



“The Perfusion Department provides students with both theoretical knowledge and practical skills, enabling them to become an important part of the cardiovascular surgery team.”

Asst. Prof. Turgay DAĞTEKİN
Head of the Department of Perfusion



History Of Department

1950's

The foundation of perfusion science was laid with the invention of the heart-lung machine in the 1950s. Dr. John Gibbon performed the first successful open heart surgery in 1953. In this surgery, the patient's heart was stopped and a heart-lung machine was used.

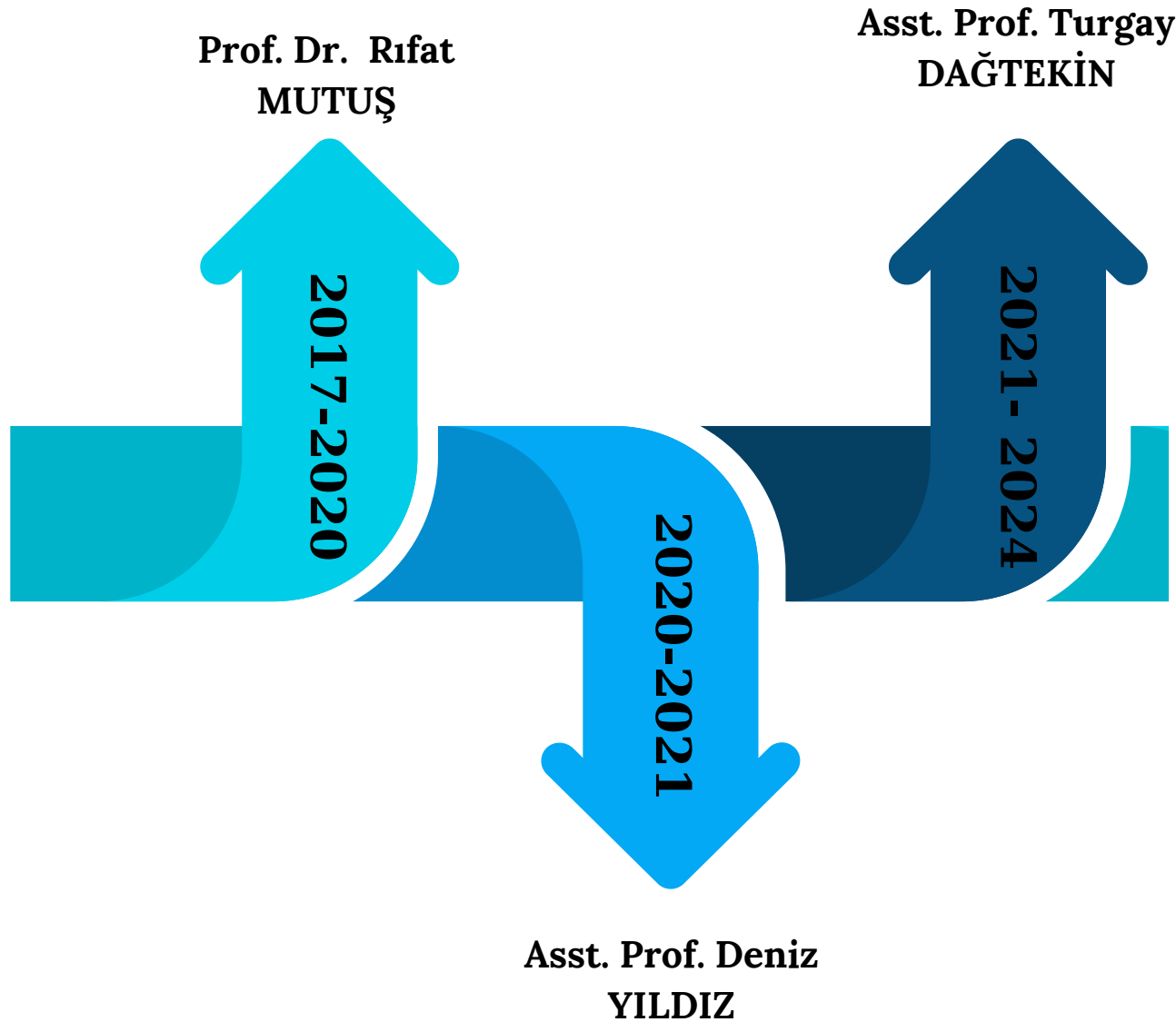
1960's

The first successful open heart surgeries with a heart-lung machine were performed in Turkey in the 1960s. During this period, significant developments were made in the field of cardiac surgery in hospitals in big cities, especially Istanbul and Ankara.

2000's and
Later

While perfusionists were trained with a master's degree in the 2000s, perfusionists started to be trained with an undergraduate program for the first time in 2014. Perfusion undergraduate education started at our university in 2017.

History



The achievements given to students while training perfusionists at the university enable them to acquire both theoretical knowledge and practical skills. These gains are critical to enable perfusionists to use heart-lung machines safely and effectively during surgery and perform the procedure successfully without risking patients' lives.



1. **Basic Knowledge and Theory:** Students are taught the basic principles and theoretical knowledge of perfusion.



2. **Laboratory Studies:** Thanks to laboratory practice, students' practical skills are improved.



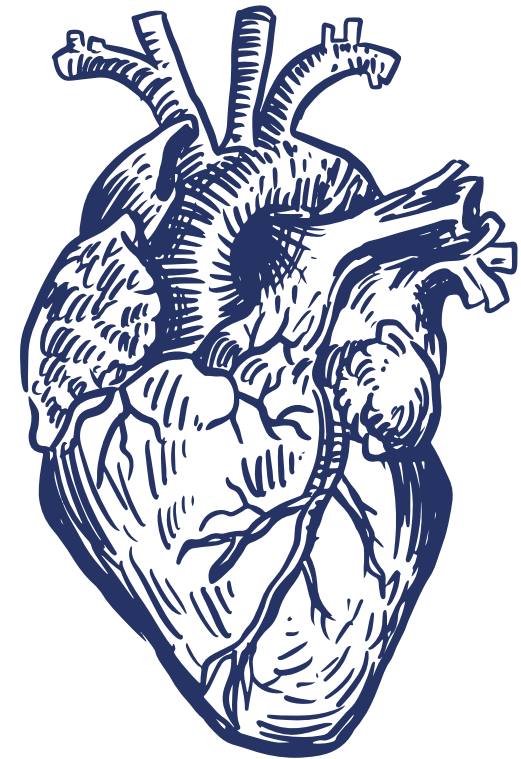
3. **Clinical Experience:** Students gain real clinical experience through professional practice.



4. **Mentoring and Consultancy:** Experienced perfusionists guide and support students through mentoring.



5. **Assessment and Exams:** Students are evaluated regularly through written and practical exams.



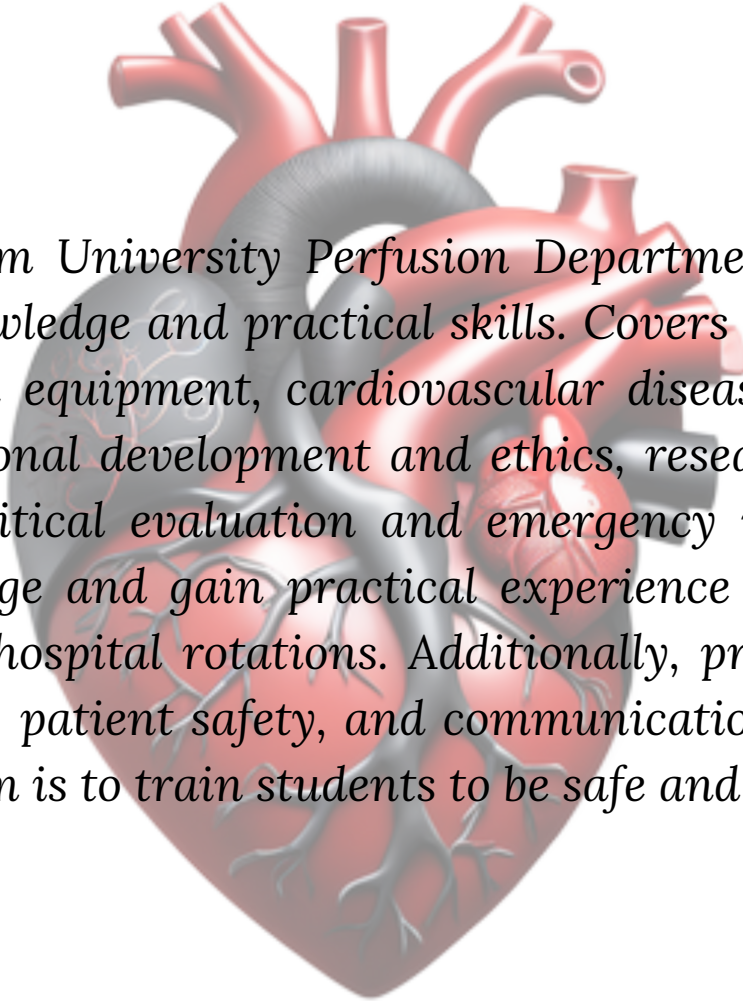
Aim Of The Department

With its undergraduate education, the Department of Perfusion aims to train healthcare professionals who manage extracorporeal blood circulation by using the heart-lung machine under the supervision of relevant specialist physicians in interventions on the heart and/or large vessels.

Future of The Department

With the development of technology, more sedentary lifestyles have emerged. This sedentary lifestyle has further increased the rate of cardiovascular diseases, which are the leading cause of death in the world. Increasing these rates increases the need for more open heart surgeries to be performed and therefore more and more Perfusionists who have strong human relations, are understanding, friendly, patient, can understand others, can communicate effectively, are prone to team work and are open to innovations and new ideas.

Program and Curriculum

A detailed anatomical illustration of a human heart, showing the major blood vessels (aorta, pulmonary artery, and pulmonary veins) and the coronary arteries. The heart is rendered in a realistic style with red and black colors.

The curriculum of Gelisim University Perfusion Department aims to provide students with both theoretical knowledge and practical skills. Covers topics such as basic sciences, perfusion techniques and equipment, cardiovascular diseases and surgical procedures, clinical practice, professional development and ethics, research and innovation, clinical skill development and critical evaluation and emergency response. Students reinforce their theoretical knowledge and gain practical experience through lectures, laboratory studies, simulations and hospital rotations. Additionally, professional and ethical issues such as ethical standards, patient safety, and communication skills are also emphasized. The goal of this curriculum is to train students to be safe and effective perfusionists.

Learning Outcomes

Ability to be able to professionally evaluate and apply the knowledge gained from basic level theoretical and applied courses supported by lecture notes, application tools and visual and objective sources containing current information in the field of perfusion.

Ability to monitor the patient and, when necessary, prepare appropriate medications under the supervision of a specialist doctor and anesthesia technician and apply them to the cardiopulmonary bypass system.

Ability to prepare and apply the heart-lung machine and other auxiliary equipment

Ability to perform the necessary applications in situations requiring first aid.

Being aware that teamwork forms the basis of the profession, ability to analyse the data regarding the patient or case as a team, interprets it and produces results.

Ability to perform all perfusion-related applications in accordance with adequate technique.

Our Academic Staff



Asst. Prof. Turgay DAĞTEKİN
Head of the Department of Perfusion



Prof. Dr. Ali Rıza CENAL



Prof. Dr. Kıvanç Derya PEKER



Res. Asst. S. Sude GERÇEKER

[Click here](#) for other lecturers in faculty.

Erasmus+ Program

Education and Internship Opportunities: The Erasmus+ program allows students to study at partner universities in Europe or do internships in businesses.

The program offers students the opportunity to encounter different cultures, improve their language skills, and gain academic and professional experience in an international environment.

Grant support is provided to students participating in the Erasmus+ program to help cover study abroad and internship expenses. These grants are based on costs of living, which vary from country to country.



Free Double Major Opportunity

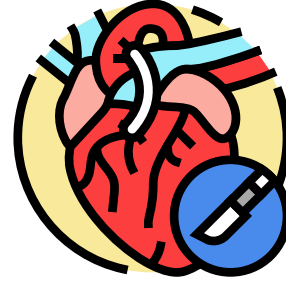
The purpose of the Double Major Program (DMP) is to ensure that students who complete their major programs with outstanding success can also receive a diploma in a second branch for FREE.

Provided that the General Weighted Grade Point Average (GPA) in the major program is at least 2.90 out of 4.00, students whose success rate is not less than 20% in the relevant class of the major diploma program can start the second major diploma program free of charge.

At the Faculty of Health Sciences, students are given the opportunity to receive an integrated education from different disciplines, provided that they meet the application requirements. The department with the highest rate of students enrolled in the Double Major Program at Istanbul Gelisim University Faculty of Health Sciences is the Perfusion Department.



Strong Steps to the Future: Our Graduates



Adem YÜMSEL
Perfusion

Being a part of the Istanbul Gelisim University family was a turning point in my life. Because education is not only about giving information, but also about gaining self-confidence, making friends and raising a good person. Earning the title of Perfusionist; It is a very stressful, tiring process that requires a lot of self-confidence. Perfusionists, one of the indispensable and hidden heroes of cardiovascular surgery, have to gain practical equipment as well as theoretical development during training. In this process, Istanbul Gelisim University family prepared us for business life by providing fully equipped training thanks to its fully knowledgeable teachers and equipment used in the field. The biggest reason why I lovingly adapted to this department, which I was unfamiliar with before I started, during my undergraduate education was our reputable and warm-hearted instructors. Thanks to the congresses hosted by our university and the events where we meet our experienced colleagues, many of my friends, including me, feel like strangers while working in the field. For exactly these reasons, being "Gelism Student" is an honor and privilege.



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“ We are waiting for students who want to be one of Turkey's leading perfusionists and leave their mark on human life. ”



You can contact with our head of department for further information:

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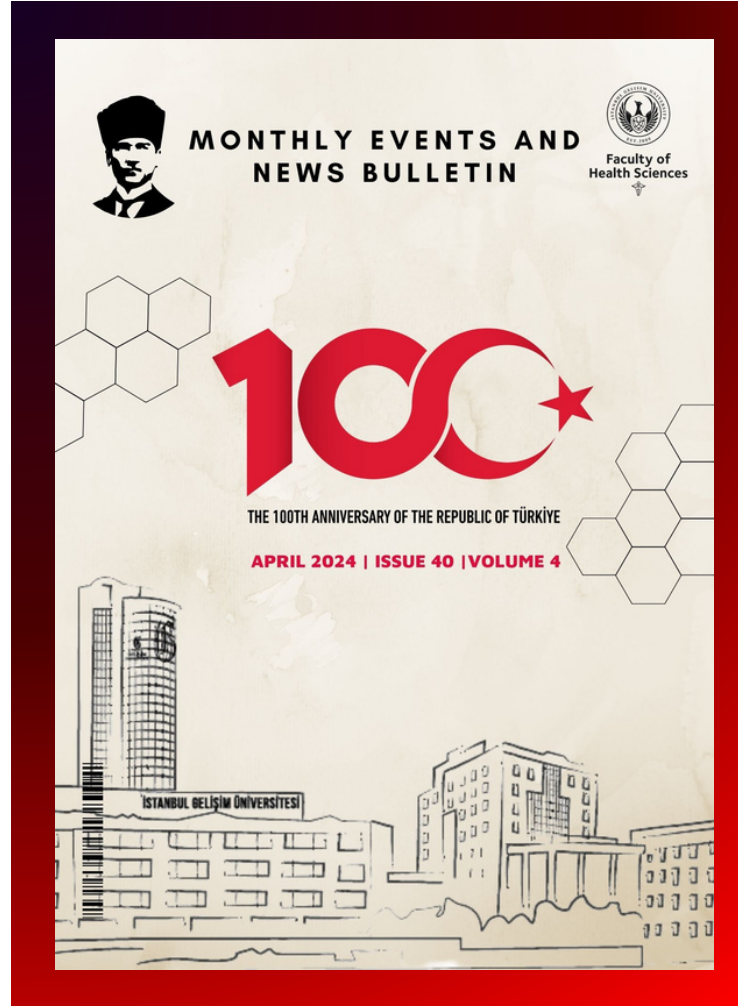
Perfusion Department



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The bulletin contains all current news and events related to the Faculty of Health Sciences.

