

## **Lect. PhD SEZEN BAL**

### **Personal Information**

**Email:** sezen.bal@marmara.edu.tr

**Web:** <https://avesis.marmara.edu.tr/14956>

### **International Researcher IDs**

ORCID: 0000-0002-7244-6613

Yoksis Researcher ID: 381563

### **Education Information**

Undergraduate, Kocaeli University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 2019 - 2020

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Electronics-Computer Education, Turkey 2007 - 2014

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Electronics-Computer Education, Turkey 2005 - 2007

Undergraduate, Marmara University, Faculty of Technical Education, Electronic and Computer Education, Turkey 2000 - 2004

### **Foreign Languages**

English, B2 Upper Intermediate

### **Dissertations**

Doctorate, A special purpose input/output card emulator by using FPGA, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Electronics-Computer Education, 2014

Postgraduate, Design of a remote access electronics laboratory, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Electronics-Computer Education, 2007

### **Research Areas**

Logic Design, Integrated Circuits, Database and Data Structures, Software, Engineering and Technology

### **Academic Titles / Tasks**

Lecturer PhD, Marmara University, Vocational School of Technical Sciences, Computer Technologies, 2022 - Continues

Lecturer PhD, Marmara University, 2018 - 2022

### **Courses**

OBJECT ORIENTED PROGRAMMING, Associate Degree, 2023 - 2024, 2022 - 2023

DATABASE MANAGEMENT SYSTEMS I, Associate Degree, 2023 - 2024, 2022 - 2023  
BİTİRME PROJESİ, Associate Degree, 2023 - 2024, 2022 - 2023  
EMBEDDED SYSTEM PROGRAMMING, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
ADVANCED MICROCONTROLLERS, Associate Degree, 2023 - 2024, 2022 - 2023  
PROJECT MANAGEMENT, Associate Degree, 2022 - 2023  
OBJECT ORIENTED PROGRAMMING I, Associate Degree, 2023 - 2024, 2022 - 2023  
ADVANCED DIJITAL DESIGN, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021  
EMBEDDED SYSTEMS, Associate Degree, 2023 - 2024  
SOFTWARE DEVELOPMENT, Associate Degree, 2023 - 2024  
VOCATIONAL ENGLISH, Associate Degree, 2021 - 2022  
PROGRAMMING LANGUAGE, Associate Degree, 2021 - 2022  
ALGORITHMS AND PROGRAMMING, Associate Degree, 2020 - 2021  
COMPUTERISED DATA ACQUISITION AND CONTROL, Associate Degree, 2018 - 2019  
MICROCONTROLLERS, Associate Degree, 2019 - 2020, 2018 - 2019  
GRADUATION PROJECT, Associate Degree, 2018 - 2019  
MICROPROCESSORS / MICROCONTROLLERS Uygulamak için tıkla, Associate Degree, 2018 - 2019

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

- I. **Technical teacher training program for engineering integration in K-12 education**  
Bal S., Sarıkış A., Yayla A., Başpınar U., Altınay S., Baba A. F., Erdal H., Korkmaz H.  
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.22746, pp.1-16, 2024 (SCI-Expanded)
- II. **A Remotely Accessible and Configurable Electronics Laboratory Implementation by Using LabVIEW**  
Azaklar S., KORKMAZ H.  
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.18, no.4, pp.709-720, 2010 (SCI-Expanded)

### **Articles Published in Other Journals**

- I. **Design and Testing of a Wireless Communication Enabled FPGA Development Board: A Comprehensive Education and Application Platform from IoT to Circuit Design**  
KARAGEDİK N., BAL S., YAYLA A.  
European Journal of Technique, vol.13, no.2, pp.123-129, 2023 (Peer-Reviewed Journal)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Developing a graduate level embedded system programming course content by using blended programming methodologies Text based and graphical**  
ercan C., KORKMAZ H., TOKER K.  
2014 IEEE Global Engineering Education Conference (EDUCON), İstanbul, Turkey, 3 - 05 April 2014, pp.1010-1015
- II. **Real-Time Instrument Control Via Internet By Using LabVIEW Graphical Development Platform**  
Bal S., Korkmaz H.  
International Educational Technology Conference, Eskişehir, Turkey, 6 - 08 May 2008, pp.1020-1025

### **Supported Projects**

Bal S., Korkmaz H., Erdal H., Baba A. F., Sarıkış A., Yayla A., Başpınar U., Altınay S., TUBITAK Project, INNOVATIVE METHODS FOR COMPUTER SCIENCES AND DIGITAL SYSTEMS EDUCATION, 2021 - 2022