

Identification of Partner Organization	
<b>PIC</b>	906834183
<b>Organisation ID</b>	E10060498
<b>VAT No</b>	4841125387
<b>Erasmus Charter</b>	272830-EPP-1-2020-1-TR-EPPKA1-ECHE
Promoter's legal name (national language)	İZMİR BAKIRÇAY UNIVERSİTESİ
Promoter's legal name (Latin characters – if applicable)	Izmir Bakircay University
Acronym, if applicable	Bakircay
National ID number, if applicable	
Department, if applicable	
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<b>Profile of the Organization</b>	
Type of Organization	HEI
Is the partner organization a public body?	Yes
Is the partner organization a non-profit?	Yes

<b>Background and Experience</b>	
<p>University of Bakırçay is a public university established in 2016, in Izmir, Turkey, which currently employs approximately 328 faculty members, 196 administrative staff and 6776 students. Its mission is to explore and disseminate knowledge, encourage innovation, and contribute to the economic, social, and cultural development of society. Moreover, the vision is to become a reputable techno-entrepreneurship university with a project-oriented structure in the field of technology, encouraging entrepreneurship within its ecosystem and having a sustainable corporate structure.</p> <p>The four pillars that Izmir Bakircay University was built on are:</p> <ul style="list-style-type: none"> <li>• High Quality in Education</li> <li>• Different educational atmosphere</li> <li>• Accessibility for Disabled People (the only university in Izmir being awarded for this)</li> <li>• "Green" University (ranked 592 in the world in the UI GreenMetric World University Ranking)</li> </ul> <p>In order to meet the high standards, set by the organization and undertake the above-mentioned activities, our academic personnel have strong academic backgrounds and project experience. The University's teaching and research activities are delivered across seven faculties, within which there are several departments:</p> <ul style="list-style-type: none"> <li>▪ Faculty of Arts and Science (Geography, Psychology, Sociology)</li> <li>▪ Faculty of Economics and Administrative Sciences (Business, Economics, MIS)</li> <li>▪ Faculty of Health</li> <li>▪ Faculty of Pharmacy</li> <li>▪ Faculty of Law</li> <li>▪ Faculty of Health Sciences (Language and Speech Therapy, Health Management, Nursing, Physiotherapy and Rehabilitation)</li> </ul>	

- Faculty of Architecture and Engineering (Electrical/Electronic, Computer, Industrial, Bio-medical Engineering)

The educational activities are supported also by the Graduate Education Institute, the 3 Vocational Training Schools and the School of Foreign Languages.

Our university has been also active and focus on research related activities and therefore established the following research centers:

- Data Analytics and Spatial Data Modeling Application and Research Center
- Distance Education Application and Research Center
- Career Center
- Quality and Accreditation Application and Research Center
- Biomedical Technologies Design, Application Research Center
- Neuroscience and Cognitive Research Application and Research Center
- Artificial Intelligence Application and Research Center in Health
- Continuous Education Center
- Physiotherapy and Rehabilitation Center
- Language Education Center

The research is also supported by several labs that have been established:

- Available Laboratories
- Digital Electronics Lab
- Embedded Systems Lab
- Computer Lab
- Neuroscience and Cognitive Research Lab
- Artificial Intelligence and Data Analytics in Health Lab (to be established soon)
- Virtual Reality and Simulation Lab («)
- Brain Dynamics and Rehabilitation Research Lab («)
- Biomedical Device Design and Analysis Lab («)
- IoT and natural language processing Lab («)

#### Innovation and Collaborations:

- TEKMER (Technology Development Center): A structure that provides services to entrepreneurs or businesses that have technology/innovation-oriented business ideas/projects with one or more related themes and research-development and/or product/process/service innovation.
- TEKNOPARK: a Technology Development Zone with a focus on health and technology to contribute to the vision of being a thematic university in the field of health
- İzmir Bakırçay University Çiğli Training and Research Hospital

With regards to the **Faculty of Engineering and Architecture**, it commenced academic activities in the 2018-2019 academic year with departments such as Computer Engineering, Electrical and Electronics Engineering, Industrial Engineering, and Mechanical Engineering. The foundational idea in the structuring of the faculty was to emphasize “specialized” and innovative areas rather than traditional approaches. In this context, the Faculty of Engineering has prioritized fields including artificial intelligence in medicine and health, data science, robotics and automation, renewable energy systems, smart manufacturing, and sustainable engineering practices. Accordingly, the Faculty offers undergraduate programs while fostering research and innovation through its specialized centers, including the Robotics and Artificial Intelligence Research Center and the Energy and Sustainability Research Center.

Moreover, İzmir Bakırçay University provides robust infrastructure in terms of staff and facilities to support both educational and research initiatives. Faculty installed a research laboratory for students in the last semester to design and implement its related projects in coordination with the faculty members during last term internship. This leads to that the faculty members have significant expertise in managing and contributing to international projects, particularly those under the EU framework, including financial management, coordination, development of advanced

technological tools (e.g., portals and websites), creation of training materials, piloting projects, event organization, and dissemination activities.

**Few representative profiles:**

**Prof. Dr. Mehmet Kemal Güllü:** He completed Ph.D. in Electronic and Telecommunications Engineering at Kocaeli University in 2006, serving as a faculty member in the same department from 2006 to 2020. Since 2020, they have been a faculty member in the Department of Electrical- Electronics Engineering at Izmir Bakırçay University. Since 2008, he has been actively involved in the private sector as a company partner, employee, and consultant in high-value R&D projects. His research focuses on signal processing, image processing, computer vision, remote sensing, and machine learning.

**Assist. Prof. Dr. Okan BURSA:** He received B.Sc. degree in Computer Engineering from Istanbul Technical University, M.Sc. and Ph.D degree in Computer Engineering from Ege University. His research interests include semantic web, artificial intelligence, profile management, social networks. He participated in several national research project in Ege University and was a member of Erasmus+ KA2 Strategic Partnership project

entitled “E-Learning Content Creation For Interdisciplinary Master Of Science Programme In Product Lifecycle Management (PLM) Within European Communities”. His expertise in teaching more abstract topics of artificial intelligence over the years in bachelor and graduate degree is valuable for the selection of the curriculum and course information for the project. With over ten years of experience as both a practitioner and educator in extreme programming and its related subtopic, agile methodologies, his perspective on implementing agile as an educational approach facilitates this adaptation

With regards to *Faculty of Economics and Administrative Sciences*, it has started academic activities in 2018-2019 with three departments: Business Administration, Economics, International Trade and Business, and Management Information System. The idea that came to the fore in the structuring of the faculty was the focusing on “special” defined areas rather than “generalists”. In this respect, the Faculty of Economics and Administrative Sciences has prioritized the areas such as entrepreneurship, circular economy, sustainability, international business, international economics, informatics, behavioral economics and finance. Thus, the Faculty offers undergraduate programs and has established research centers namely, Neuroscience and Cognitive Research Center, and Continuing Education Center.

Moreover, IZBU obtains the infrastructure both staff and premises wise to support the project, since the involved personnel has a very strong background regarding EU project affairs (financial management, coordination, development of online tools such as portal and web sites, development of training materials, piloting, organisation of events, dissemination).

**Few representative profiles:**

**Prof. Abdulkadir Hiziroglu:** He has been in academia since 2001. He started his career as a research assistant & has been working in different departments including Informatics Department & Distance Education Centre of Sakarya University. He received a BSc degree from Sakarya University Industrial Engineering Department in 2001 & was awarded with a master degree in the same area in 2003. He then pursued his PhD degree at Manchester Business School, United Kingdom. During his PhD, he worked on designing & implementing a customer segmentation model using soft computing technologies within the framework of data mining & knowledge discovery. After the completion of his PhD in 2009, he worked as an Assistant Professor in Industrial Engineering & Management Information Systems Departments at Sakarya University, Ankara Yildirim Beyazit University and ASBU for nine years. Currently, he works for Izmir Bakircay University as academic personnel of Economics and Administrative Sciences Faculty-MIS Department, and serving as Vice Rector of the university. He has several research interests such as soft computing/data mining applications in business & management, business intelligence & customer analytics, & elearning, with numerous related publications. He also has project experience in inter-disciplinary projects at national & EU-level, & has been Project Coordinator for EU-funded projects.

**Assist.Prof. Ourania Areta:** She is coming from a background in the area of food quality management & agriculture & has working experience in Greece, UK & Turkey. She graduated from Agricultural University of Athens as a Natural Resources Manager & Agricultural Engineer. She then pursued her MSc degree in Salford Business School (UK) & graduated in 2008 as a Food Quality Manager. In the meantime, she got training regarding Public Administration & Social Policy at the Greek Manpower Employment Organisation, & worked as a researcher for Sakarya University, Turkey, where she has also been conducting her PhD in Product & Operations Management (Business School). She worked as a lecturer & project developer for Ankara Yildirim Beyazit University, Business School, under the Management Information Systems Department, when she took part in several EU funded projects as a researcher, financial coordinator and manager. She is currently a full time academic member of Izmir Bakircay University, Faculty of Economics and Administrative Sciences- MIS Department; in parallel to academic duties, she has the responsibility of EU project development. Her research area includes topics such as Operations Management, Supply Chain Management, Sustainability, Business, and Business Performance Measurement.

**Assoc. Prof. Orhan Er:** He has been in academia since 2002. He started his career as a research assistant and has worked in various departments including the Computer Engineering Department and the Information Processing Unit of Sakarya University. He received a BSc degree from the Computer Engineering Department of Sakarya University in 2001 and a master's degree in the same field in 2004. He then began working on a PhD degree in the Electrical and Electronics Engineering Department of the same university. During his PhD, he worked on applying artificial intelligence technologies in healthcare using data mining and knowledge discovery. After completing his PhD in 2009, he worked as an Assistant Professor and Associate Professor in the Electrical and Electronics Engineering and Computer Engineering Departments at Yozgat Bozok University. Currently, he works as academic staff in the Computer Engineering Department of the Engineering-Architecture Faculty of Izmir Bakircay University. He also serves as the head of the department and the director of the research center. He has several research interests in artificial intelligence applications in healthcare, data analytics, AI and eLearning, and has many publications and projects related to these areas. He also has project experience in national and international interdisciplinary projects.

**Prof. Halil Kemal Ilter:** He has been in academia since 1996. He started his career as a research assistant & has been working in different departments including Business Administration of Gazi University, Management of Baskent University, Management Information Systems of Yildirim Beyazit University, Mechanical and Industrial Engineering of Concordia University, and Management Information Systems of Bakircay University. He received a BSc degree from Middle East Technical University Mining Engineering Department in 1994 and was awarded with a master degree in the operations research area in 1998 at Gazi University. He then pursued his PhD degree at Gazi University Business School. During his PhD, he worked on designing and implementing an Enterprise Resource Planning and E-Business integration. After the completion of his PhD in 2004, he worked as an instructor in Management Department at Baskent University for seven years. Between 2010 and 2021 he worked as Assistant Professor and Associate Professor in Management Information Systems Department. He work as a visiting professor in Mechanical and Industrial Engineering Department at Corcordia University between 2012-2015, as well as between 2019-2020. Currently, he works for Izmir Bakircay University as academic personnel of Economics and Administrative Sciences Faculty- MIS Department, and serving as Chair of Department of Management Information Systems of the university. He is an interdisciplinary researcher and boldly using metaphors from biology and physics in his works such as fitness landscapes, evolutionary algorithms, swarm intelligence, gravity theory, etc. His research interests take place in three domains; Operations management (supply chain management, complexity in operations, etc.), Operations research (decision processes, queuing systems, simulation, etc.) and Information systems (knowledge management, artificial agents, theoretical foundations of information, etc.), with numerous related publications. He also has project experience in interdisciplinary projects at national & EU-level.

**Dr. Onur Dogan:** He is a postdoctoral researcher at University of Padua and an associate professor at Izmir Bakircay University. He graduated from the Sakarya University with a bachelor's degree in Industrial Engineering in 2010 and received the master's degree and Doctor of Philosophy in Industrial Engineering from the Istanbul Technical University in 2013 and 2019, respectively. He studied on intelligent decision support system, lean manufacturing and quality approaches such as QFD, FMEA or DOE during the master thesis. Process mining is the primary focus his Ph.D. study. He is one of the first academicians who have a Ph.D. title on process mining in Turkey. During his doctorate study, he had been at Universitat Politecnica de Valencia as a visitor researcher for a 12-month research project. As Smart University and Digital Transformation Coordinator, he coordinates one of the five major projects of İzmir Bakırçay University. His current research areas are process mining, machine learning, robotic process automation, digital transformation.

**Prof. Sanem ÇİTÇİ:** She was born in 1981 in Turkey and graduated Sakarya University, Faculty of Economics and Administrative Sciences. She has been working as academic person since 2003. She started as a research assistant at Sakarya University and then she became an Assistant Prof at the same university. She worked as visiting scholar at NHH (Norway) for one year and she started to work as Associate Professor at Izmir Bakircay University in 2018. Her major field is entrepreneurship and qualitative research methods. She teaches entrepreneurship, social entrepreneurship and international entrepreneurship courses at undergraduate and postgraduate level. She also wrote a lecture note and prepared module videos in the e-MBA program at Sakarya University. She was part of EU Projects that took place at Sakarya University as researcher.

**Project Experience:**

- 46 projects (funded by the Scientific Research Projects Coordination Office)
- 10 TÜBİTAK projects
- 6 EU Funded projects (Horizon and Erasmus+)