

FACULTY OF CHEMISTRY AND METALLURGY

DEPARTMENT OF BIOENGINEERING



DAVUTPAŞA KAMPÜSÜ



www.bioeng.yildiz.edu.tr



FIGURES BIOENGINEERING

ESTABLISHMENT

2003

UNDERGRADUATE
STUDENTS

734

UNDERGRADUATE
GRADUATE

425

NUMBER OF
DEPARTMENT

1

NUMBER OF
LABORATORY

18

UNDERGRADUATE
PROGRAM

2

MASTER'S
STUDENT

87

MASTER'S
GRADUATE

180

NUMBER OF
FACULTY MEMBER

15

LABORATORY
AREA

1240m²

MASTER'S
PROGRAM

1

PHD
STUDENT

73

PHD'S
GRADUATE

44

NUMBER OF
RESEARCH ASSISTANT

10

MASTER'S
PORGRAM

1040m²

PHD
PROGRAM

1

FOREIGN
STUDENT

81

NUMBER OF
LECTURER

2

PHD
PROGRAM

1040m²



EDUCATION AND TRAINING OBJECTIVES AND CURRICULUM



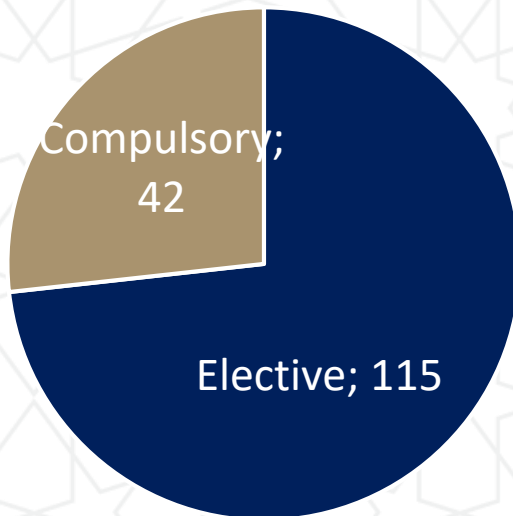
EUROPEAN
Higher Education Area



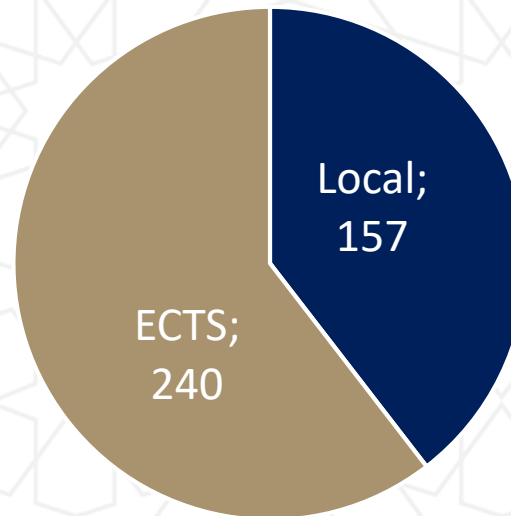
- ✓ Improving student achievement
- ✓ Ensuring continuity in accreditation
- ✓ Increasing the success of the Erasmus student mobility

- ✓ Increasing the rate of head of program educational objectives
- ✓ Increasing the success rate of program outcomes

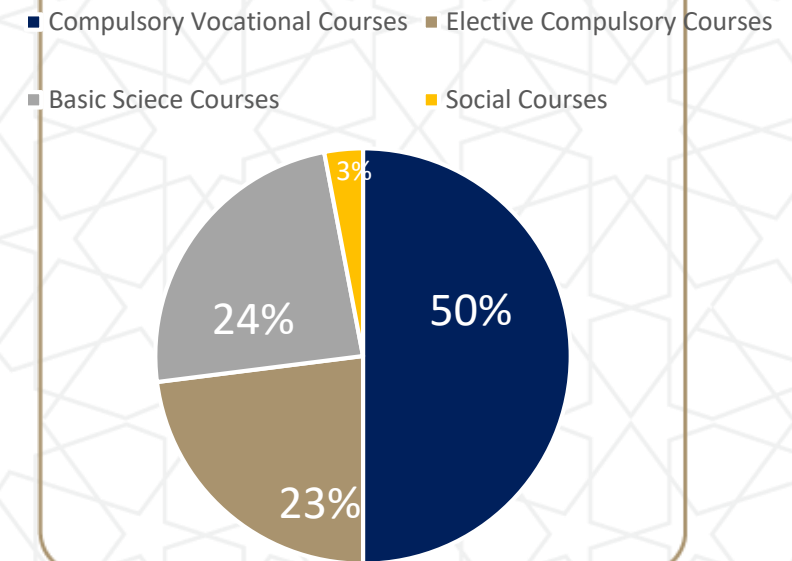
NUMBER OF COURSES



NUMBER OF CREDIT



CREDIT PROPORTION





EDUCATION AND TRAINING ACCREDITATION AND CERTIFICATES

MUDEK accreditation application has been made.



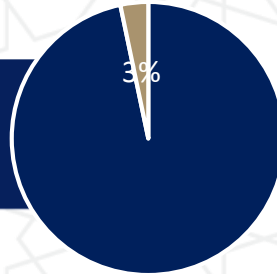
EDUCATION AND TRAINING

QUALITY OF STUDENTS ACCEPTED TO UNDERGRADUATE PROGRAMS

Order of Admission to
Undergraduate Program
(YKS-2019)

82.494

Placement Score (%)
(YKS-2019)



Undergraduate Occupancy Rate
(YKS-2019)

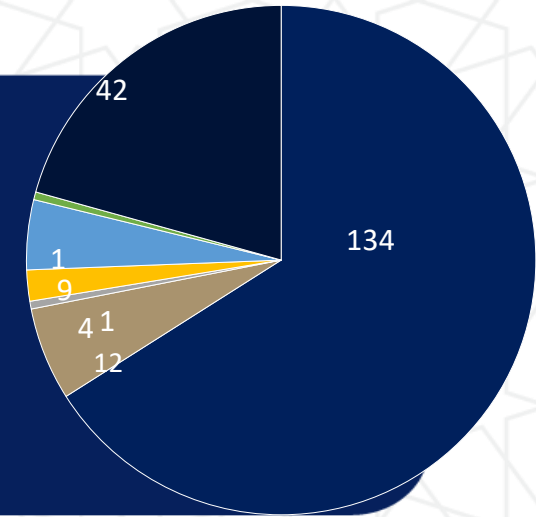
%100

Number of Students Enrolled
in the Undergraduate Program

160*

Statistics Of Students
Enrolled to
Undergraduate Program

- YKS
- Central Placement Transfer
- Internal Transfer
- Interinstitutional Transfer
- Vertical Transfer
- Double Major
- Foreign National



Double Major Programs:

Electronics and Communication Engineering, Food Engineering, Chemical Engineering, Industrial Engineering, Biomedical Engineering, Molecular Biology and Genetics, Electrical engineering

Number of Double Major Students

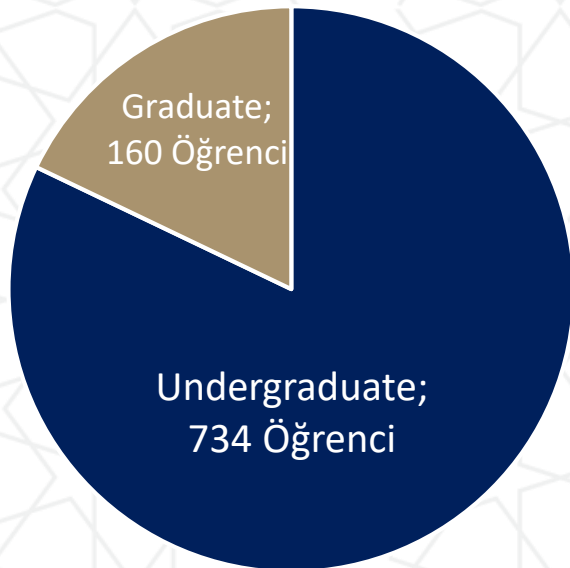
1

* 30% and 100% English Total number of departments

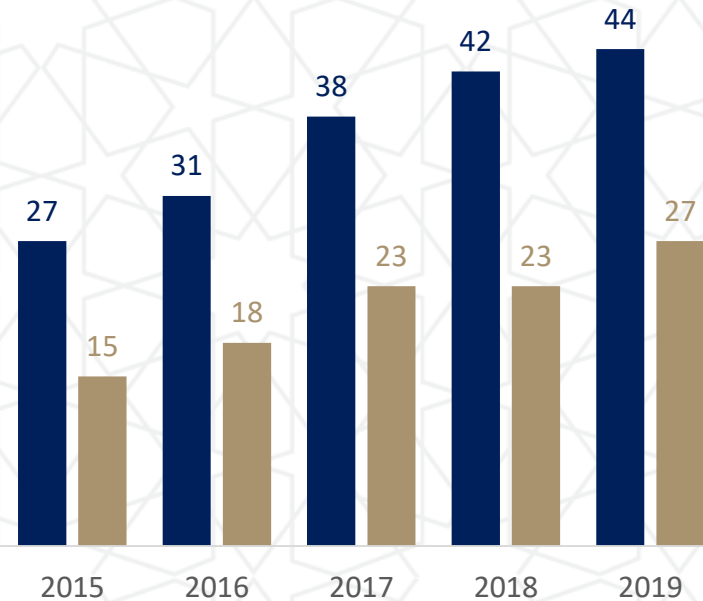


EDUCATION AND TRAINING INDICATORS RELATED TO THE QUALITY OF EDUCATION AND TRAINING

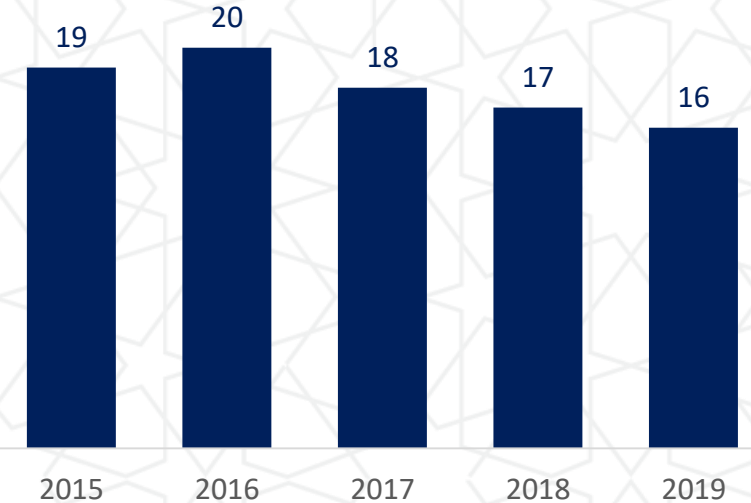
Total Student: 903



■ Number of Students per Faculty Member
■ Number of Students per Instructor



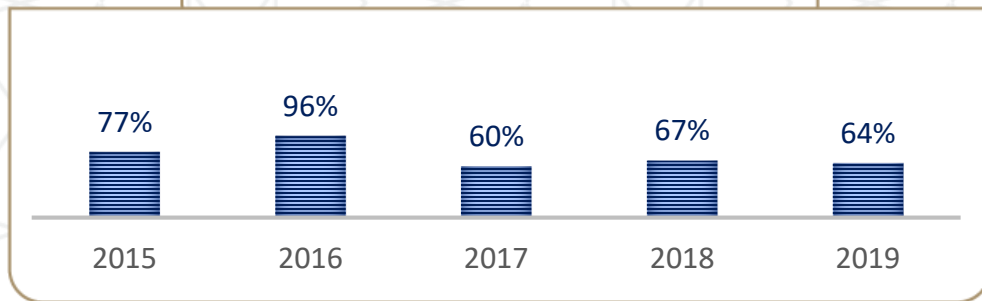
■ Course Load per Faculty Member (hours / week)



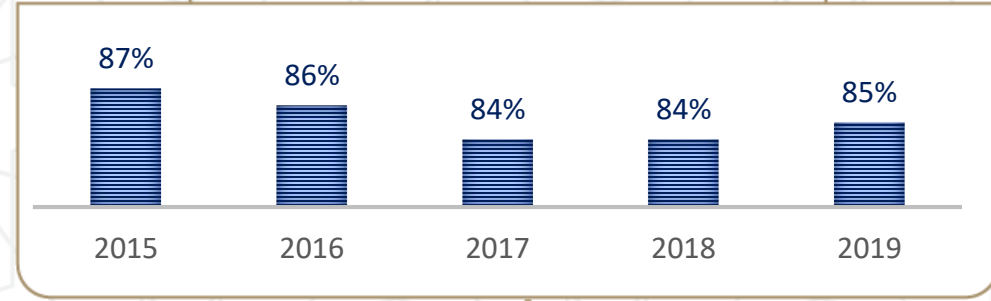


EDUCATION AND TRAINING SUCCESS LEVEL AND SATISFACTION

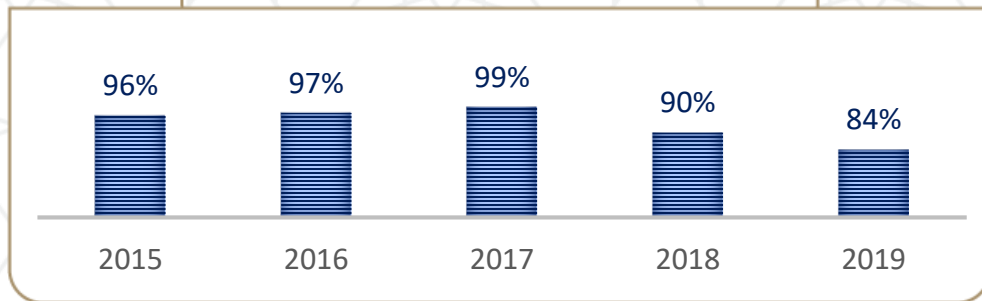

Graduation Rate *



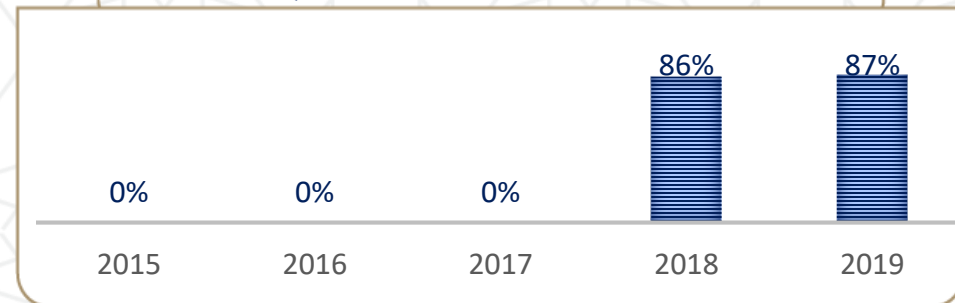

Student Satisfaction Rate ***




Student Success Rate **




Satisfaction Level of Business World Regarding
the Qualifications of Graduates ****



* Graduates during the education period
** Course success rate of students

** Student survey results
*** External stakeholder survey results



EDUCATION AND TRAINING INTERNATIONALIZATION



Number of Incoming
Student Exchange Program

2015	2016	2017	2018	2019
2	1	2	3	0



Number of Incoming
Teaching Staff Exchange Program

2015	2016	2017	2018	2019
0	0	0	1	0



Number of Outgoing
Student Exchange Program

2015	2016	2017	2018	2019
14	14	23	29	17



Number of Outgoing
Teaching Staff Exchange Program

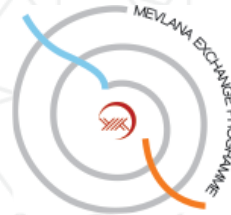
2015	2016	2017	2018	2019
1	0	1	1	1





EDUCATION AND TRAINING CONTRACTED UNIVERSITIES

Erasmus+



- Uniwersytet Technologiczno-Przyrodniczy w Bydgoszczy-Poland
- Universidad Polytechnica de Madrid- Spain
- University of Chemical Technology and Metallurgy-Bulgaria
- Beuth University of Applied Sciences Berlin-Germany
- Darmstadt University of Technology-Germany
- Technical University of Berlin-Germany
- Technical University of Dortmund-Germany
- Vienna University of Technology-Germany
- Wrocław University of Technology-Poland
- University of Trás-os-Montes e Alto Douro-Portugal

- University of Aveiro-Portugal
- Politehnica University of Bucharest-Romania
- Polytechnic Institute of Coimbra-Portugal
- University of Crete-Greece
- University of Minho-Portugal
- University of Tartu-Estonia
- KU Leuven-Belgium
- University of Barcelona-Spain
- Universidade de Vigo-Spain





RESEARCH AND DEVELOPMENT, INNOVATION AND ENTREPRENEURSHIP 2020 GOALS

Increasing Quality and Quantity of Broadcasting Activities

Number of SCI, SSCI, A & HCI articles per faculty member

:

1.9

Q1 and Q2 ratio of international articles

:

69%

Number of citations in SCI, SSCI, A & HCI journals per faculty member

:

70

Increasing the Number of Project Applications

Number of projects per faculty member

:

1.2

Number of interdisciplinary project applications

:

1.2

Increasing Entrepreneurship and Innovation Activities

Number of projects carried out in TEKNOPARK:

4

Number of patent model applications:

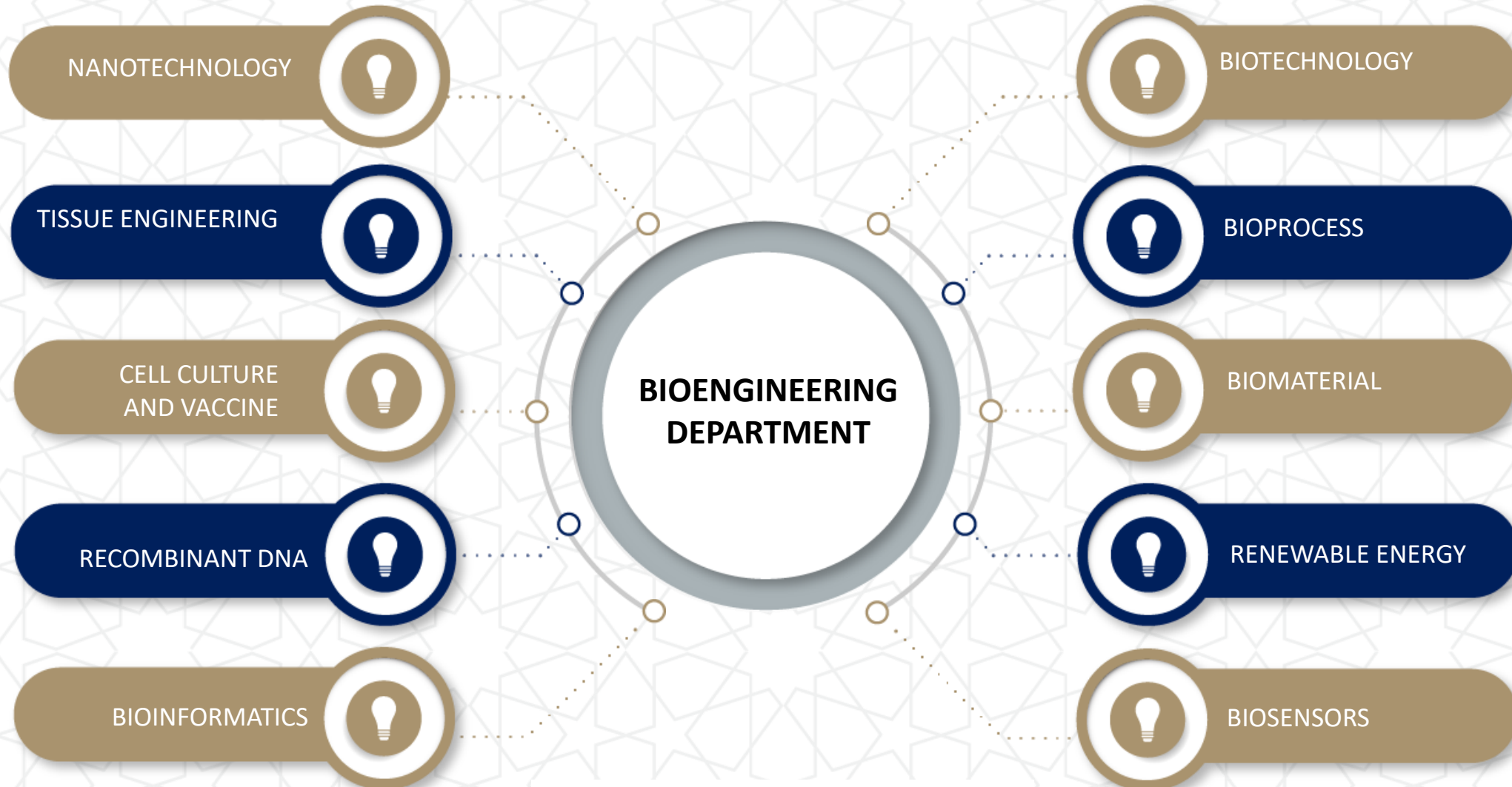
11

Useful Model and Design applications:

3



RESEARCH AND DEVELOPMENT, INNOVATION AND ENTREPRENEURSHIP THEMATIC RESEARCH AREAS





RESEARCH AND DEVELOPMENT, INNOVATION AND ENTREPRENEURSHIP RESEARCH AND DEVELOPMENT POTENTIAL

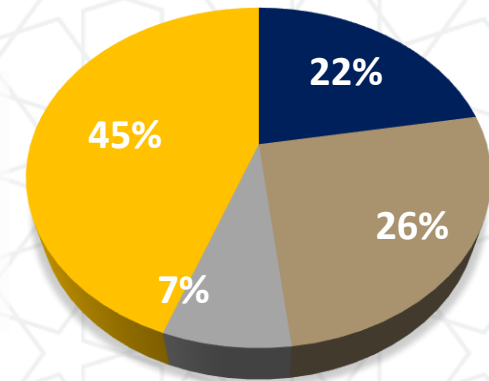
Laboratories

- Recombinant DNA Technologies Laboratory
- Biomedical materials and sensor technologies
- Energy and Materials Laboratory
- Algal Biotechnology and Bioprocess Laboratory
- Biopolymers and Synthetic Vaccines Laboratory
- Plant Biotechnology Laboratory
- Lipid and Biocomposite Laboratory
- Cell Culture and Tissue Engineering Laboratory

Numbers and Statistics

- Laboratory Area per Instructor: 45,9m²
- Number of Students in Graduate Programs: 160
- Distribution of Teaching Staff:

- Professor: 6
- Associate Professor: 7
- Assistant Professor : 2
- Res. Ass./Lecturer. : 12



- YÖK 100/2000
 - PhD Scholarship Program Areas: Biomaterials and Tissue Engineering
 - Number of Students in PhD Scholarship Program: 16



RESEARCH AND DEVELOPMENT, INNOVATION AND ENTREPRENEURSHIP

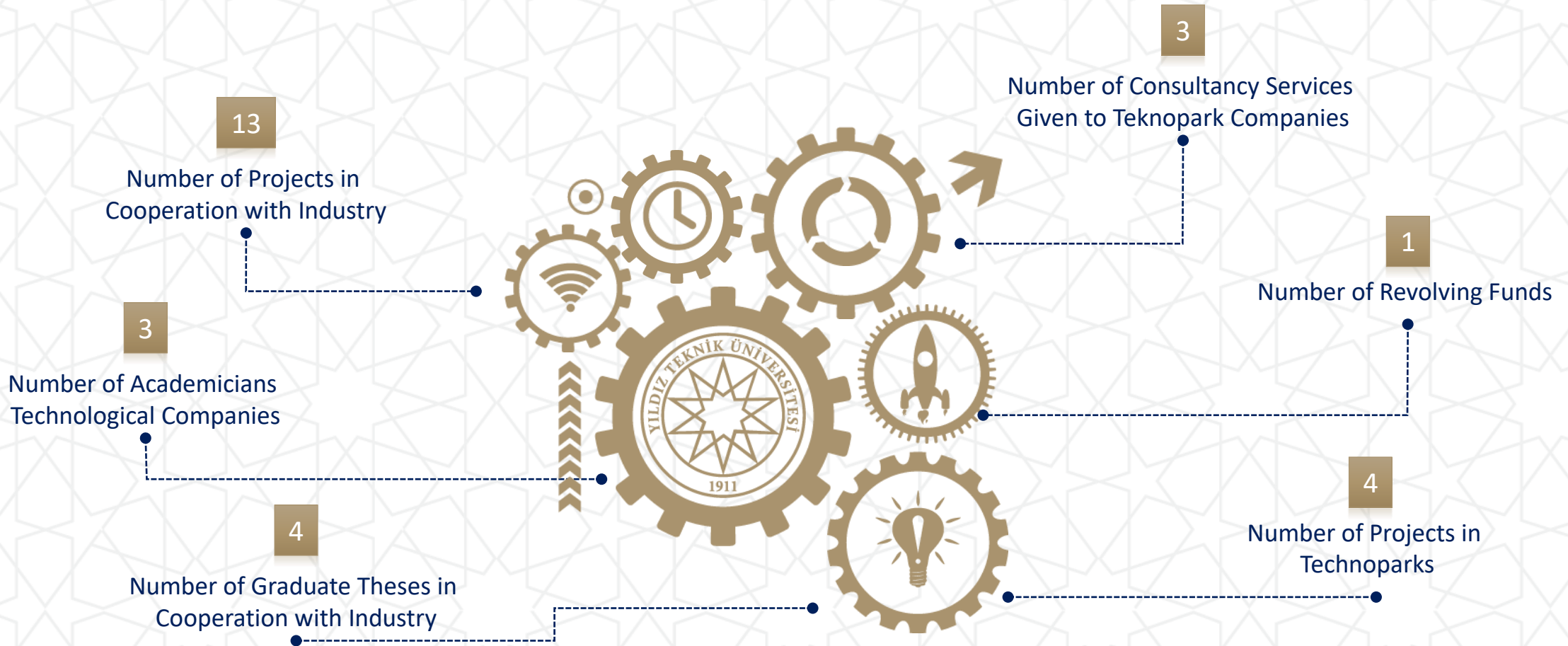
R & D PROJECTS *



* Projects in the last 10 years



RESEARCH AND DEVELOPMENT, INNOVATION AND ENTREPRENEURSHIP UNIVERSITY INDUSTRY COOPERATION





RESEARCH AND DEVELOPMENT, INNOVATION AND ENTREPRENEURSHIP

INNOVATION AND ENTREPRENEURSHIP CAPABILITY



Number of Patent Applications : 11



Number of Patent Documents: 11

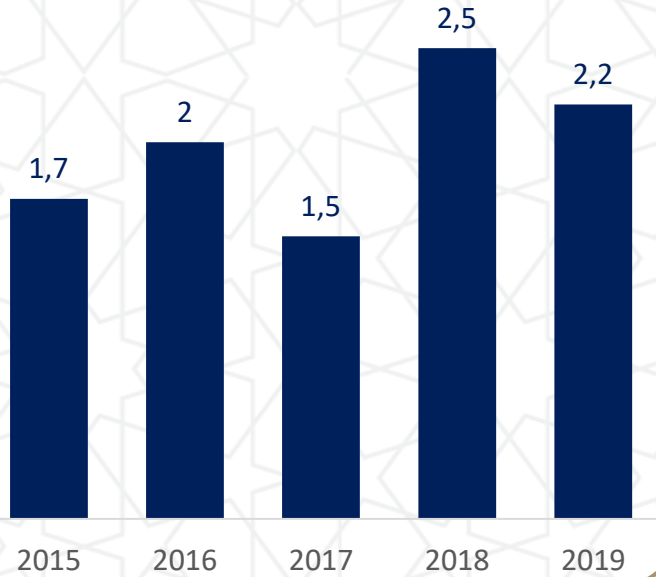


Number of Useful Models and Designs: 3

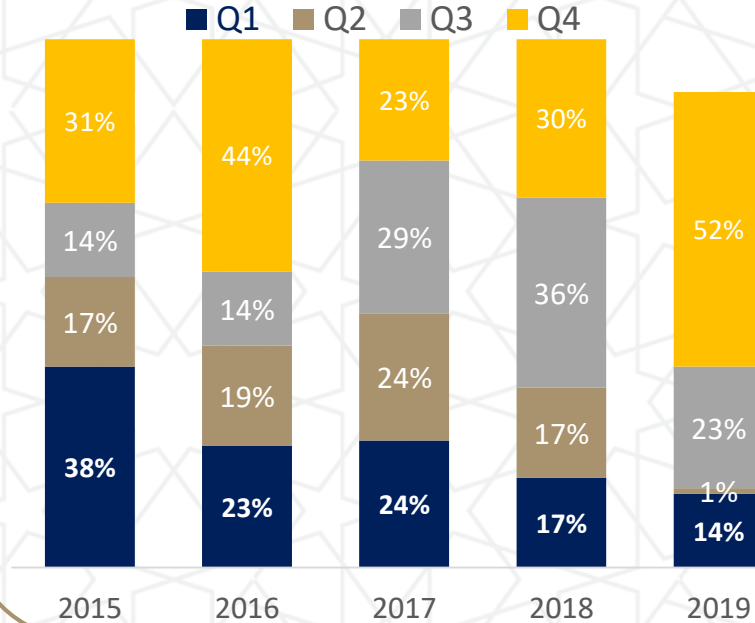


SCIENTIFIC PERFORMANCE INDICATORS RELATED TO QUALIFIED ACADEMIC STUDIES

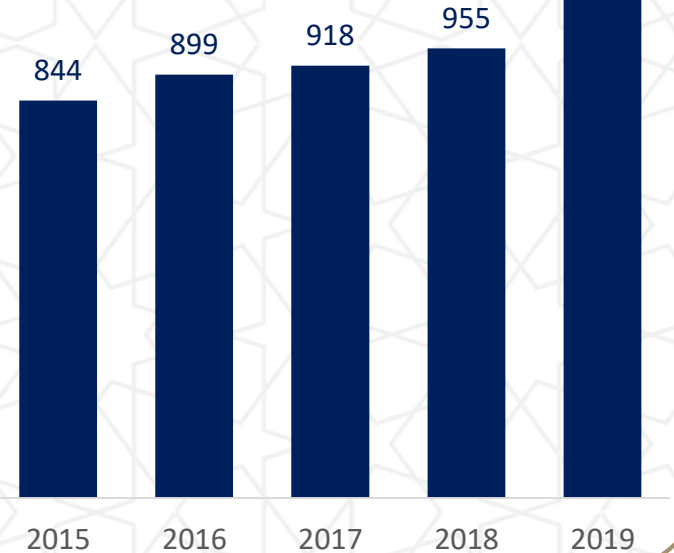
■ Number of Articles in SCI, SSCI and A & HCI Indexed Journals per Faculty Members



SCI, SSCI and A & HCI Indexed Journals



■ Citations in SCI, SSCI and A & HCI Indexed Journals



Average H-Index of Faculty Members

9