020
- IV. **LİSANS ENDÜSTRİYEL KONTROL LABORATUVARI DENEY DÜZENEGİ: BÖLÜM 2 PLC İLE SICAKLIK DENETİMİ**

TEPE C., Şavaştær E. F., EMİNOĞLU İ.

4th International Energy and Engineering Congress, Gaziantep, Turkey, 24 - 25 October 2019, pp.164-174

V. **LİSANS ENDÜSTRİYEL KONTROL LABORATUVARI için DENEY DÜZENEĞİ TASARIMI: BÖLÜM 1 PLC ile AKIŞ DENETİMİ**

TEPE C., ÇALIŞKAN O. C., EMİNOĞLU İ.

4th International Energy and Engineering Congress, Gaziantep, Turkey, 24 - 25 October 2019, pp.176-187

VI. **LİSANS ENDÜSTRİYEL KONTROL LABORATUVARI DENEY DÜZENEĞİ: BÖLÜM 3 PLC İLE SIVI SEVİYE DENETİMİ**

TEPE C., ÇELİK M. S., ÖZÇELİK M., EMİNOĞLU İ.

4th International Energy and Engineering Congress, Gaziantep, Turkey, 24 - 25 October 2019, pp.1309-1324

VII. **Tek Tank Sıvı Seviye Denetimi İçin Deney Düzeneği Tasarımı**

ÇELİK M. S., CİNAL Ş., TEPE C., EMİNOĞLU İ.

OTOMATİK KONTROL TÜRK MİLLİ KOMİTESİ ULUSAL TOPLANTISI 2018, Kayseri, Turkey, 12 - 14 September 2018, pp.248-251

VIII. **Kontrol Mühendisliği Temel Eğitimi İçin Akış Denetim DeneyDüzeneği Tasarımı**

ÇELİK M. S., CİNAL Ş., TEPE C., EMİNOĞLU İ.

OTOMATİK KONTROL TÜRK MİLLİ KOMİTESİ ULUSAL TOPLANTISI 2018, Kayseri, Turkey, 12 - 14 September 2018, pp.226-230

IX. **Fan Kanat Denetimi Deney Düzeneği**

TEPE C., EMİNOĞLU İ.

OTOMATİK KONTROL TÜRK MİLLİ KOMİTESİ ULUSAL TOPLANTISI 2018, Kayseri, Turkey, 12 - 14 September 2018

X. **MARINE BOAT ROLL DAMPING CONTROL WITH MECHANICAL GYROSCOPE: AN EDUCATION SET-UP**

Cinal S., Eminoğlu İ.

19th International Conference series on Climbing and Walking Robots and the Support Technologies for Mobile Machines (CLAWAR), London, Canada, 12 - 14 September 2016, pp.733-738

XI. **FUZZY LOGIC BASED PATTERN RECOGNITION FOR MULTIFUNCTIONAL UPPER LIMB PROSTHESES**

Çelik M. S., Eminoğlu İ.

19th International Conference series on Climbing and Walking Robots and the Support Technologies for Mobile Machines (CLAWAR), London, Canada, 12 - 14 September 2016, pp.588-595

XII. **Çok İşlevli Protez El Deney Düzeneği Tasarımı Multifunctional Hand Prosthesis Setup Design**

ÇELİK M. S., TEPE C., BAŞ H., EMİNOĞLU İ.

TIP TEKNO'16 TIP TEKNOLOJİLERİ KONGRESİ, 27 - 29 October 2016

XIII. **Çok işlevli Protez El Denetimi İçin EMG İşaretinin Bulanık Mantık İle Sınıflandırılması**

ÇELİK M. S., EMİNOĞLU İ.

TIPTEKNO'16, 27 - 29 October 2016

XIV. **Nöromüsküler Hastalıkların Tehşisinde SVM K EYK ve DA Algoritma Tabanlı Sınıflandırma Bölüm II**

USTA H., EMİNOĞLU İ.

TIPTEKNO'16, 27 - 29 October 2016

XV. **Protez El Simülatörü Tasarımı**

ÇELİK M. S., TEPE C., CİNAL Ş., Şahin İ., EMİNOĞLU İ.

TIPTEKNO'16, 27 - 29 October 2016

XVI. **Nöromüsküler Hastalıkların Tehşisinde SVM K EYK ve DA Algoritma Tabanlı Sınıflandırma Bölüm I**

USTA H., EMİNOĞLU İ.

TIPTEKNO'16, 27 - 29 October 2016

XVII. **Çok İşlevli Protez El Denetimi İçin Emg İşaretininBulanık Mantık İle Sınıflandırılması**

ÇELİK M. S., EMİNOĞLU İ.

TIP TEKNOLOJİLERİ KONGRESİ 2016, Antalya, Turkey, 27 - 29 October 2016, pp.354-357

XVIII. **Çok İşlevli Protez El Deney Düzeneği Tasarımı**

ÇELİK M. S., TEPE C., BAŞ H., EMİNOĞLU İ.

TIP TEKNOLOJİLERİ KONGRESİ 2016, Antalya, Turkey, 27 - 29 October 2016, pp.245-248

XIX. **Mayo Darbe Denetimli Protez El : Bölüm 2**

TEPE C., EMİNOĞLU İ., ÇELİK M. S.

OTOMATİK KONTROL TÜRK MİLLİ KOMİTESİ ULUSAL TOPLANTISI 2016, Eskişehir, Turkey, 29 September - 01 October 2016, pp.262-265

- XX. **Mayo Darbe Denetimli Protez El Benzetimi : Bölüm 1**  
TEPE C., EMİNOĞLU İ.  
OTOMATİK KONTROL TÜRK MİLLİ KOMİTESİ ULUSAL TOPLANTISI 2016, Eskişehir, Turkey, 29 September 2016, pp.266-270
- XXI. **Does Fitness Scaling Boost the Performance of Single Objective Genetic Algorithm**  
ERGÜL E. U., GEZEGİN C., EMİNOĞLU İ.  
ICENS, 24 May 2016 - 28 January 2017
- XXII. **Prediction Angle of Hand Opening Closing by Using Surface Electromyogram sEMG and Image Processing Method A Novel Approach**  
TEPE C., ŞENYER N., EMİNOĞLU İ.  
3rd World Conference On Innovation And Computer Sciences (INSODE 2013), Antalya, Turkey, 26 - 29 April 2013, pp.723-728
- XXIII. **Multifunctional Hand Prosthesis Setup Design**  
Çelik M. S., Tepe C., Baş H., Eminoğlu İ.  
Medical Technologies National Conference (TIPTEKNO), Antalya, Turkey, 27 - 29 October 2016
- XXIV. **Design of Prosthetic Hand Simulator**  
Cinal S., Çelik M. S., Sahin I., Tepe C., Eminoğlu İ.  
Medical Technologies National Conference (TIPTEKNO), Antalya, Turkey, 27 - 29 October 2016
- XXV. **Neuromuscular Disease Diagnosis of SVM, K-NN and DA Algorithm Based Classification Part-II**  
Kucuk H., Eminoğlu İ.  
Medical Technologies National Conference (TIPTEKNO), Antalya, Turkey, 27 - 29 October 2016
- XXVI. **Neuromuscular Disease Diagnosis of SVM, K-NN and DA Algorithm Based Classification Part-I**  
Kucuk H., Eminoğlu İ.  
Medical Technologies National Conference (TIPTEKNO), Antalya, Turkey, 27 - 29 October 2016
- XXVII. **Fuzzy Logic Based Classification for Multifunctional Upper Limb Prostheses**  
Çelik M. S., Eminoğlu İ.  
Medical Technologies National Conference (TIPTEKNO), Antalya, Turkey, 27 - 29 October 2016
- XXVIII. **Estimate Agle Information of Hand Open-Close From Surface Electromyogram (sEMG)**  
Tepe C., Eminoğlu İ., Senyer N.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015
- XXIX. **Programmable Current Source and Nerve Conduction Velocity Experimental Setup**  
Tepe C., Eminoğlu İ.  
Medical Technologies National Conference (TIPTEKNO), Antalya, Turkey, 27 - 29 October 2016
- XXX. **Classification of ALS Disease Using Support Vector Machines**  
Kucuk H., Eminoğlu İ.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.1664-1667
- XXXI. **Düşük Maliyetli Mayo-Elektrik Denetimli Protez El Projesi Kontrol Mühendisliği Laboratuvarı Deneysel Düzenekli Tasarımı**  
TEPE C., EMİNOĞLU İ.  
OTOMATİK KONTROL TÜRK MİLLİ KOMİTESİ ULUSAL TOPLANTISI 2014, Kocaeli, Turkey, 11 - 13 September 2014
- XXXII. **Temel Kontrol Eğitimi İçin Sıcaklık Denetimi Deneysel Düzenekli Tasarımı**  
Cinal Ş., EMİNOĞLU İ.  
Otomatik Kontrol Ulusal Toplantısı, TOK2014-Kocaeli, Kocaeli, Turkey, 11 September 2014, pp.862-867
- XXXIII. **Feature Extraction of Wavelet Transform for sEMG Pattern Classification**  
Tepe C., Eminoğlu İ., Senyer N.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1098-1101

- XXXIV. **Prediction Speed Of Hand Open-Close By Using Neural Network**  
Tepe C., Senyer N., Eminođlu İ.  
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1090-1093
- XXXV. **Endüstriyel PID Denetleyici İle Sıvı Seviye Denetimi Deney Düzeneđi Tasarımı**  
Cinal Ş., EMİNOĐLU İ.  
Otomatik Kontrol Ulusal Toplantısı, TOK 2013- Malatya, Malatya, Turkey, 26 September 2013
- XXXVI. **Predicting Joint Angle Of Hand Opening Closing by Using Surface Electromyogram sEMG and Image Processing Method A Novel Approach**  
TEPE C., ŞENYER N., EMİNOĐLU İ.  
World Conference on Innovation and Computer Sciences 2013-Antalya, Antalya, Turkey, 02 June 2013
- XXXVII. **A two-pass hybrid training algorithm for RBF networks**  
ÖZDEMİR A. E., Eminođlu İ.  
8th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 28 - 30 November 2013, pp.617-620
- XXXVIII. **Classification of EMG Signals by K-Nearest Neighbor Algorithm and Support Vector Machine Methods**  
Kucuk H., Tepe C., Eminođlu İ.  
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
- XXXIX. **Yüzey Elektromiyogram Yemg İşaretinden El Aç Kapa Hız Bilgisinin Kestirimi**  
TEPE C., KÜÇÜK H., EMİNOĐLU İ.  
Elektrik-Elektronik ve Bilgisayar Mühendisliği Konferansı, (ELECO 2012), Bursa, Turkey, 29 - 01 December 2012
- XL. **Amyotrofik Lateral Skleroz Als Hastalığının Destek Vektör Makinesi İle Teşhisi**  
KÜÇÜK H., TEPE C., EMİNOĐLU İ.  
Elektrik-Elektronik ve Bilgisayar Mühendisliği Konferansı, (ELECO 2012), Bursa, Turkey, 29 December 2012 - 01 December 2013
- XLI. **Classification of Two Common Power Quality Disturbances Using Wavelet Based SVM**  
Kocaman C., Usta H., Ozdemir M., Eminođlu İ.  
15th IEEE Mediterranean Electrotechnical Conference (MELECON 2010), Malta, 25 - 28 April 2010, pp.587-591
- XLII. **A REAL-TIME EMG DRIVEN VIRTUAL PROSTHESIS HAND**  
ÖZDEMİR A. E., KAYHAN G., USTA H., GHAROONI S. C., Tokhi M. O., EMİNOĐLU İ.  
The Twelfth International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machines, Istanbul, Turkey, Turkey, 9 - 11 September 2009, pp.250-257
- XLIII. **Effective Elitism Mechanism for Multi objective Evolutionary Algorithms**  
ERGÜL E. U., Usta H., EMİNOĐLU İ.  
International Symposium on INnovations in Intelligent SysTems and Applications, INISTA-2009, Trabzon, Trabzon, Turkey, 01 May 2009
- XLIV. **Designing Pre Processing Units For RBF Networks Part 2 Final Structure Identification And Course Tuning of Parameters**  
ÖZDEMİR A. E., KAYHAN G., EMİNOĐLU İ.  
International Symposium on INnovations in Intelligent SysTems and Applications, Trabzon, Turkey, 01 May 2009
- XLV. **Designing pre processing units for RBF networks part 2 Final identification and course tuning of parameters**  
ÖZDEMİR A. E., KAYHAN G., EMİNOĐLU İ.  
International Symposium on INnovations in Intelligent SysTems and Applications-INISTA 2009, Trabzon, Turkey, 29 June - 01 July 2009, pp.190-194
- XLVI. **Effective Usage of Gamma Correction Operator in Genetic Algorithms**  
ERGÜL E. U., EMİNOĐLU İ.  
International Symposium on INnovations in Intelligent SysTems and Applications, INISTA-2009, 01 May 2009
- XLVII. **Designing pre processing units for RBF networks part 1 Inital structure identification**  
KAYHAN G., ÖZDEMİR A. E., EMİNOĐLU İ.  
International Symposium on INnovations in Intelligent SysTems and Applications- INISTA 2009, Trabzon, Turkey,

29 June - 01 July 2009, pp.185-189

**XLVIII. Çaprazlama İşlevinin Genetik Algoritmalarındaki Çeşitliliğe Etkisinin İncelenmesi**

KÜÇÜK H., ERGÜL E. U., EMİNOĞLU İ.

ASYU 2008 - Akıllı Sistemlerde Yenilikler ve Uygulamaları Sempozyumu, Turkey, 18 - 20 June 2008, vol.1, pp.129-133

**XLIX. SIMILARITY BASED RULES REDUCTION OF A FUZZY LOGIC CONTROLLER FOR A PMDC MOTOR DRIVE SYSTEM**

EMİNOĞLU İ., Linkens D. A.

Proceedings of the 12th IEEE International Symposium on Intelligent Control, İstanbul, Turkey, 16 - 18 July 1997, pp.319-324

## **Supported Projects**

Eminoğlu İ., Project Supported by Higher Education Institutions, Biyonik Protez Bacağın Geliştirilmesi, 2022 - 2024

Eminoğlu İ., Project Supported by Higher Education Institutions, İnsansız Hava Araçları için Sistem Entegrasyonu Labı : İHA-SEL, 2020 - 2023

Eminoğlu İ., Project Supported by Higher Education Institutions, Kontrol Labratuvarlarının Kurulumu, 2014 - 2017