



# RASPBERRY PI IMPLEMENTATION REPORT

By:

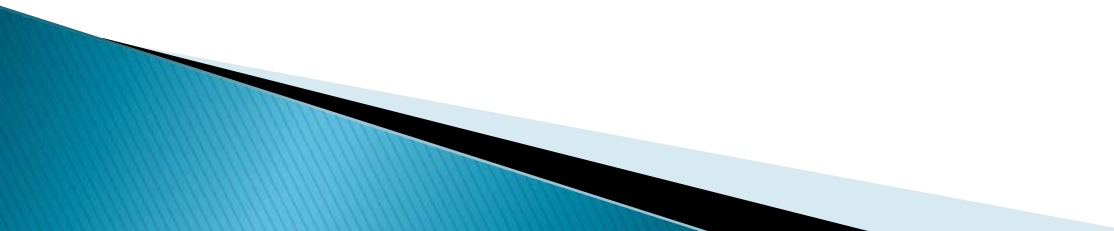
Meru University of Science and  
Technology

At

Safari Park, Nairobi

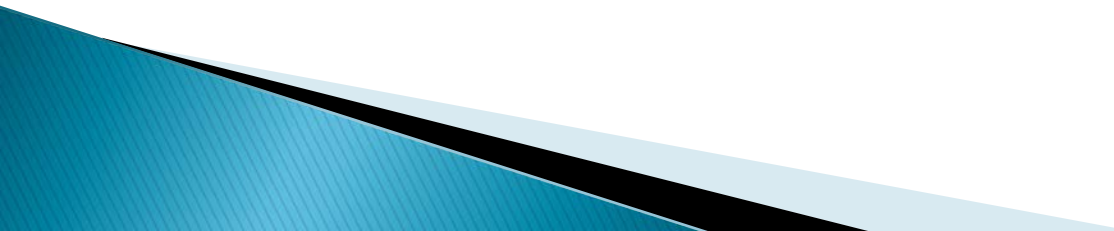
30<sup>TH</sup> Oct 2015

# Presentation Outline

1. Introduction
  2. Sensitization
  3. Teaching activities
  4. Research
  5. Projects and Exhibitions
  6. Challenges
  7. Students' evaluation
  8. Video documentary
  9. Recommendation
- 

# Introduction

## Team Members:

1. Daniel Maitethia (Team Leader)
  2. Abkul Orto
  3. Wycliffe Rono
  4. Kinuthia Mugi
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# Sensitization





# Teaching Activities



# Teaching Activities





# Research



**Crop stress monitoring setup**

# Research



**Crop Stress monitoring**



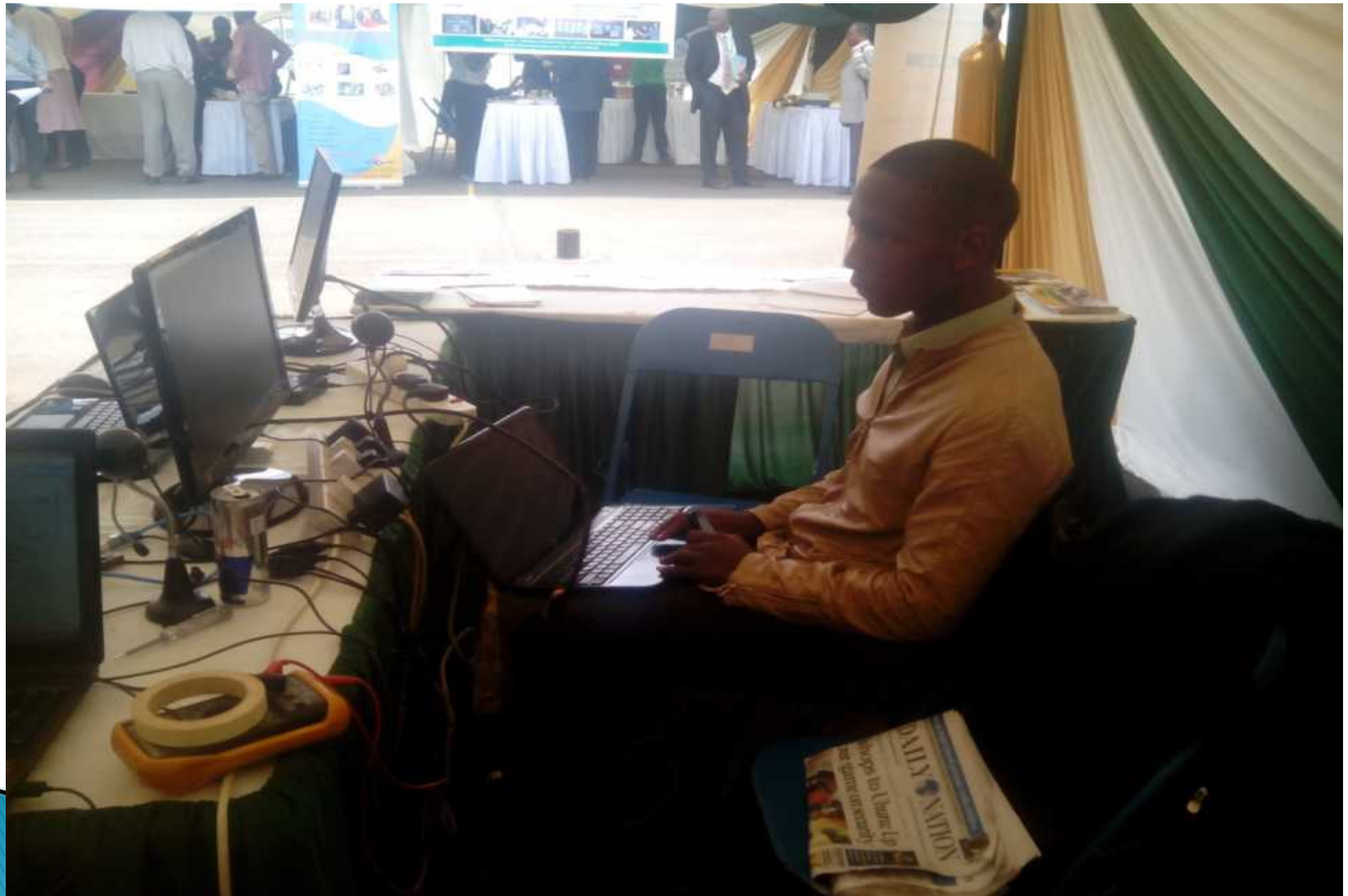
# Projects and Exhibitions

Machakos CUE exhibition (17<sup>th</sup> – 20<sup>th</sup> March 2015)



# Projects and Exhibitions

Nairobi NACOSTI Exhibition Week (11<sup>th</sup> – 15<sup>th</sup> May 2015)



# Projects and Exhibitions

## Meru ASK Show (June 2015)

Learn with the Rasp!!

*Hey There! We are just about to begin learning using the raspberry pi. This will be a very enjoyable activity which you will all like*

**Before we continue we have to make sure that the teacher has approved this so enter your name and your teachers name below**

Your Name/ Group name

Teachers Name

Now whats left is for us to pick a subject...just click on any one!

*Mathematics*

*Science*

*English*

*Social Studies*

*Kiswahili*

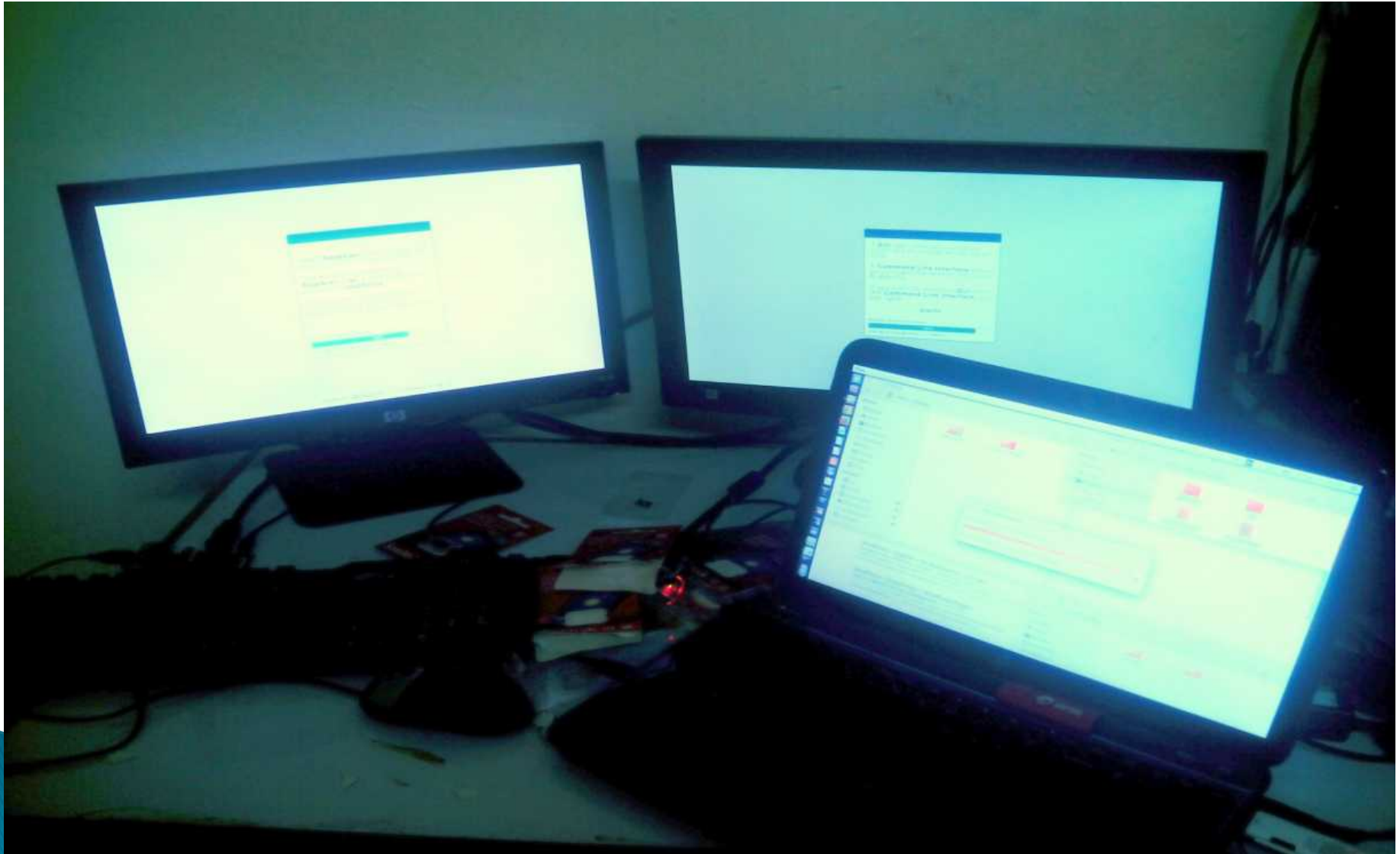
*Technology*

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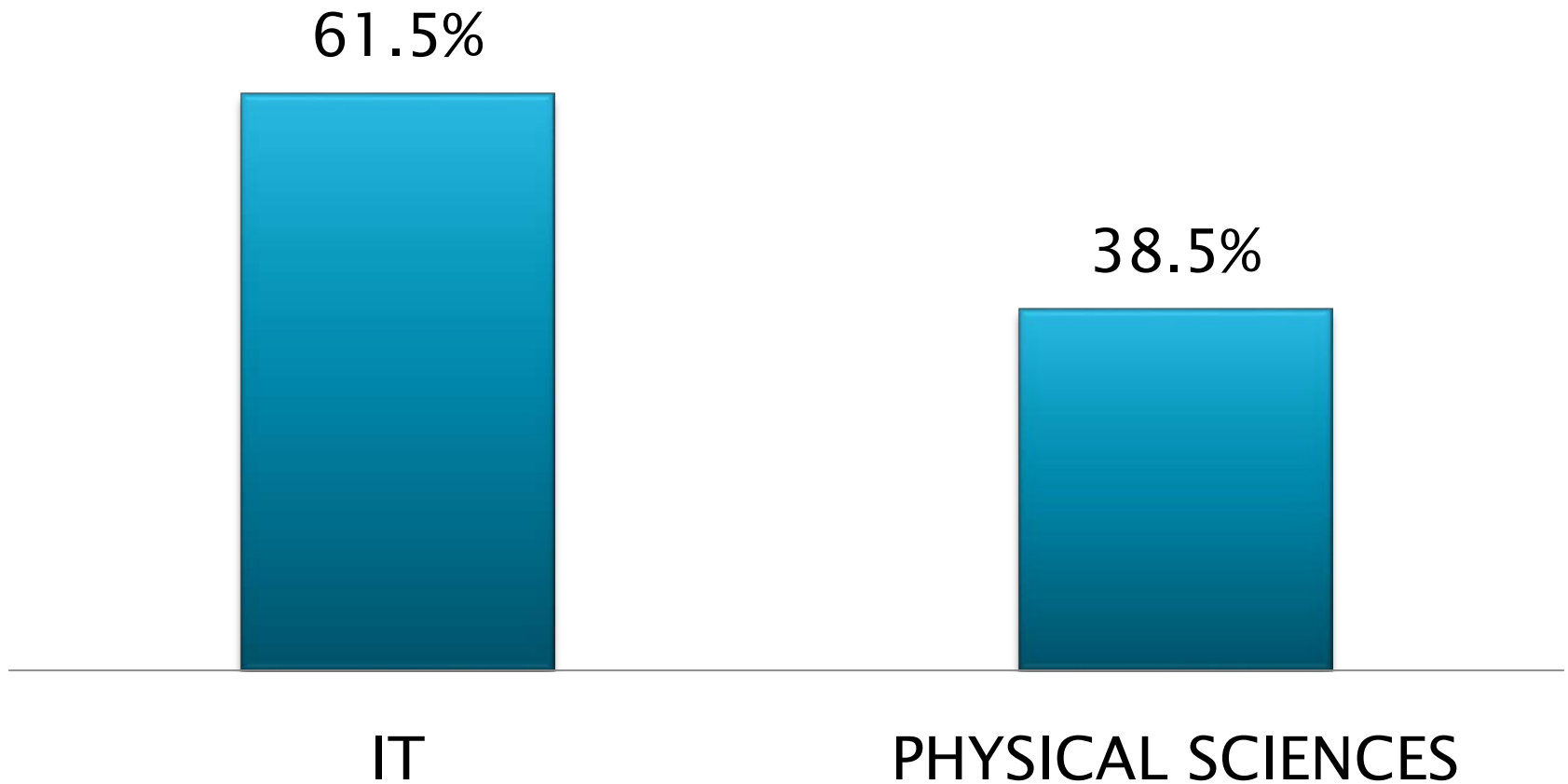
# Projects and Exhibitions

Meru Investment Conference (25<sup>th</sup> -27<sup>th</sup> June)

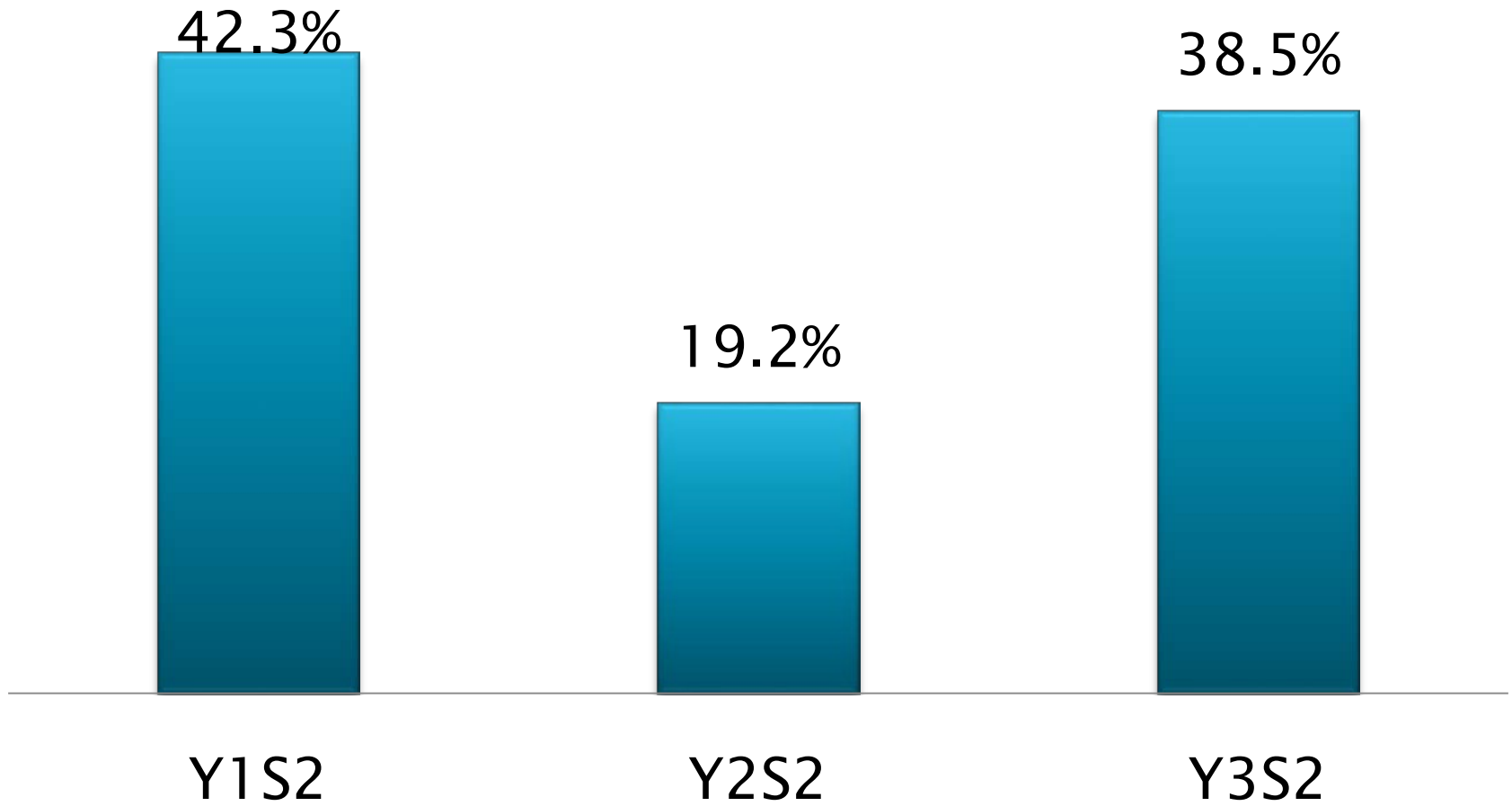


# Results

## Students Trained Departments

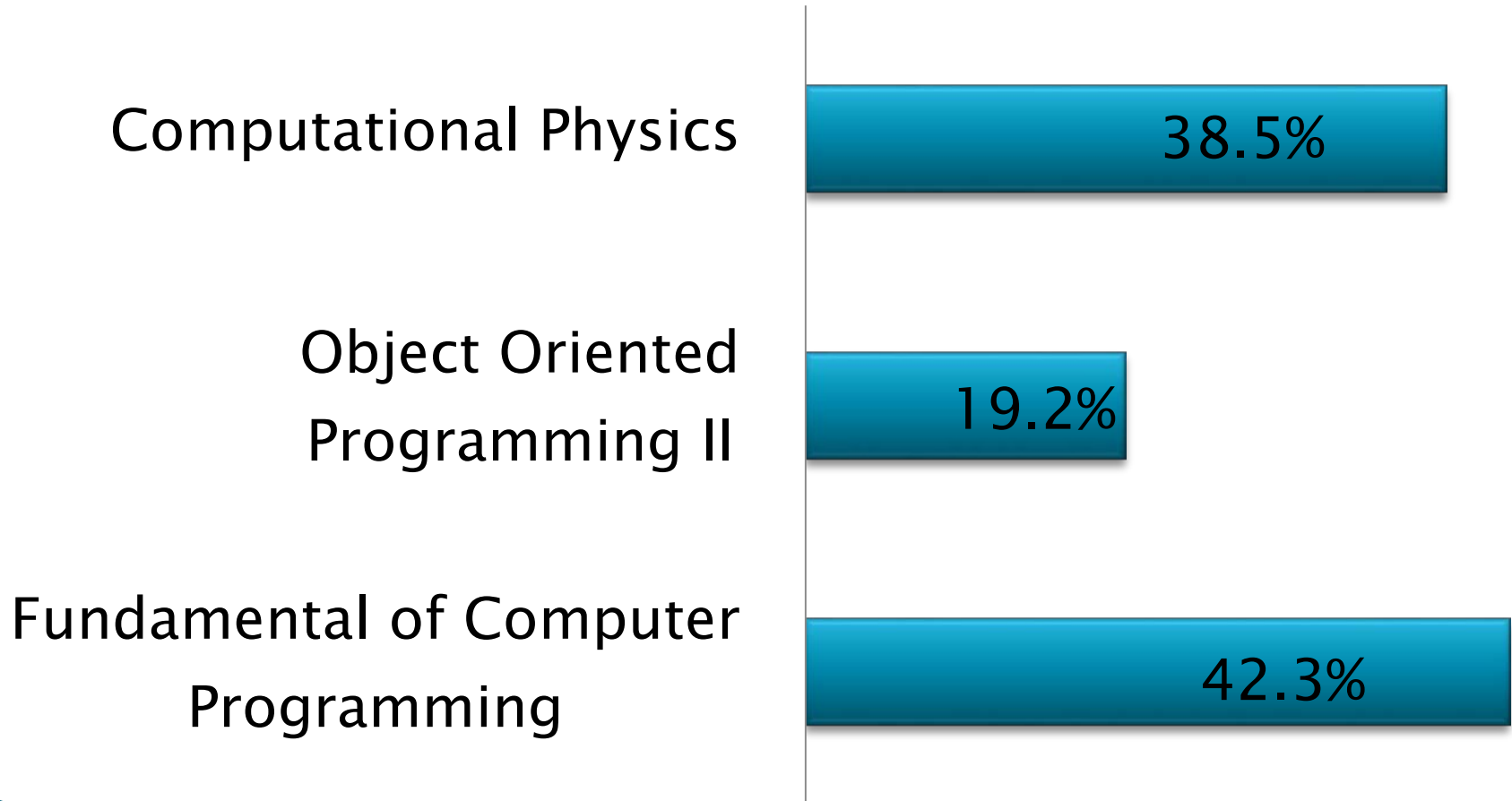


# Year of Study

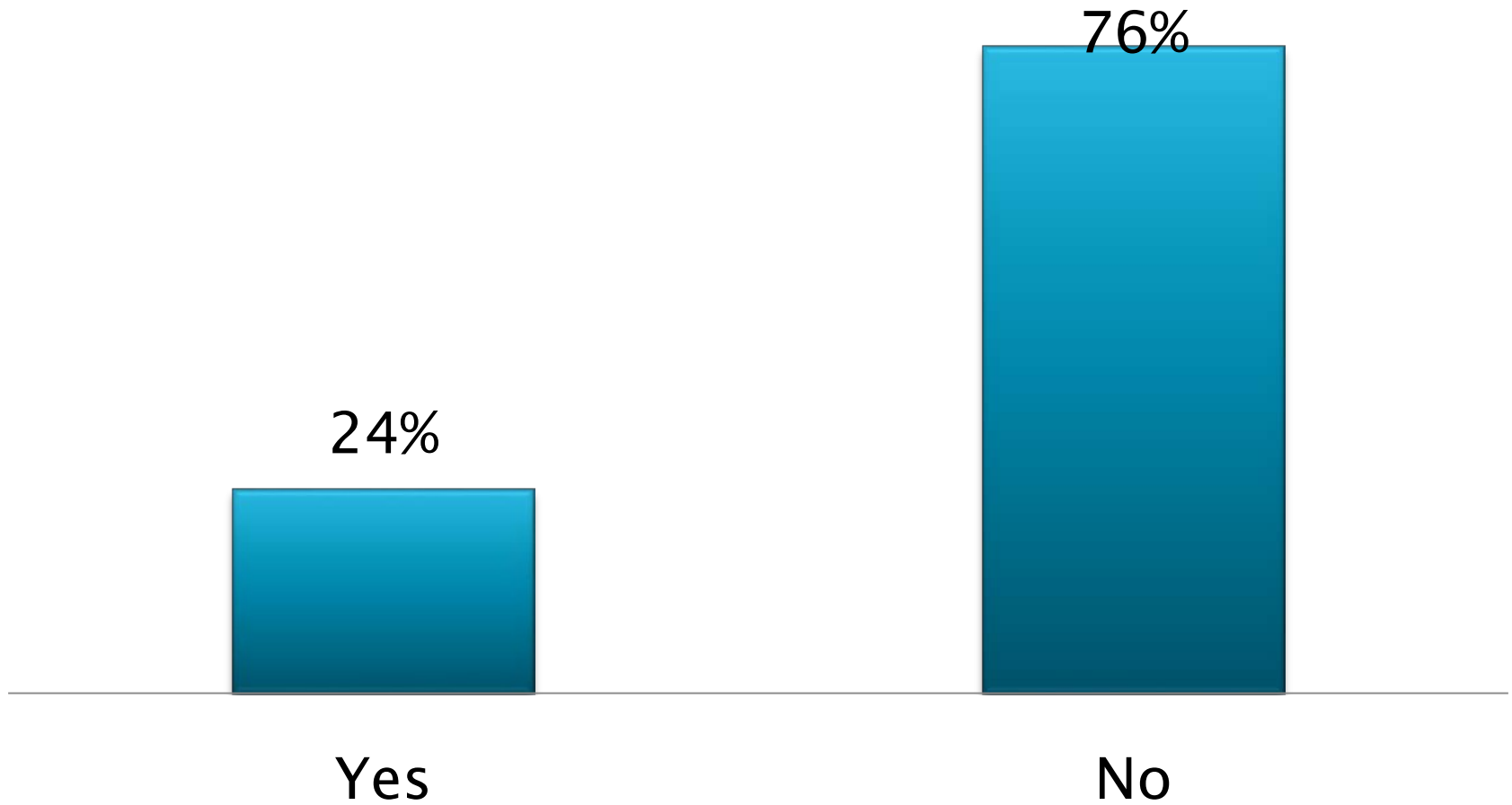




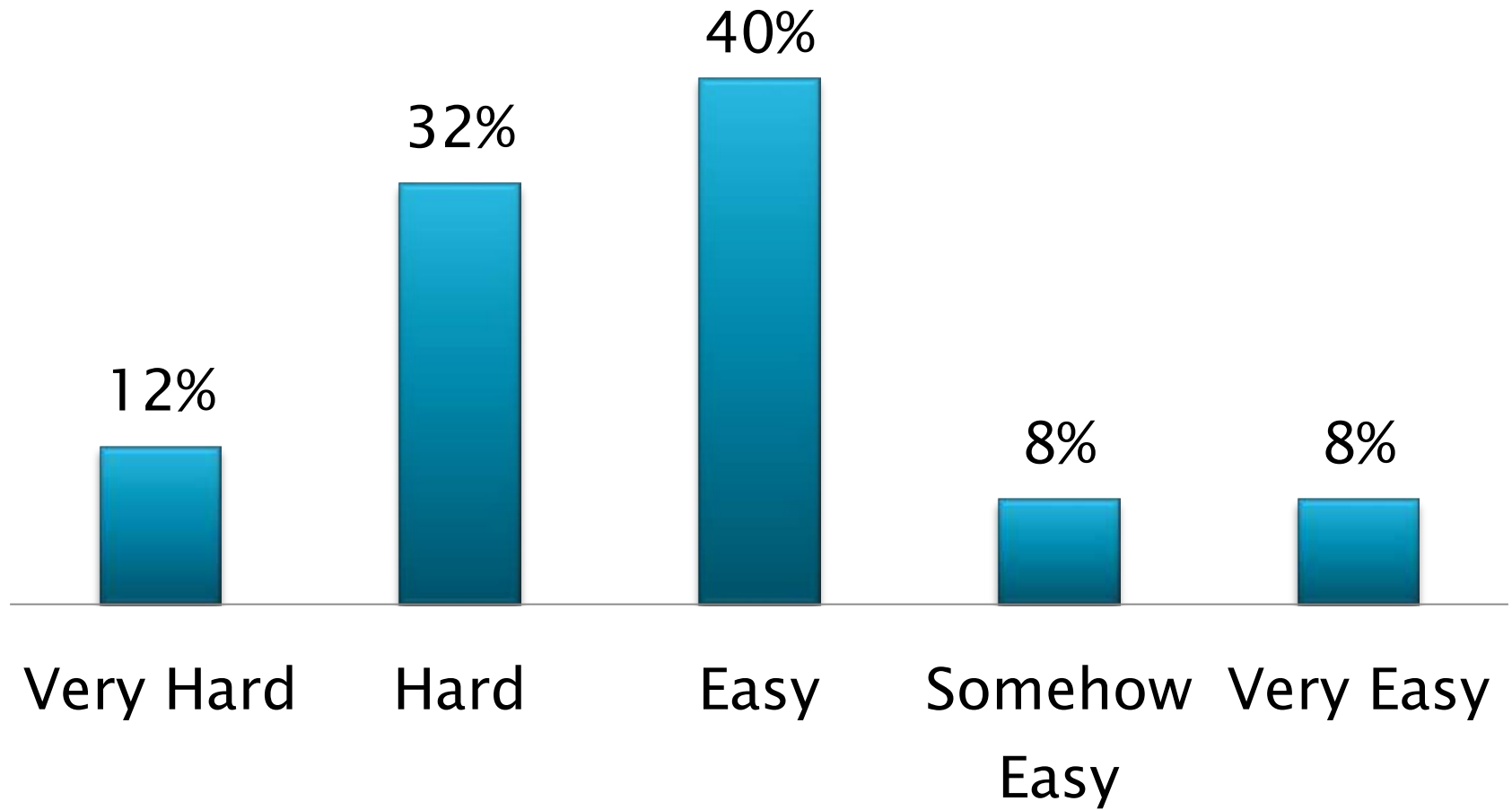
# Units Taught



# Students Feedback Previous Knowledge of RPi

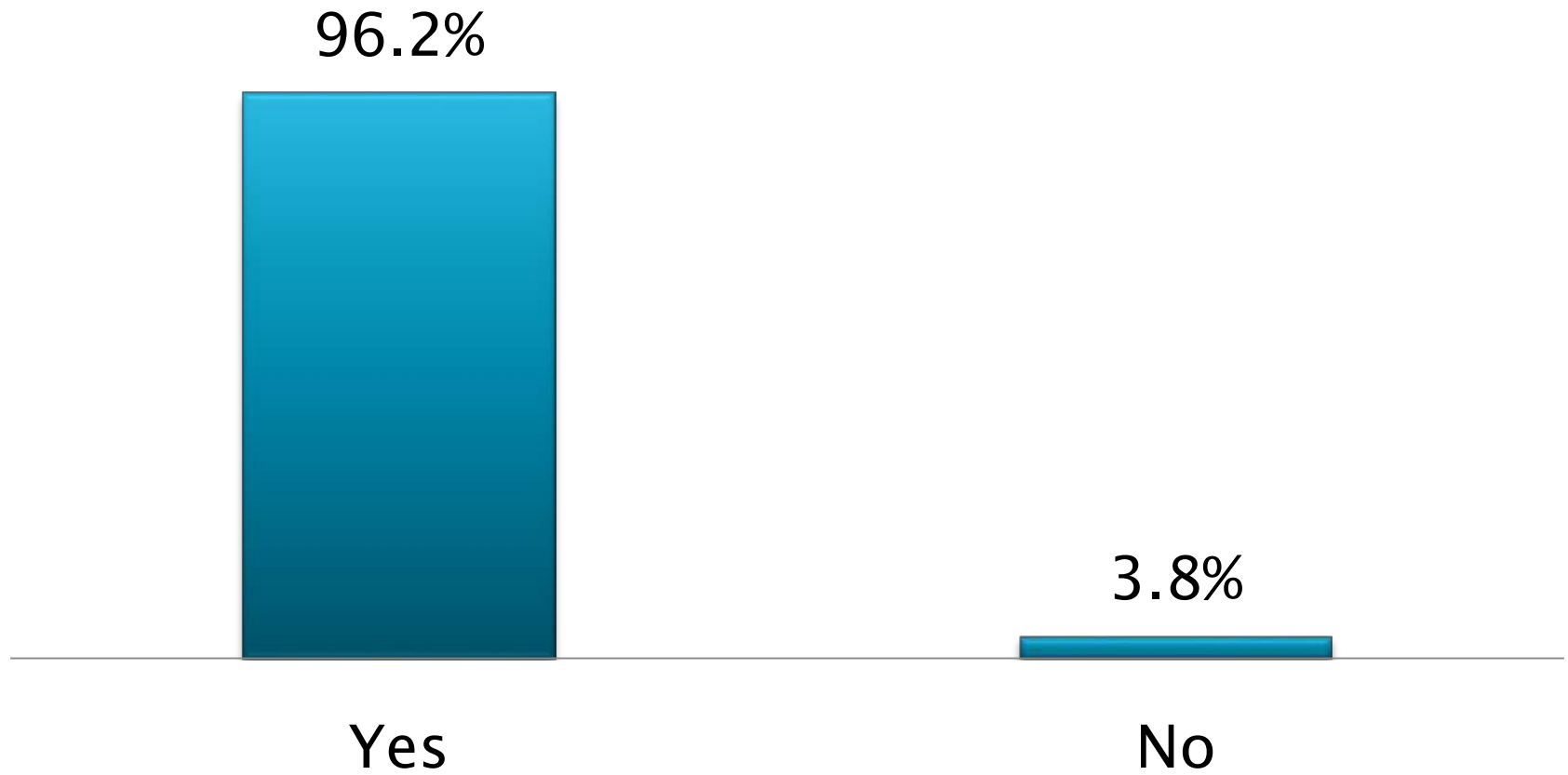


# Ease of Use

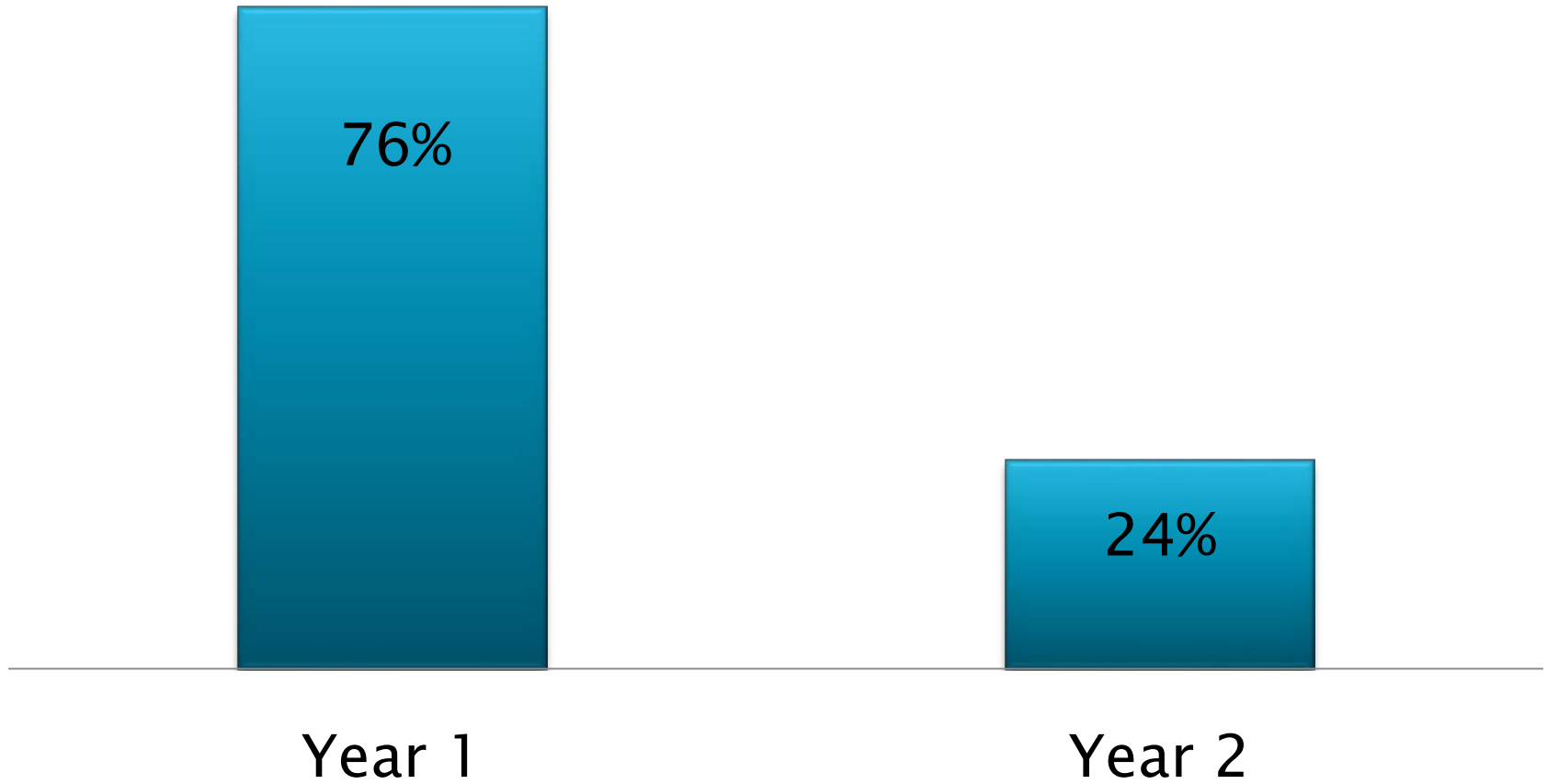




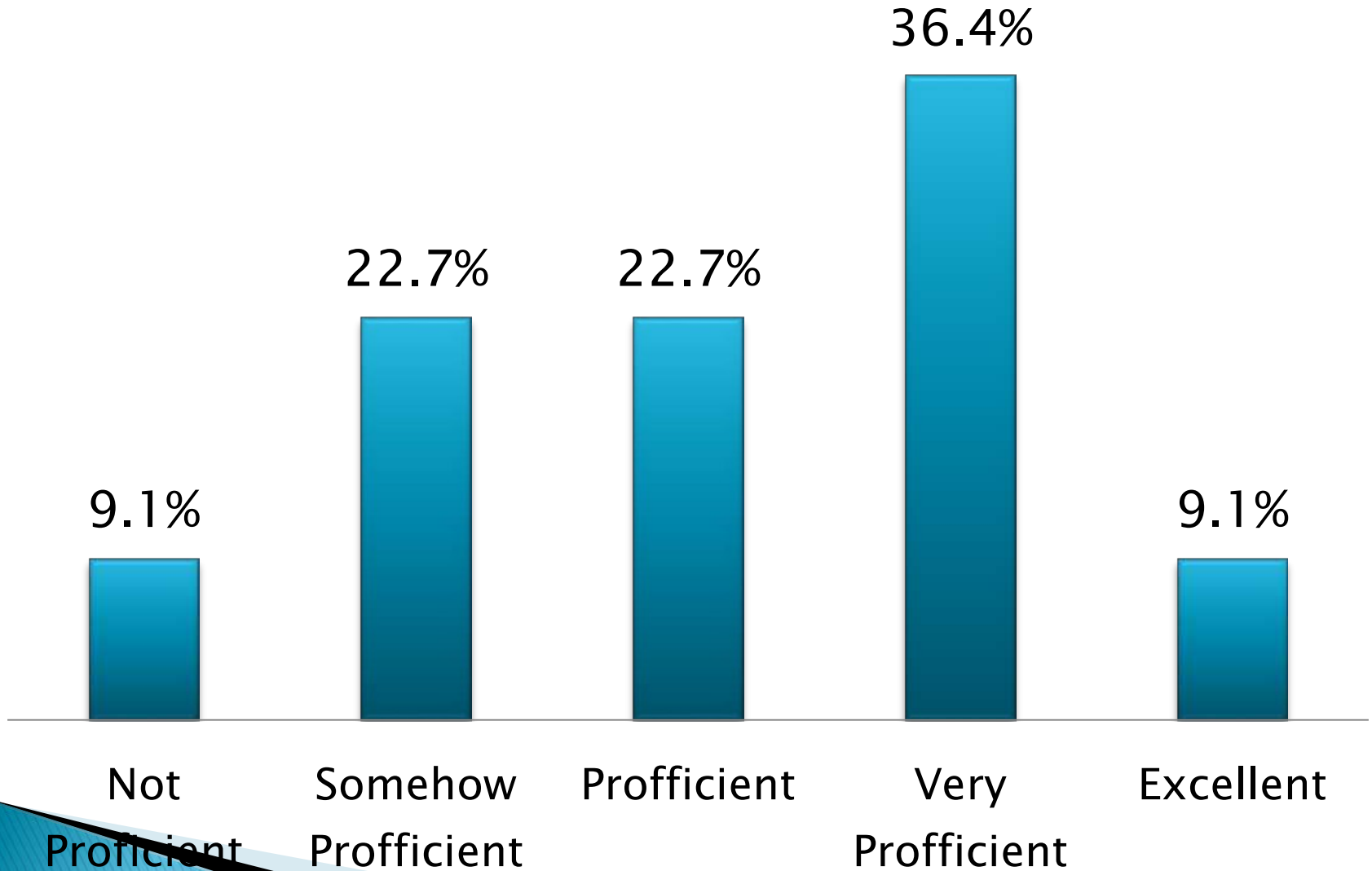
# Usefulness of RPi



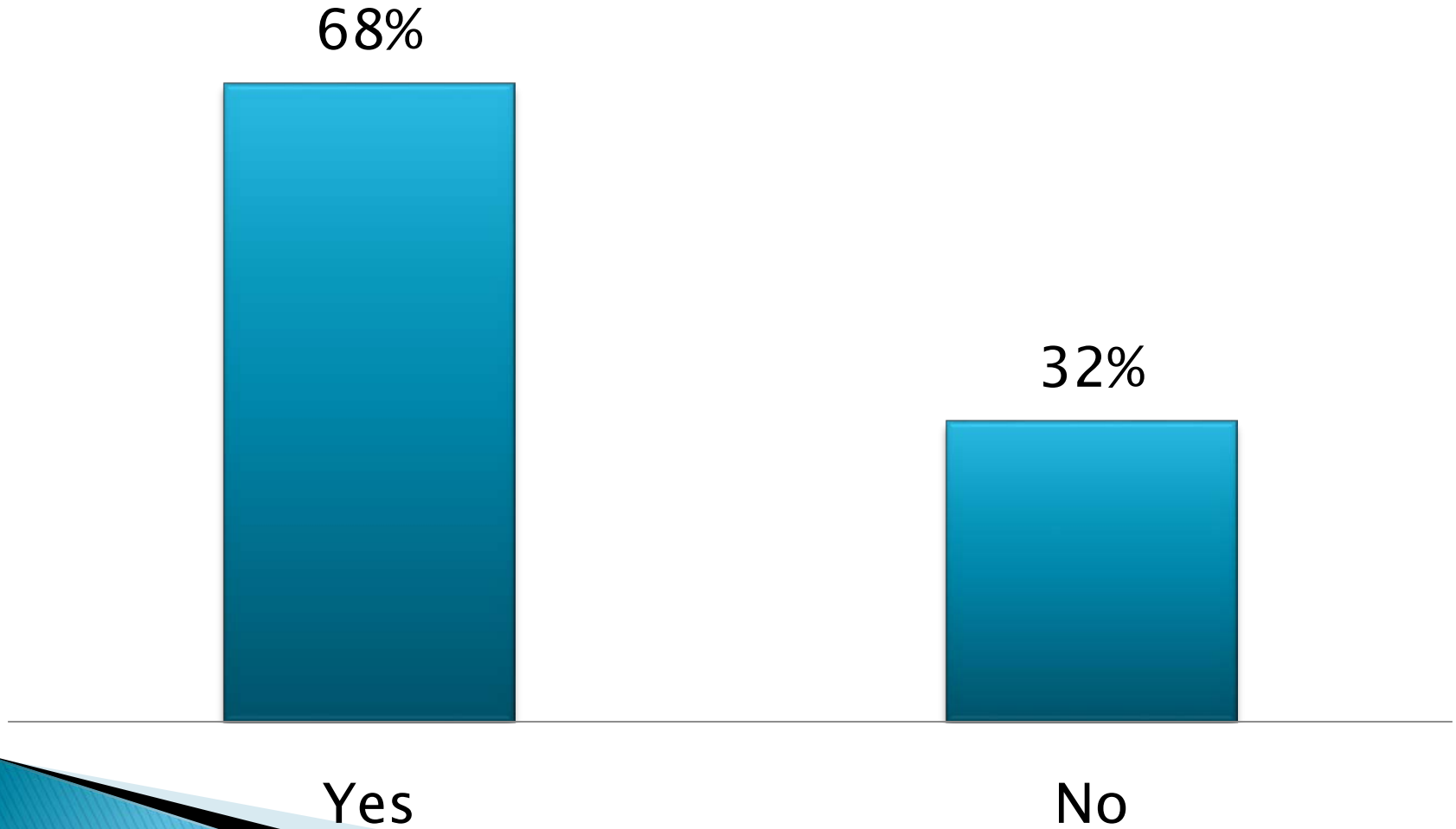
# Recommended Year of Study



# Proficiency After Training

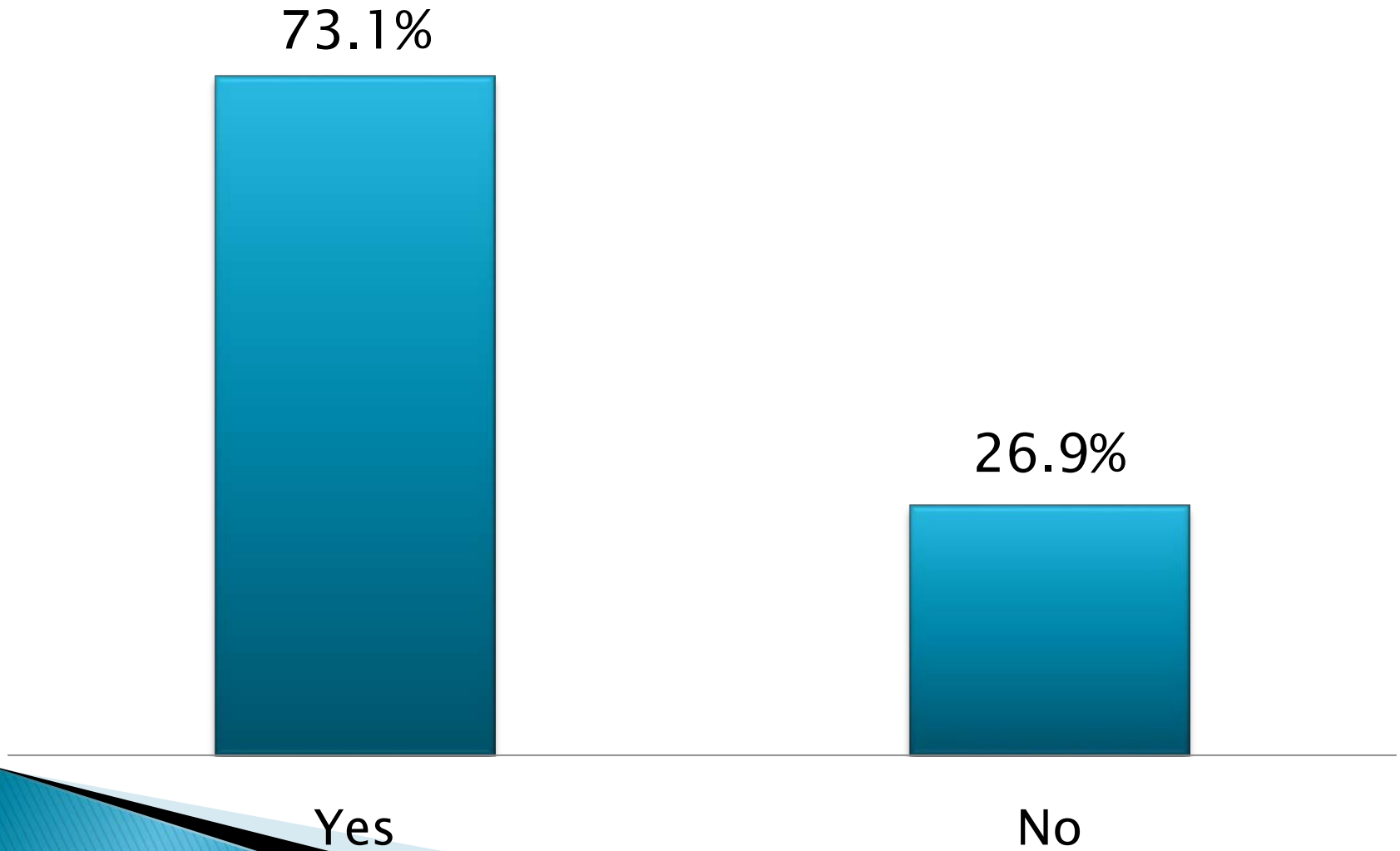


# Use of RPi in Other Units



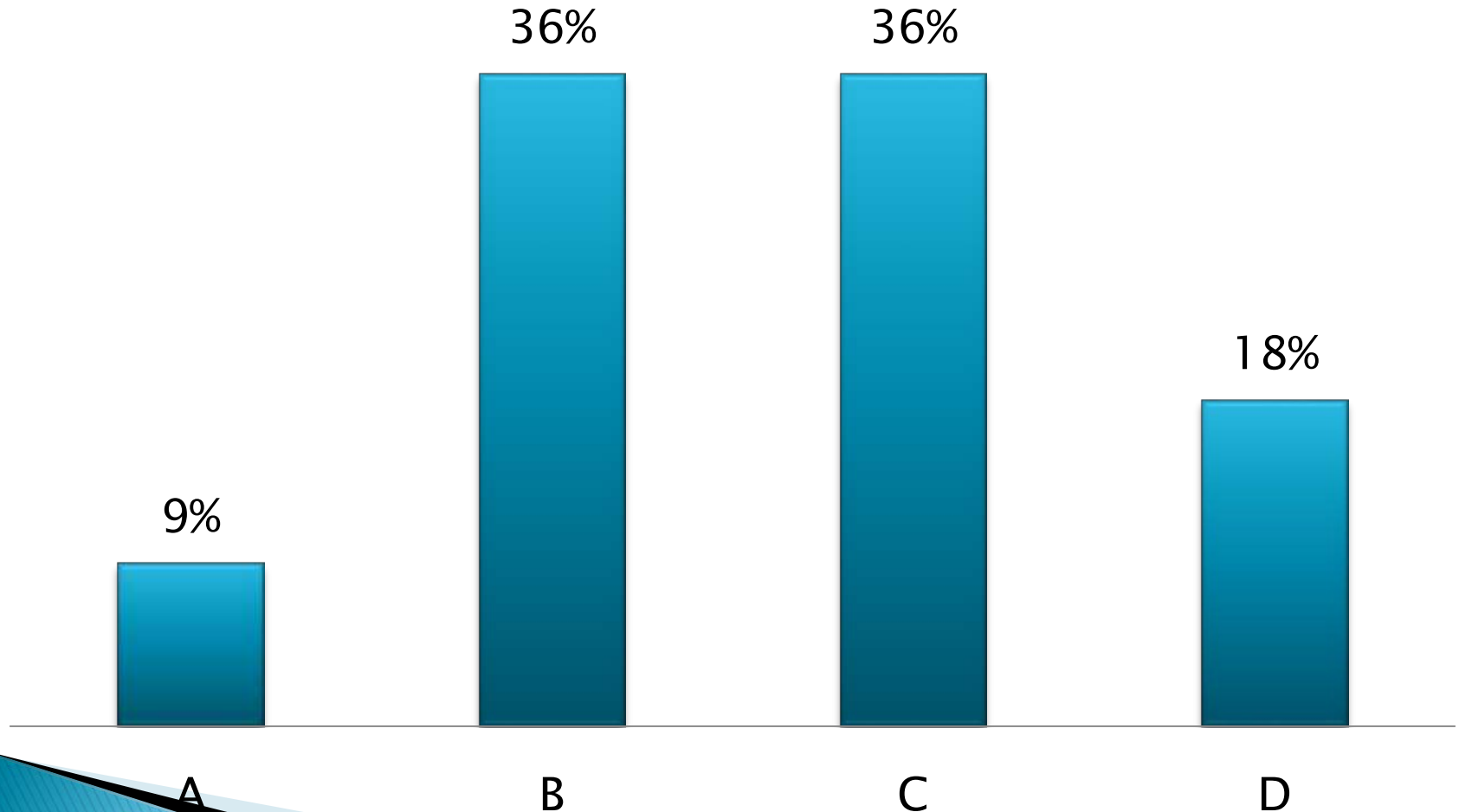


# Intention to use RPi in Future



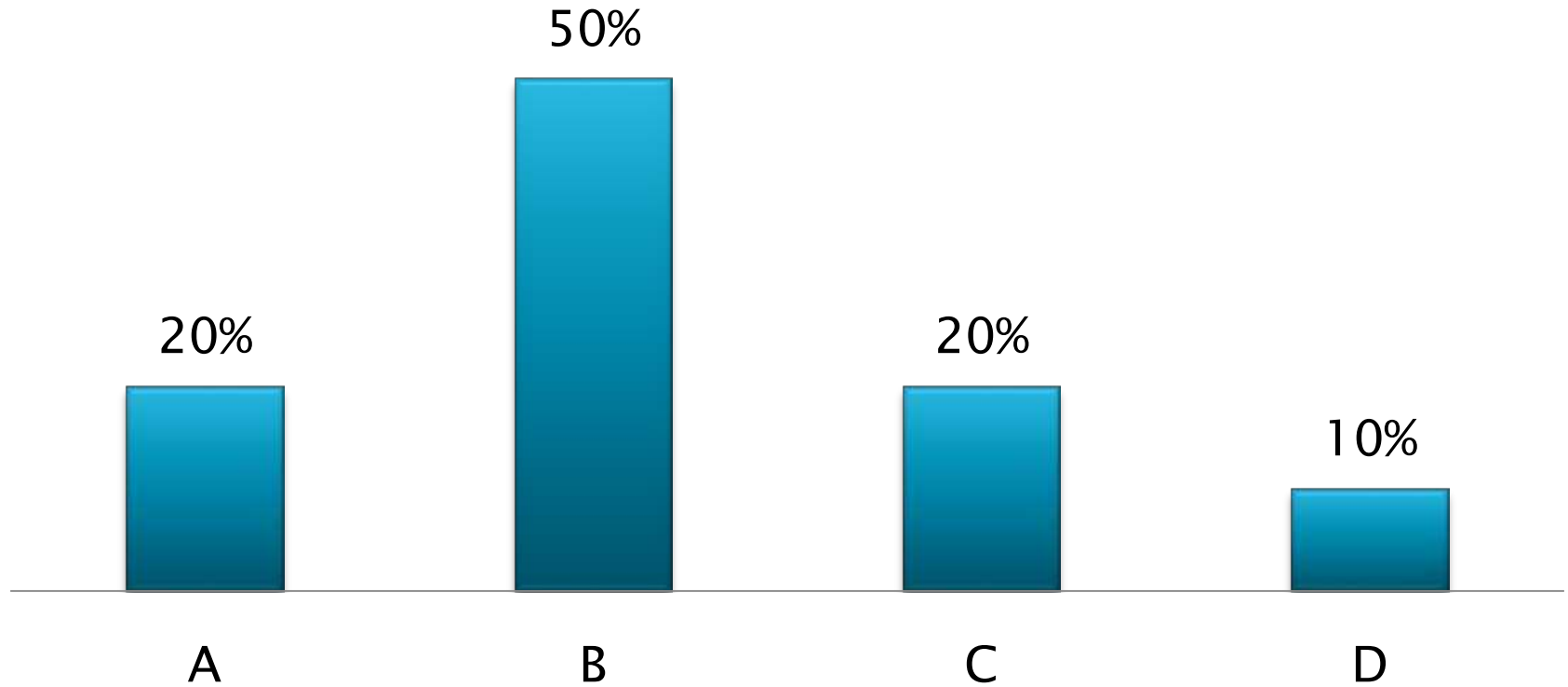
# Students' Results after Training

## Fundamentals of Computer Programming



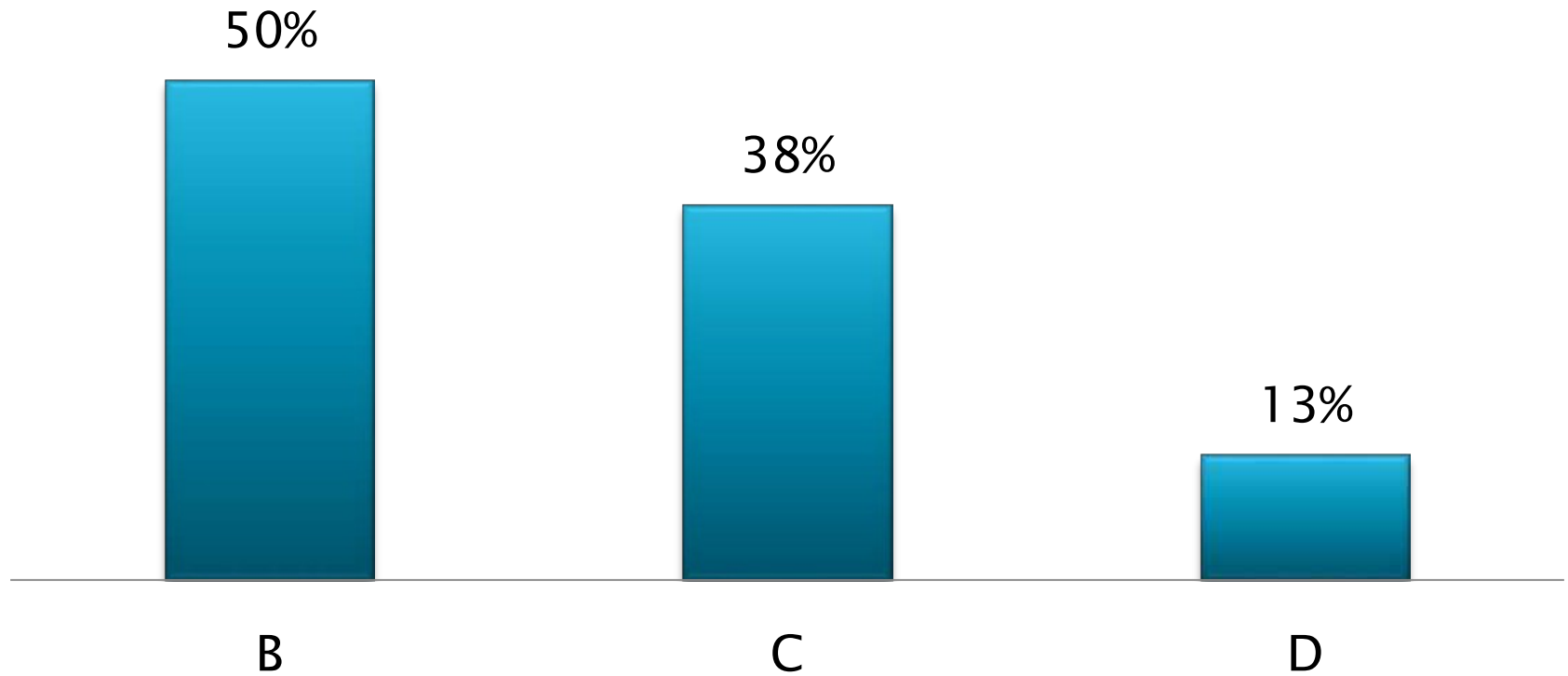
# Students' Results after Training Cont..

## Computational Physics



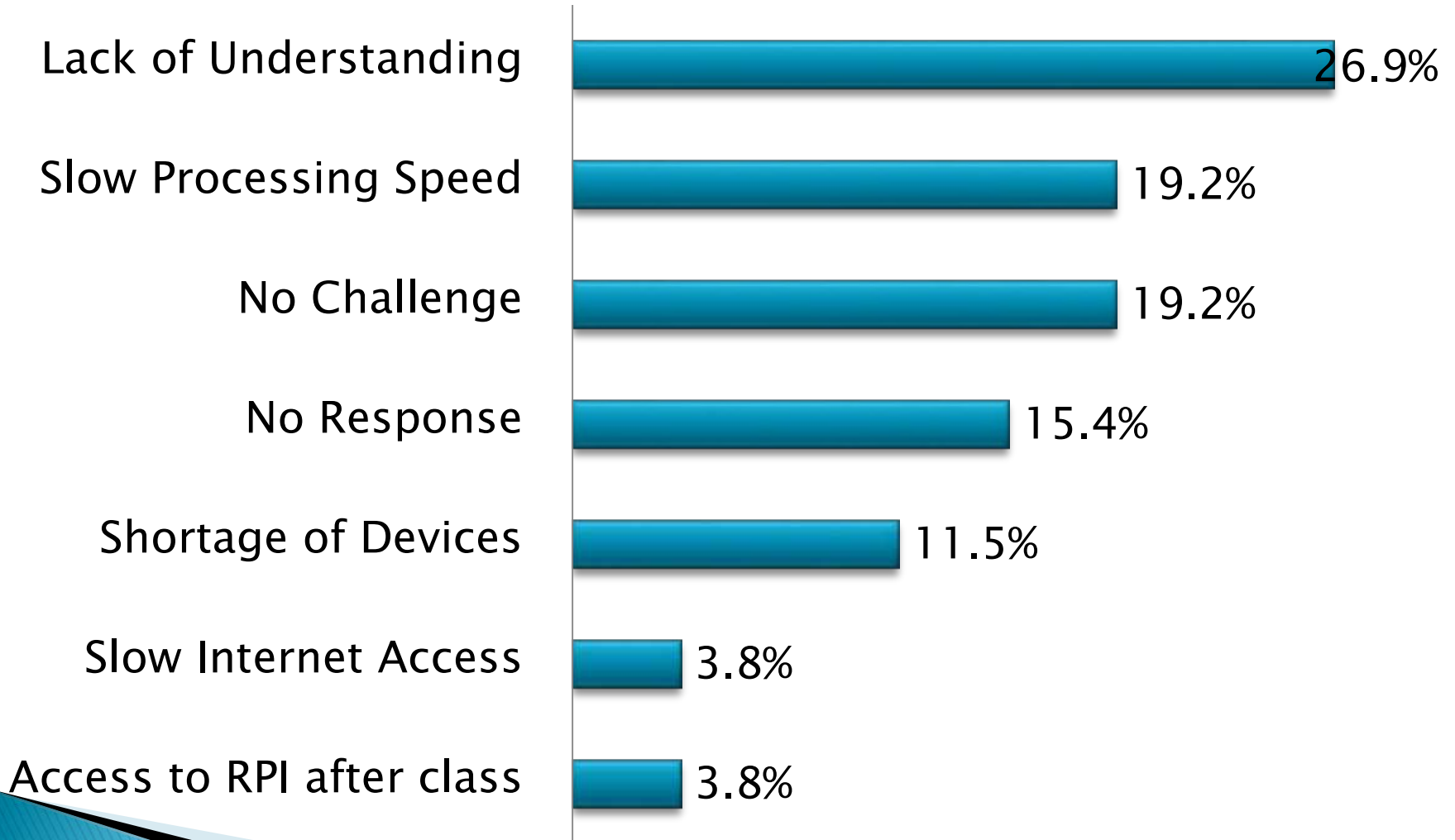
# Students' Results after Training Cont..

## Object Oriented Programming II

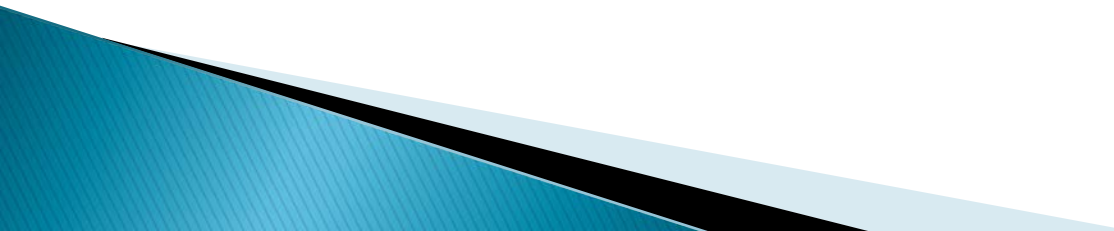




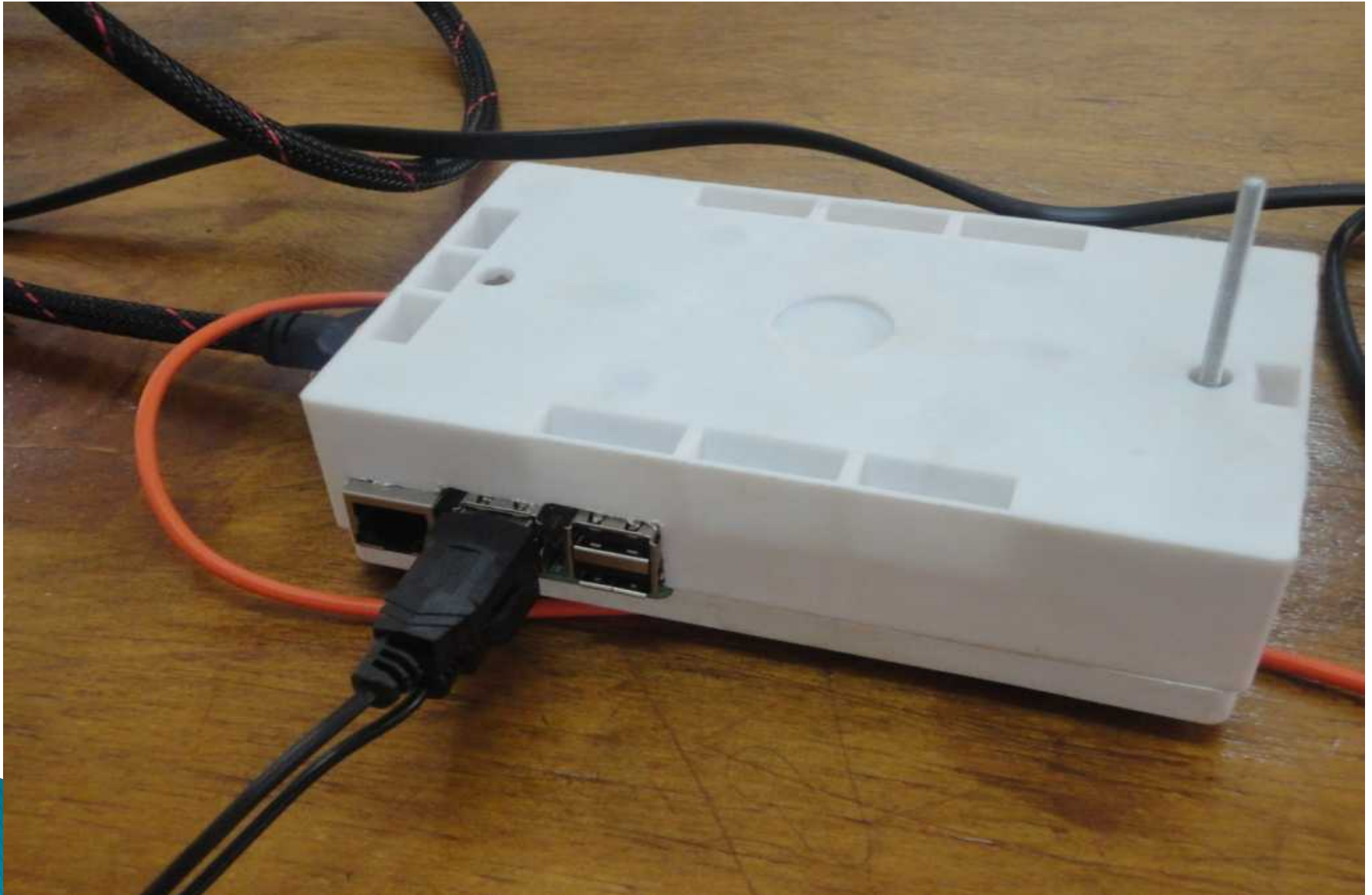
# Students' Challenges



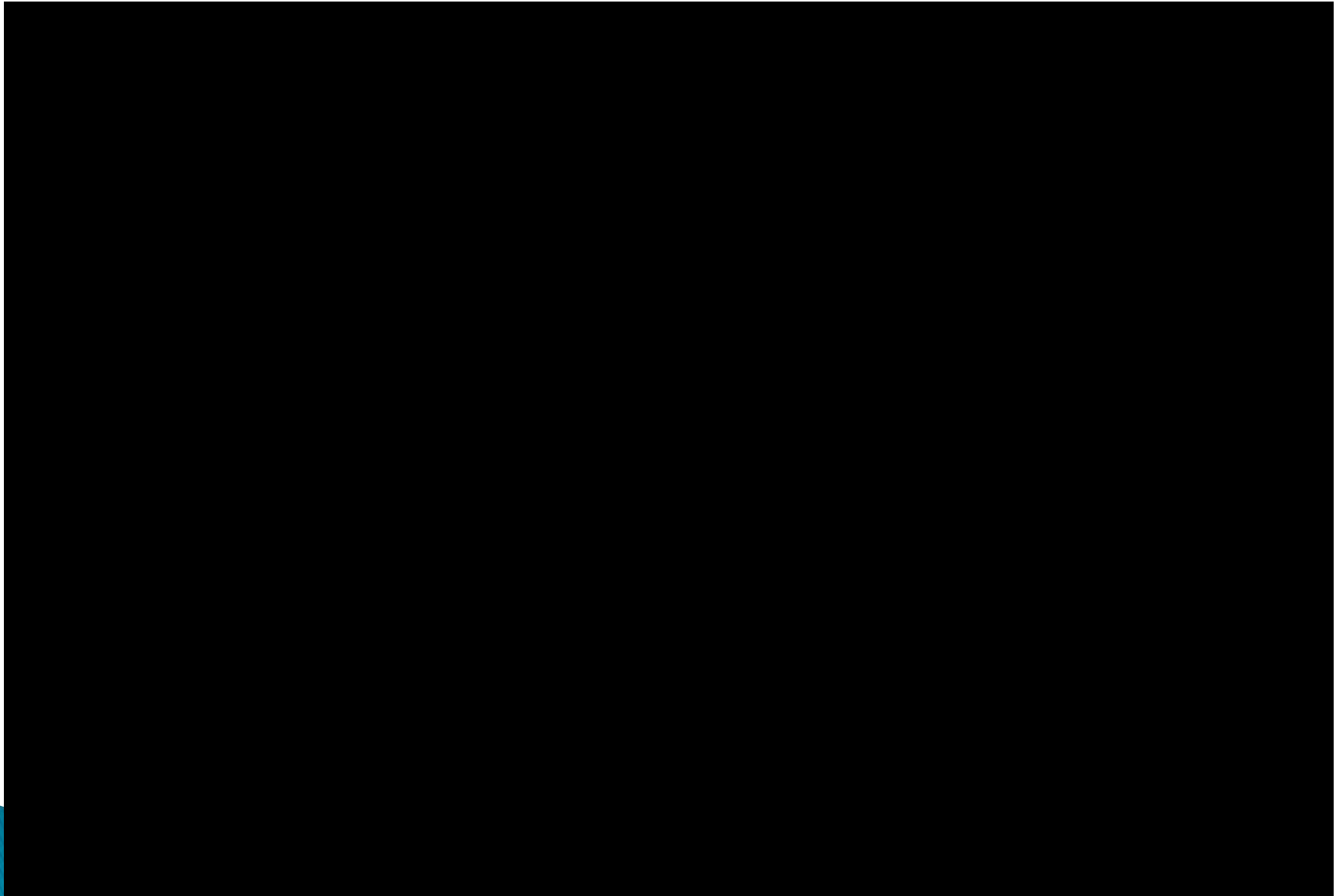
# Implementation Challenges

1. Incompatibilities of some accessories
  2. Lack of a dedicated Lab for RPi project
  3. Missing Pi casing units and heat sinks
- 

# Partial Solution



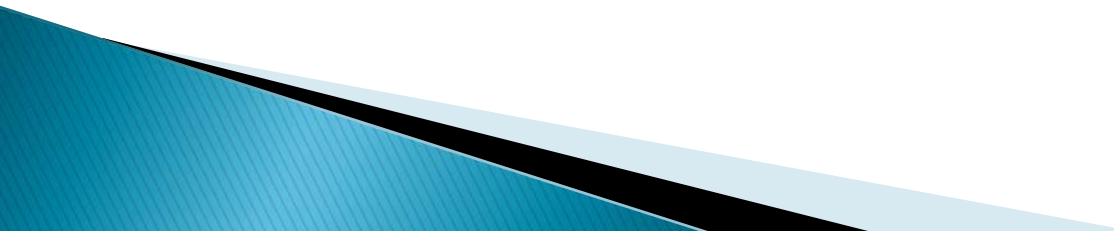
# Video documentary



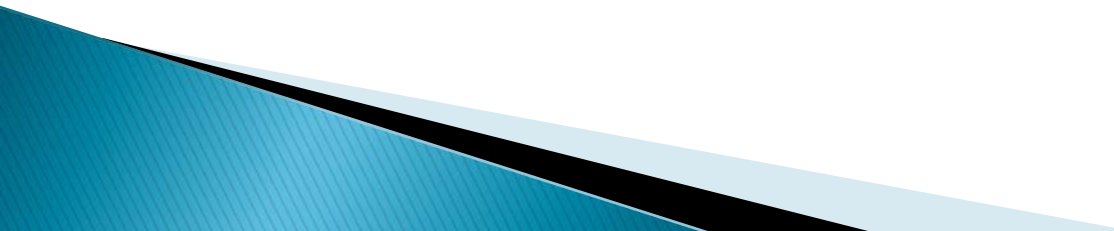


# Overall Results

The team is of the opinion  
that the project was a  
success



# Recommendations

- ▶ The project be tried in other courses
  - ▶ Students be encouraged to apply in projects
  - ▶ Course contents for primary schools be developed
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Thank You

Q & A

