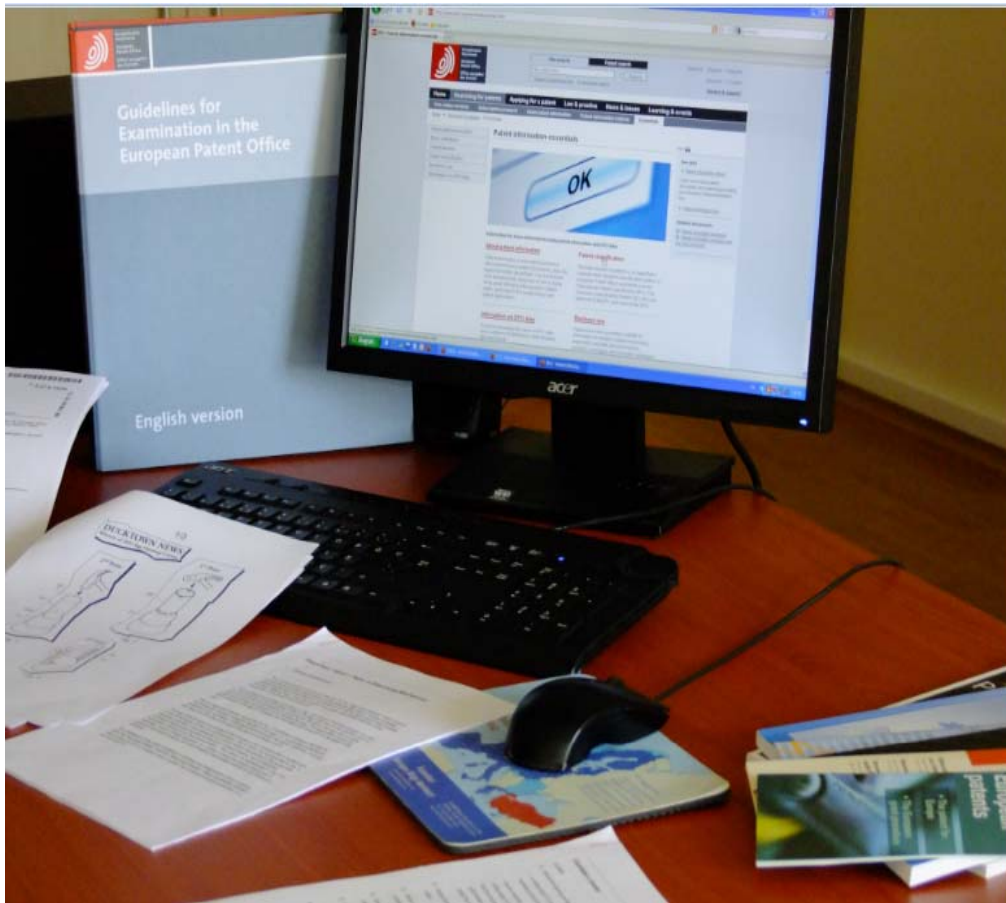


# Teaching Patenting and Licensing for Science and Engineering Students at Turkish Universities

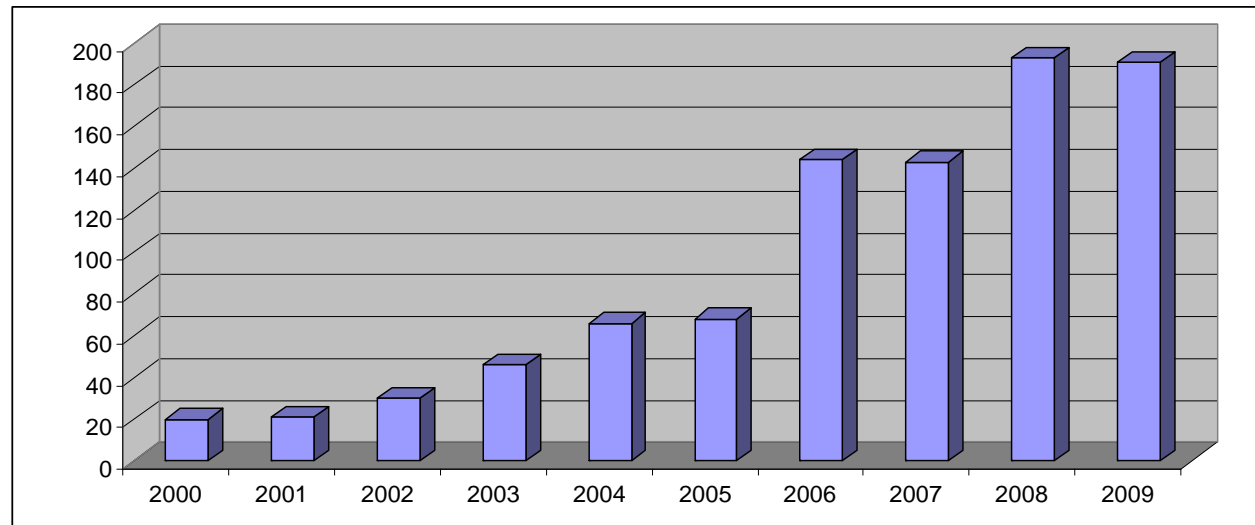


Özgür KULAK  
ozgur.kulak@gmail.com

# Previous Research

## Research funded by the European Patent Office (EPO)

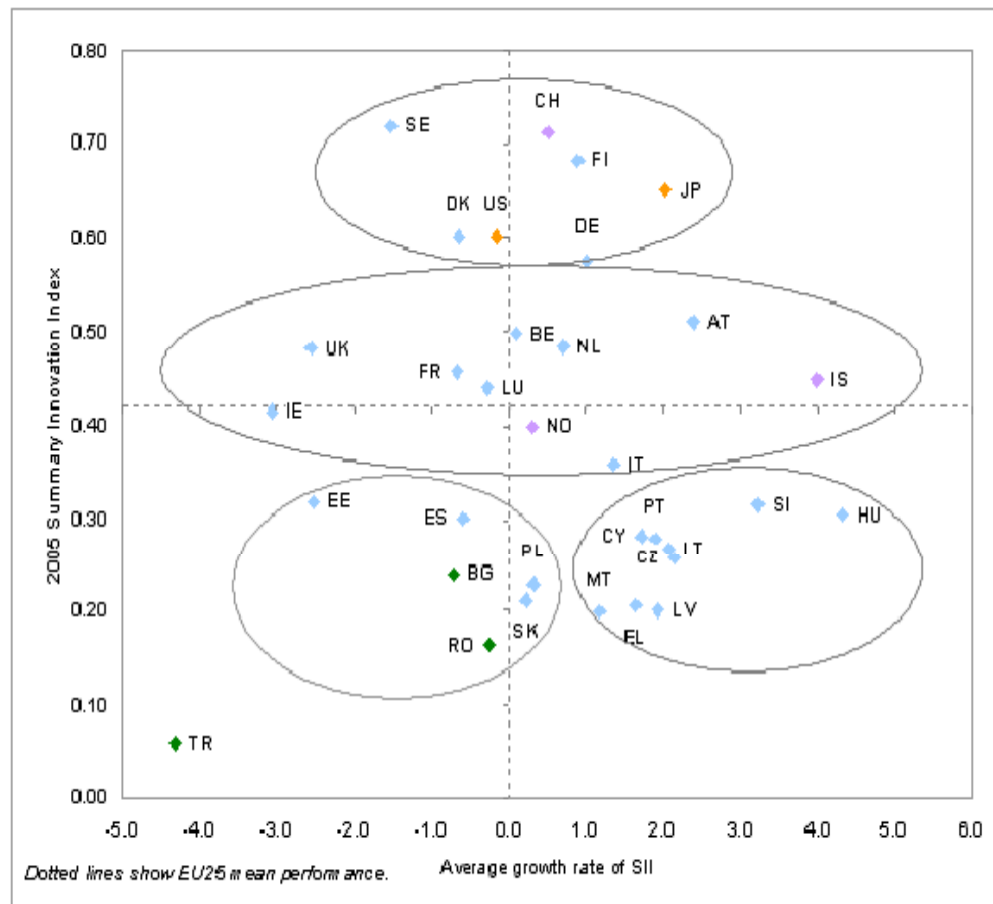
“A model country-level innovation performance tracking platform: A comparative study for the data availability and reliability of possible innovation indicators in Turkey and in Europe”. 2006



*European applications from Turkey*

# Previous Research

Kulak Ö., Kulak E., "Turkey's Patent Market Position in Europe", Proceedings of the Portland International Conference on Management of Engineering & Technology (PICMET), İstanbul, s.967-987, 2006



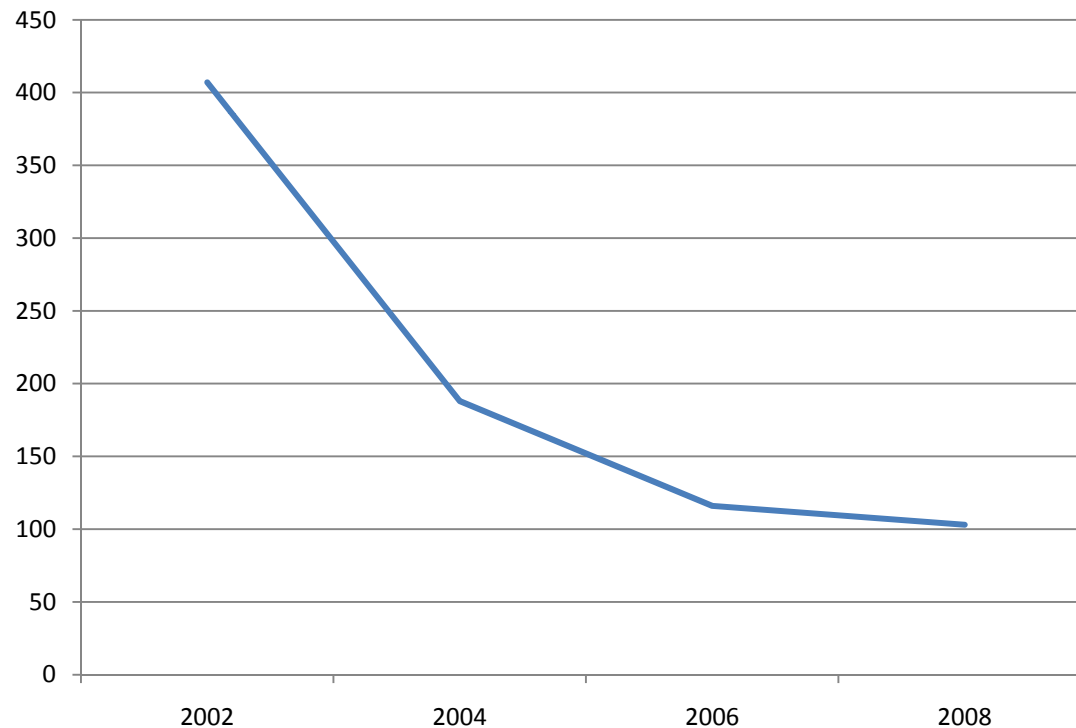
# Previous Research

Kulak, Ö., "Invention Management Office Model for Universities", accepted for the 31th National Congress on Operations Research and Industrial Engineering, YAEM 2011, Sakarya University, 5-7 July 2011.



# Previous Research

Kulak, Ö., Kulak, E., “Invention Management Formation in Engineering Education”, 3.Engineering and Technology Symposium, p.282-289, Çankaya University, Ankara, 29-30 April 2010



*Number of European patent attorneys in Turkey over the years*

# Teaching Patenting and Licensing to Science and Engineering Students

## Current profile in Turkey

- Needed courses and programs
- IP teachers
- Resource availability
- Invention professions

# ***“Technology Licensing for Engineers” Course***



# ***“Technology Licensing for Engineers” Course***

## **Objectives:**

Introducing Intellectual Property Rights (IPR) to engineering students for their future research and professional career. Law, engineering and management knowledge will be merged and will be practically applied as real IPR productions throughout the course.

# ***“Technology Licensing for Engineers” Course***

**Level of the course:** Undergraduate

**Prerequisite:** -

**Teaching method:** Lectures, applications, case studies, role playing

**Instructor:** Asst. Prof. Dr. Özgür KULAK

# ***“Technology Licensing for Engineers” Course***

**Evaluation:** Homework and project assignments



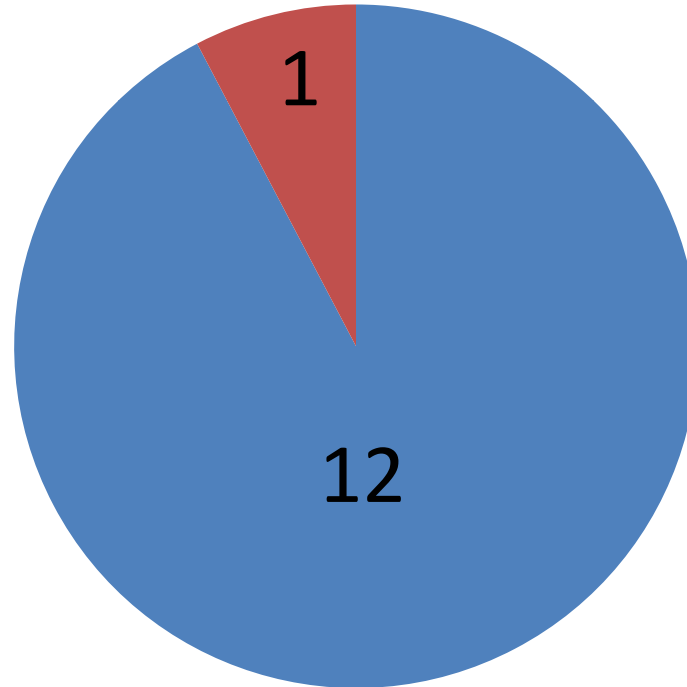
# ***“Technology Licensing for Engineers” Course***

## **Topics covered:**

- Intellectual Property Rights
- National and International Patent Procedures
- Patent Law Essentials
- Technology Development Strategy
- Engineering and Science Prior Art
- Filing a Patent Application
- Inventor-Attorney-Examiner Communications
- Intellectual Right Infringement
- Patent Value Estimate and Patent Portfolio Strategy
- Licensing and Startup Establishment
- Macro Level Technology Management
- IP Professions
- Role Playing-complete IPR Flow

# Questionnaire Results

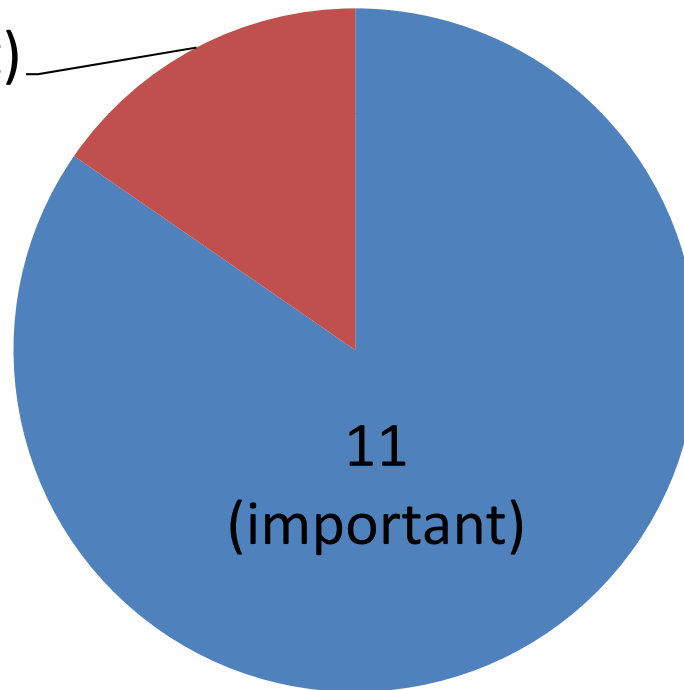
Prior IP education



# Questionnaire Results

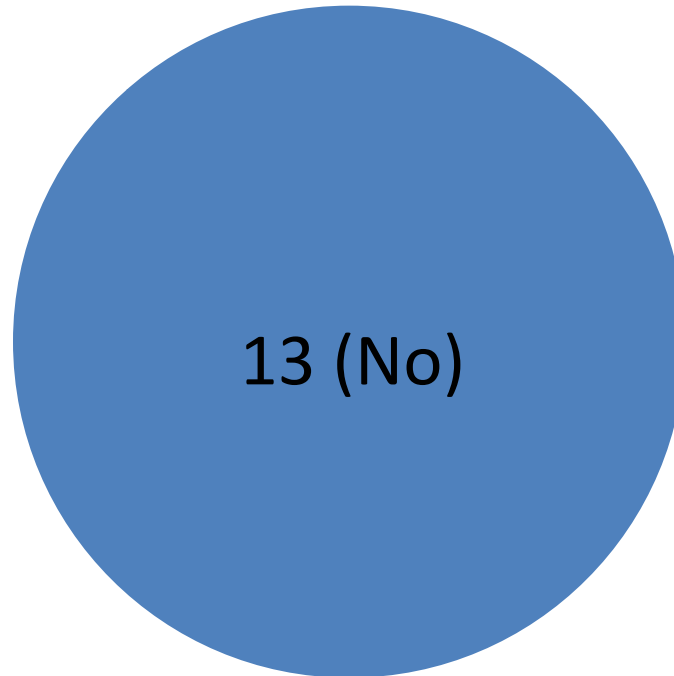
Importance of the course for Engineering students

2 (very  
important)



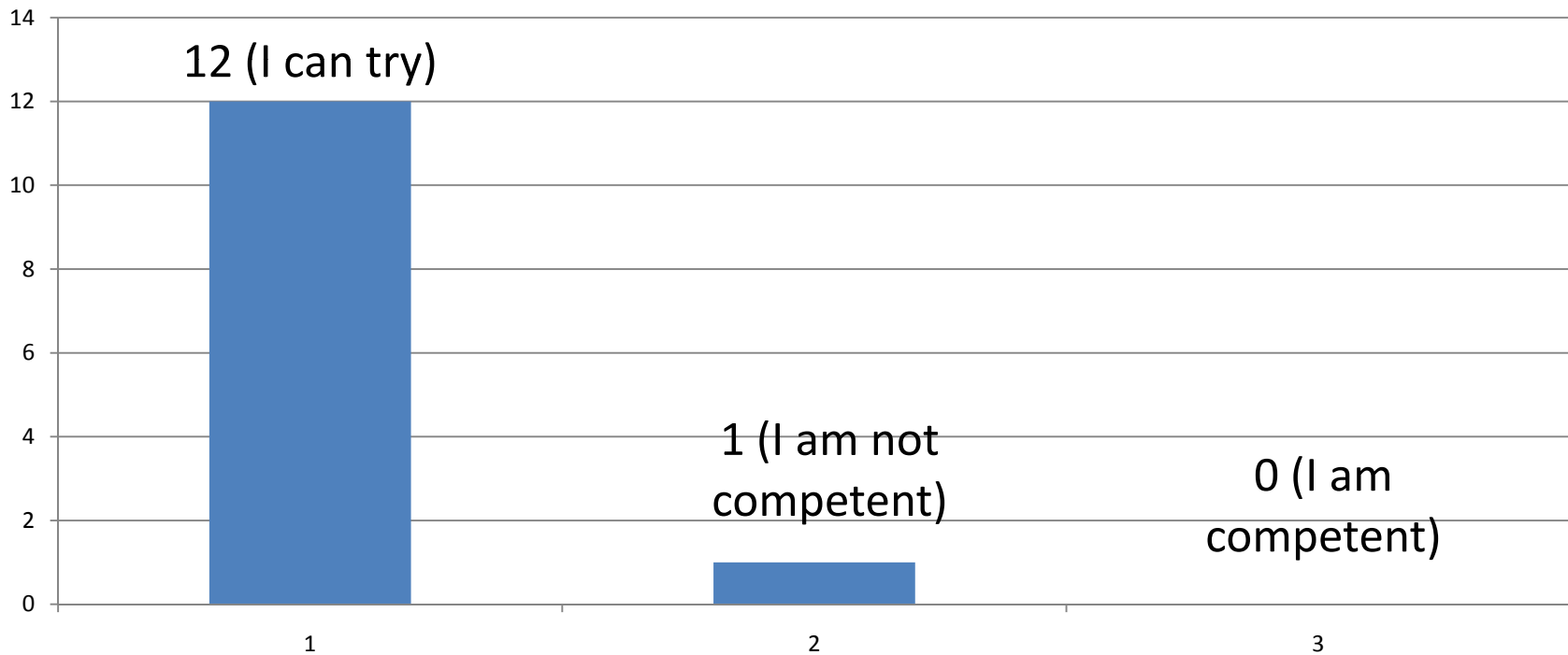
# Questionnaire Results

**Prior patent application**



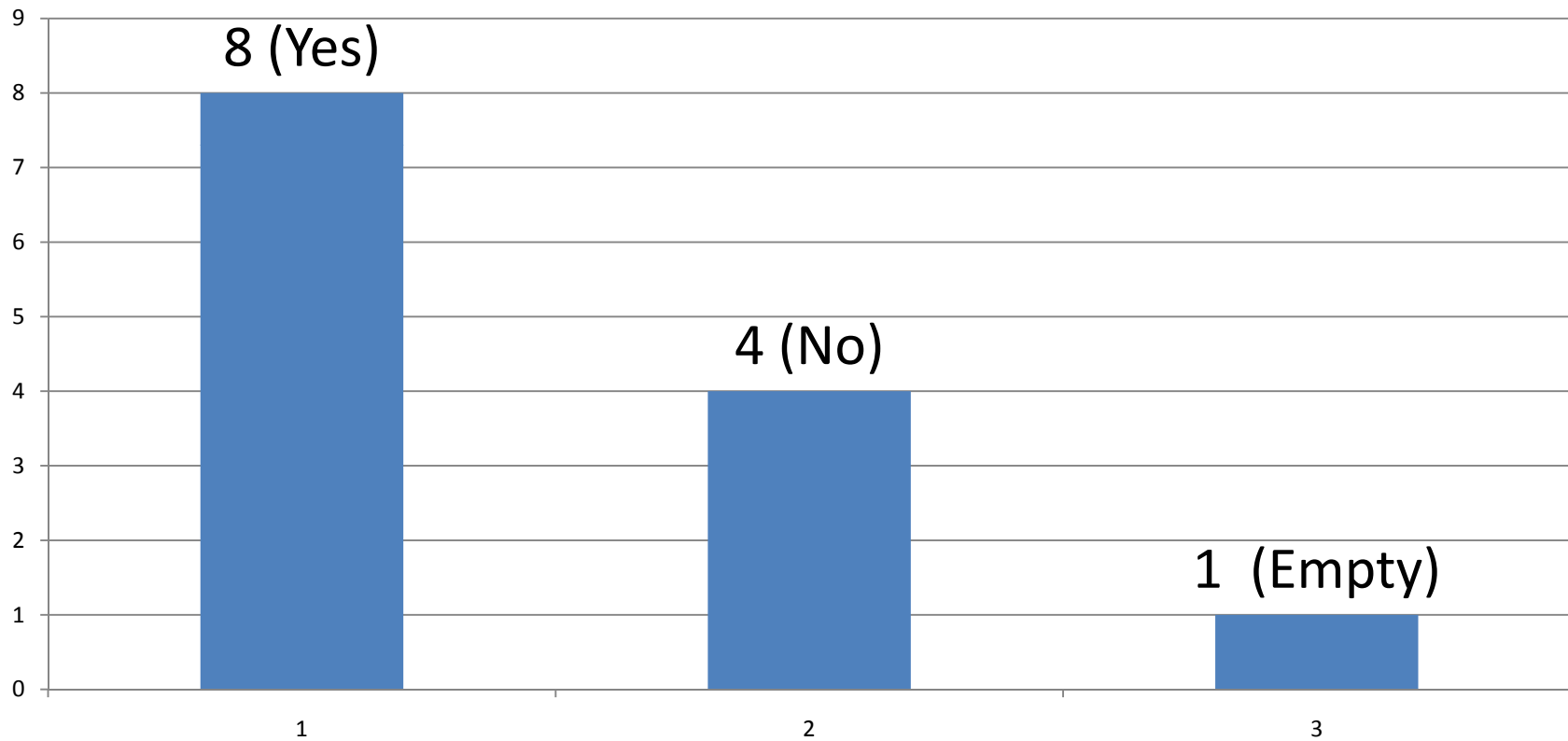
# Questionnaire Results

**Feeling competent in patent application  
after taking the course**



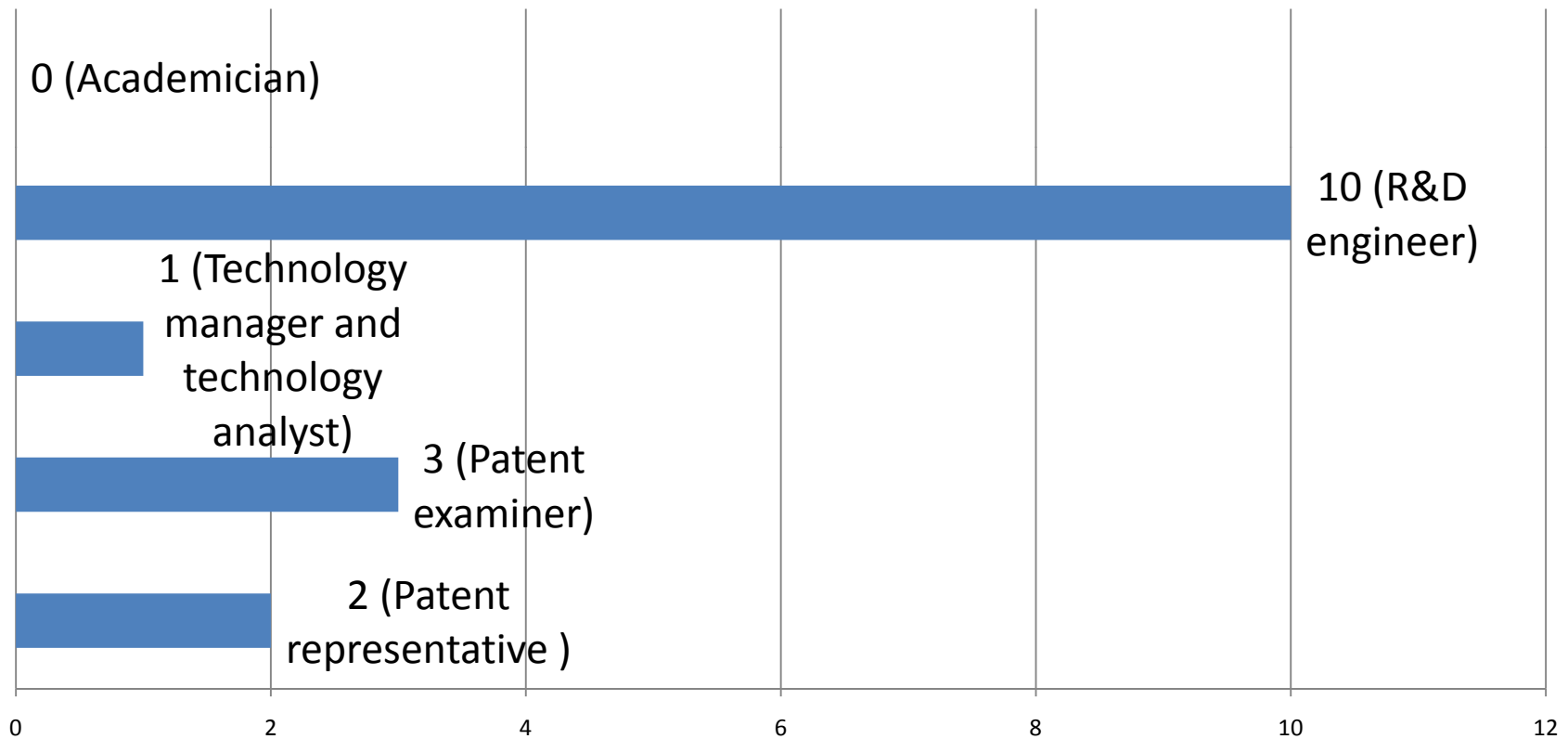
# Questionnaire Results

## Career in IP



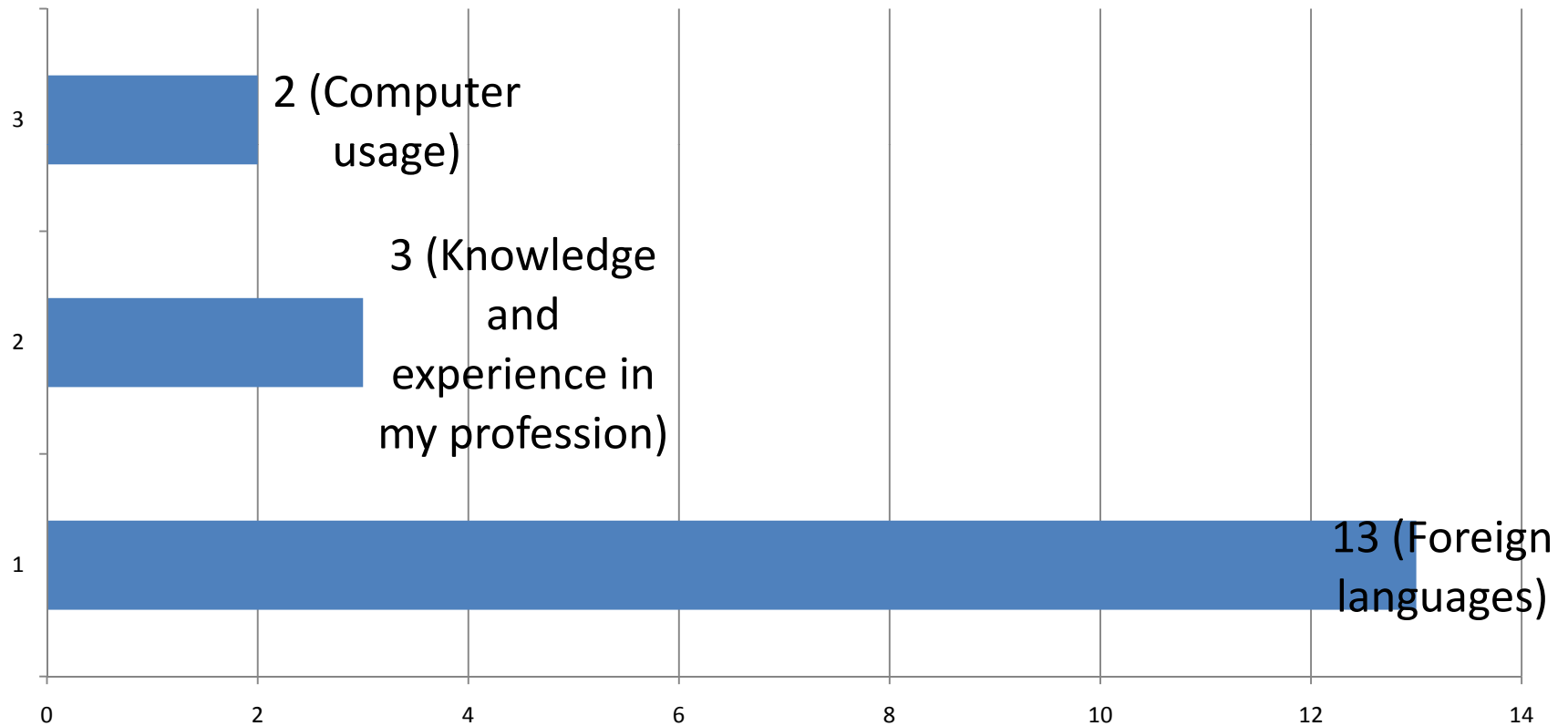
# Questionnaire Results

## Preference of IP professions



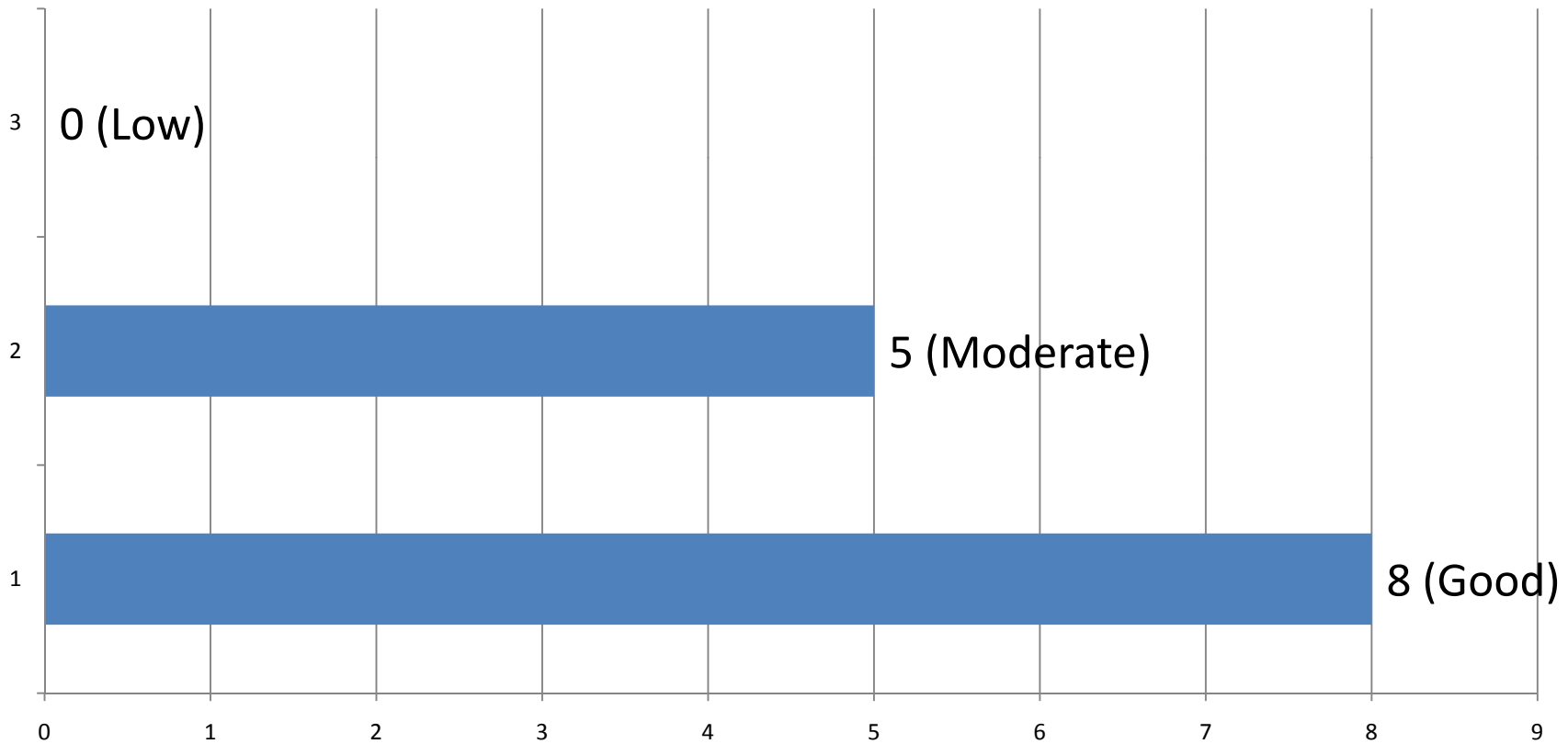
# Questionnaire Results

## Qualifications needed to develop



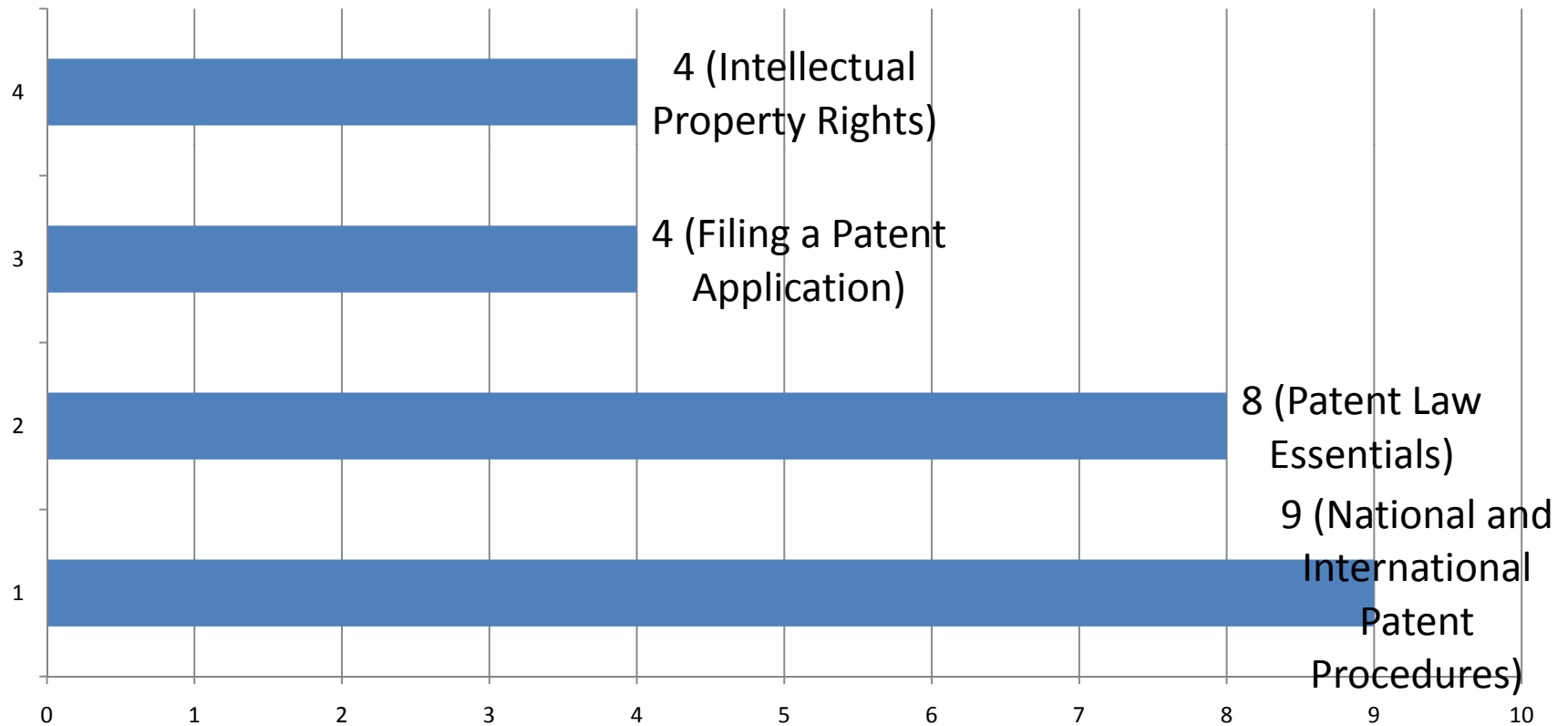
# Questionnaire Results

Contribution of the course to the IP level of the Turkey



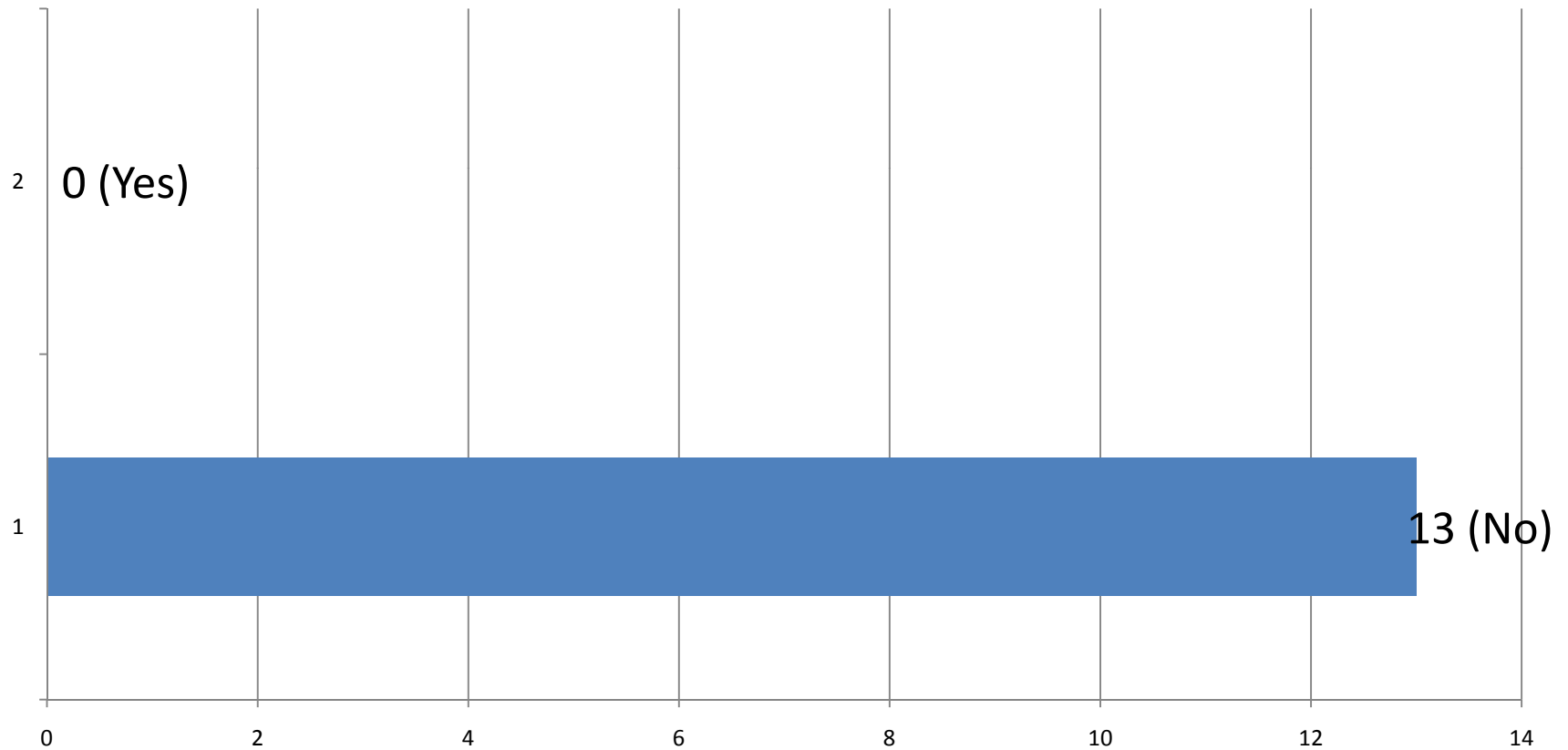
# Questionnaire Results

## Most needed 4 topics for Engineers



# Questionnaire Results

Knowing Engineering students taking this type of course in other Universities



Thank you for your attention



# Questions and discussion

