

# Evaluation on Student's Perception towards Adoption of Blended Learning in UNITEN

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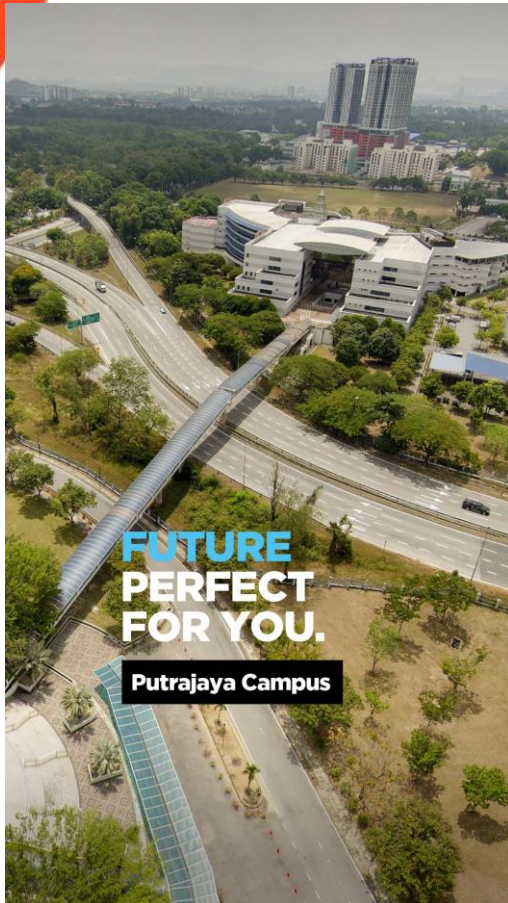
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# Presentation Flow

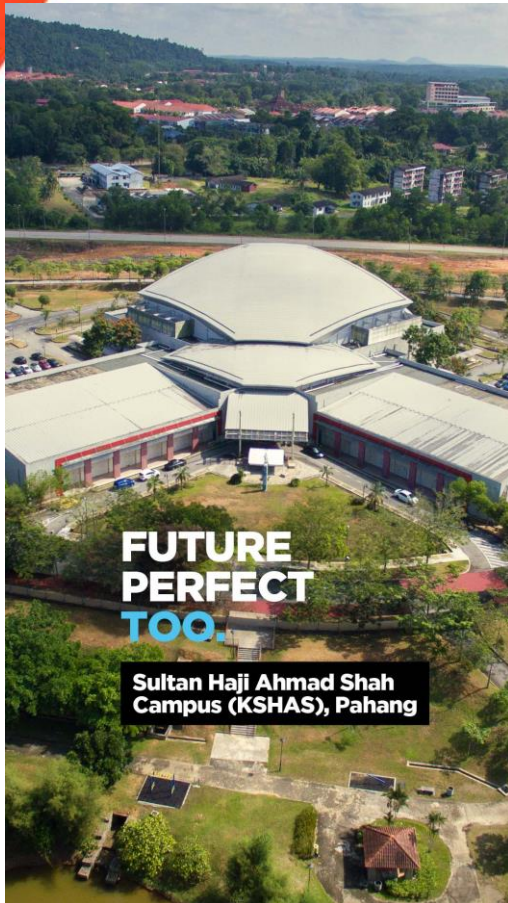
- Introduction
- Research Background
- Literature Review
- Research Methodology
- Result and Discussion
- Conclusion
- Q & A

# Introduction



- Situated in Wilayah Persekutuan Putrajaya.
- The UNITEN Putrajaya campus, in effect, began to take shape in 1995.
- Involving three stages of development and construction covering an area of 483 acres.
- There are 4 colleges in Putrajaya Campus, namely:
  1. College of Engineering (COE)
  2. College of Computing and Informatics (CCI)
  3. College of Energy Economics and Social Sciences (CES)
  4. College of Graduate Studies (COGS)

# Introduction



- Situated in Muadzam Shah, Pahang Darul Makmur.
- The story of Sultan Haji Ahmad Shah campus began on 13 February 2001.
- With the rapid growth of its main campus, Universiti Tenaga Nasional has formed a branch campus in Bandar Muadzam Shah, located at the south-eastern part of the state of Pahang
- There is one college in Sultan Haji Ahmad Shah Campus, namely:
  1. College of Business Management & Accounting (COBA)



# Background

- The Interest
  - Blended Learning implementation
  - evaluation of assessment
  - collaboration learning.
- The People
  1. Mr TJ Iskandar Bin Abd Aziz
  2. Mr Rahmat Bin Abdul Wahid
  3. Mrs Nur Hanani Binti Azami
  4. Mr Ahmad Ikhsan Bin Abd. Aziz
  5. Mrs Nur Aimi Syaqlah Binti Aziz
  6. Mrs Siti Aminah Binti Mohd Mansor



# Objectives of The Study

- The objectives of this study are:
  1. to investigate student's awareness towards Blended Learning implementation, and;
  2. to measure their level of satisfaction on the courses they registered.
- The outcomes of this research can be used to improve the BL implementation in the future.

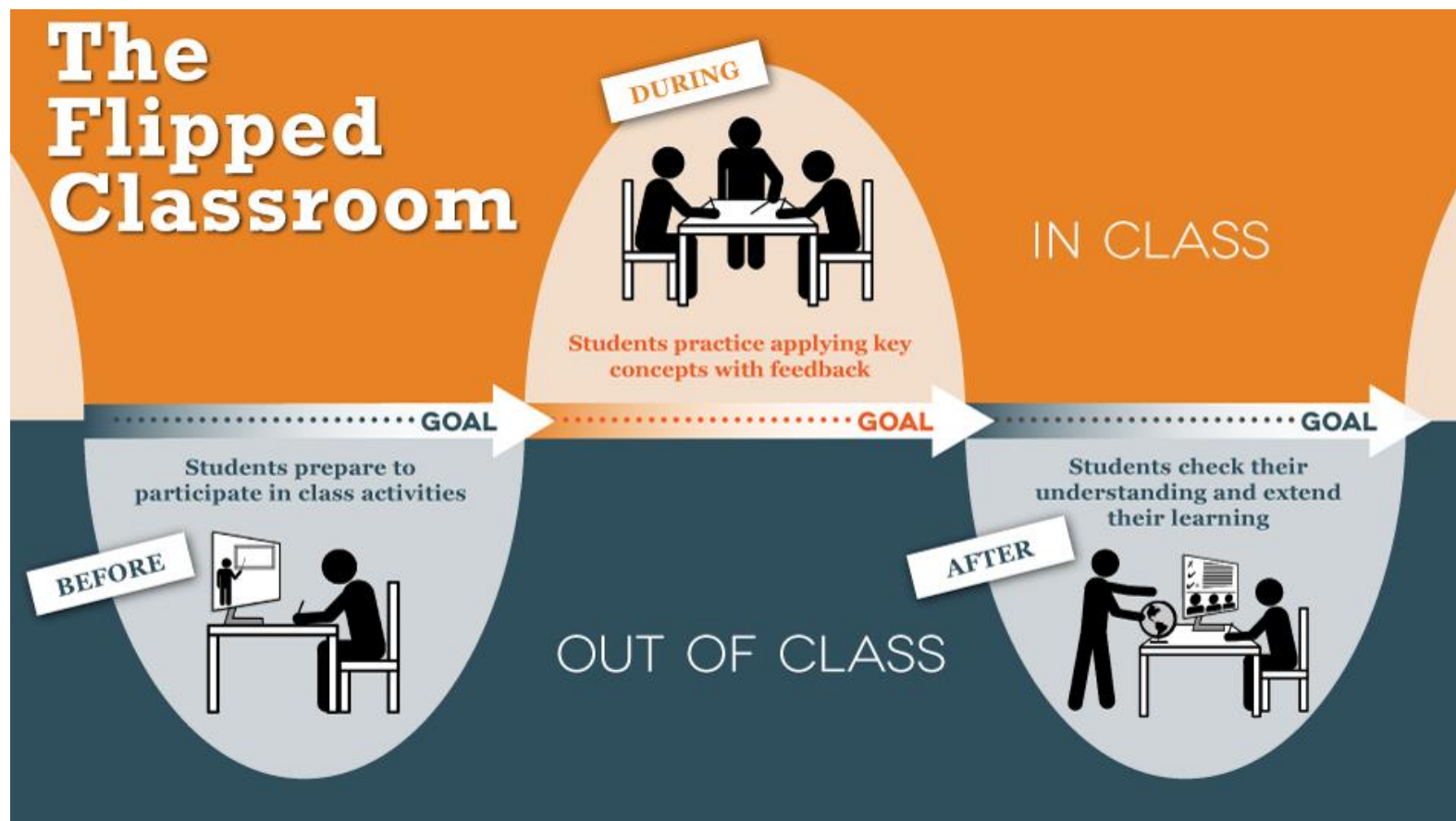
# Literature Review

# What is Blended Learning (BL)?

- E-learning is a web-based learning ecosystem which integrates participants with technology and processes (Alraimi et al., 2015).
- BL is an approach that integrates online and face-to-face methods of instructions which is defined as an integration of conventional classroom teaching with a combination of media, tools and teaching methods in web-based environment settings (Graham et al., 2006; Sabri et al, 2010).
- Flipped learning happens when traditional classroom process is reversed for enhanced student learning and engagement. Instructional materials are provided which students can read or watch outside the classroom, and the learning activities or homework happens in the classroom under the guidance of the instructor (Desai et al., 2018).

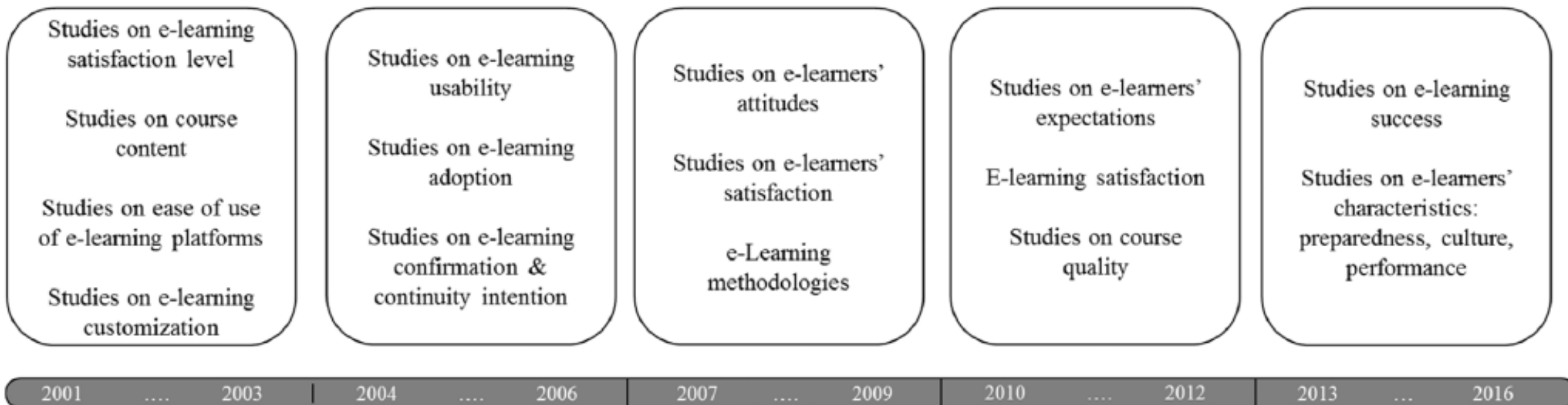


# Flipped Teaching and Learning



Flipped Classroom, The Faculty Innovation Center, The University of Texas at Austin (2019),  
<https://facultyinnovate.utexas.edu/flipped-classroom>

# The Evolution of E-learning Systems Based on Previous Studies



WA Cidrala et al., E-learning success determinants: Brazilian empirical study, Computers & Education 122 (2018) 273–290

# Implementation of Blended Learning (BL)

- Being one of the competitive HEIs in Malaysia, Universiti Tenaga Nasional (UNITEN) has been implementing BL approach since 2016.
- 36 pilot courses have been selected, along with the appointment of 49 pilot lecturers.
- These pilot courses and lecturers were involved since the early phase back in 2016 to give awareness of BL to the students.

# Implementation of Blended Learning (BL)

## Level 1: Technology-aided Learning (2016-2017)

- use technology as content repository by utilizing LMS to disseminate information and materials

## Level 2: Enhanced Learning (2018-2019)

- accomplished Level 1 and continue to enhance their Teaching and Learning (T&L) processes by utilizing technology

## Level 3: Flipped Teaching & Learning (2019-2020)

- employ Flipped Teaching/Learning and promote higher order thinking

## Level 4: Adaptive Learning (2020 onwards)

- personalized tracks for students with various academic background and learning dispositions



# TLC, UNITEN Initiatives



## Version 1 BLENDED LEARNING GUIDELINES

UNITEN  
JUNE 2017

TEACHING AND LEARNING CENTRE  
UNIVERSITI TENAGA NASIONAL

## TLC SHORT COURSES 2019

TLC is organizing short courses and workshops to enhance your amazing teaching skills and to enrich your teaching knowledge and experience. The following is the tentative list. Do reserve your places at TLC google registration form.

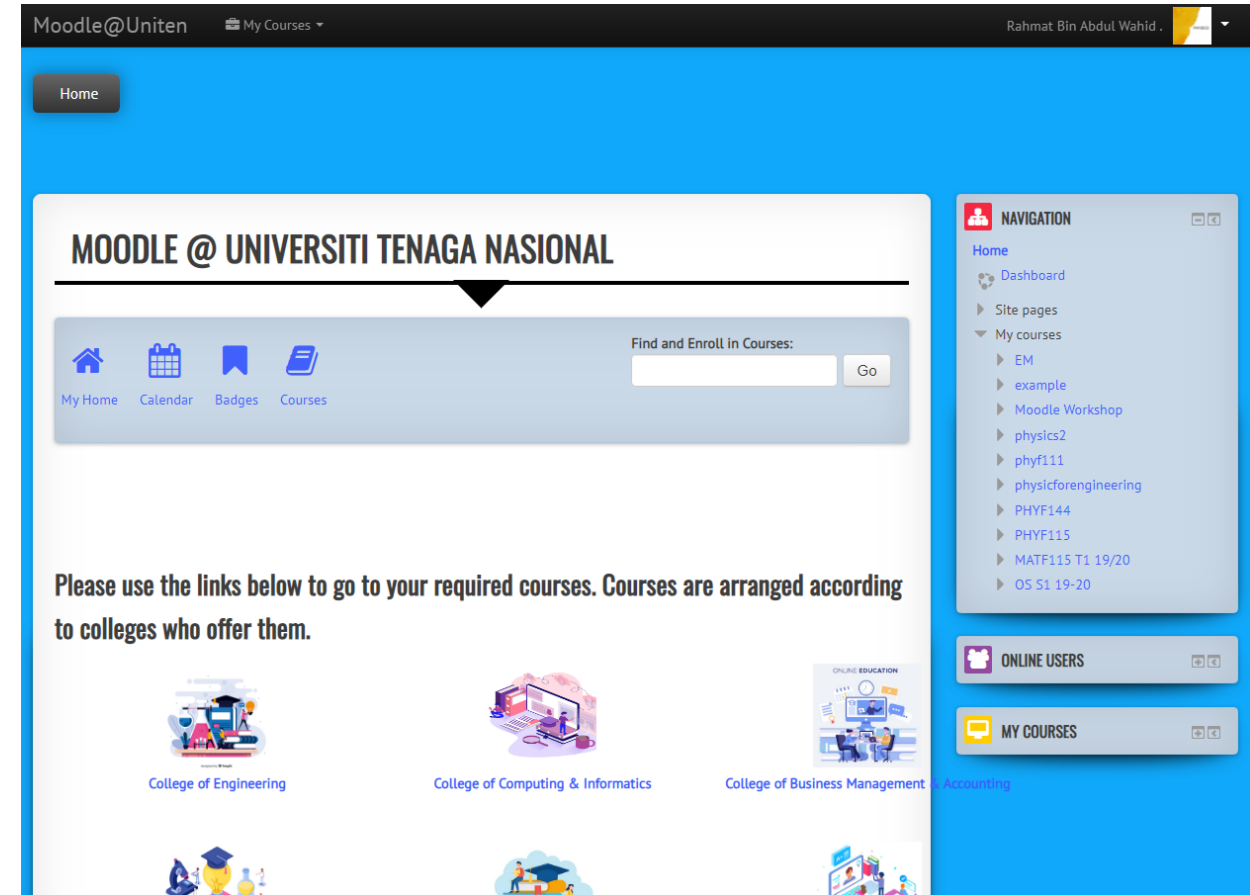
MONTH	DATE	TITLE	INSTRUCTOR
APRIL	25	Managing Personal Psyche through Personality	Mdm Husni
MAY	24	Innovation in educational technology for blended learning environment (Series 1)	Ts. T.J. Iskandar
JUNE	21	OBE – past, present and future	Mr. Adzly
	28	HOTs in Assessment Design	Dr. Thaharah
JULY	3-4	Effective Implementation of Active Learning	Prof. Dr. Khairiyah (UTM)
	12	Understanding Yourself as a Teacher	Dr. Thaharah
AUGUST	1	Innovation in educational technology for blended learning environment (Series 2)	Ts. T.J. Iskandar
	23	Research in Teaching and Learning (SOTL)	Dr Subarna (UTP) Dr Amrita Kaur (UUM)
SEPTEMBER	13	Moodle	Ts. T.J. Iskandar





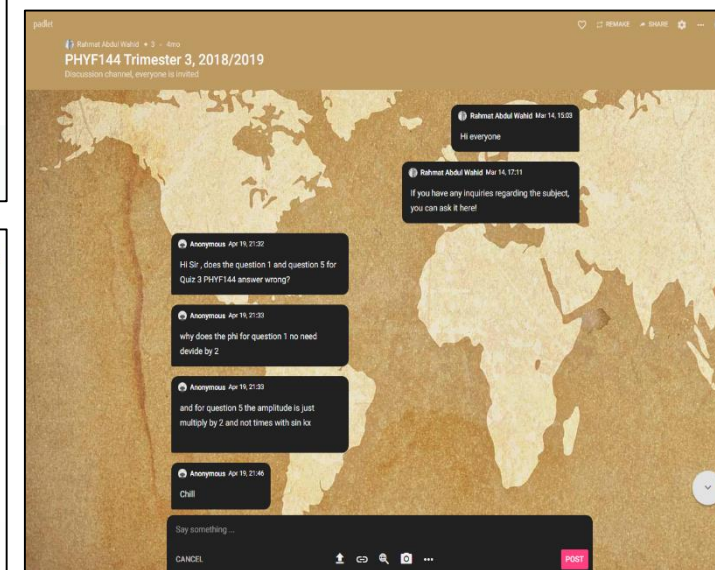
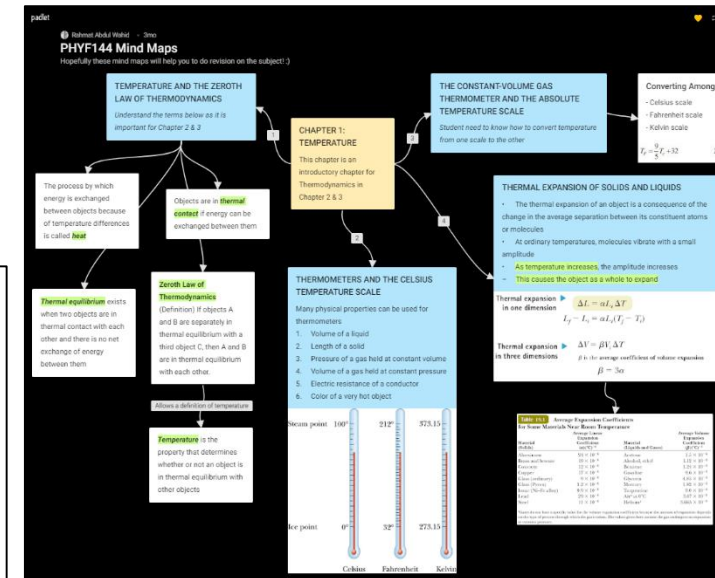
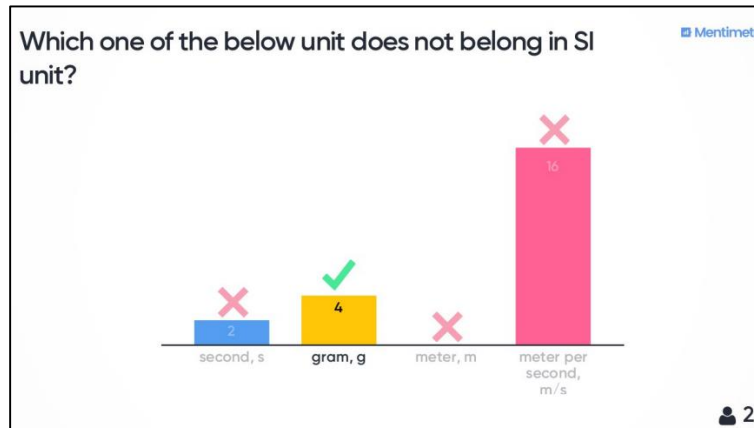
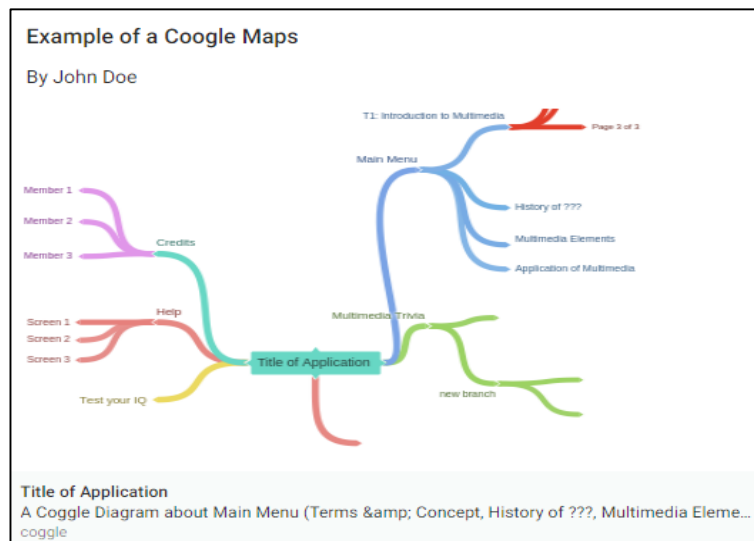
# BL Tools Utilized

- Learning Management System  
(<http://lms.uniten.edu.my/moodle/>)



# BL Tools Utilized

- Menti
- Padlet
- Plickers
- Coggle
- Google Docs
- Panopto
- Powtoon
- etc



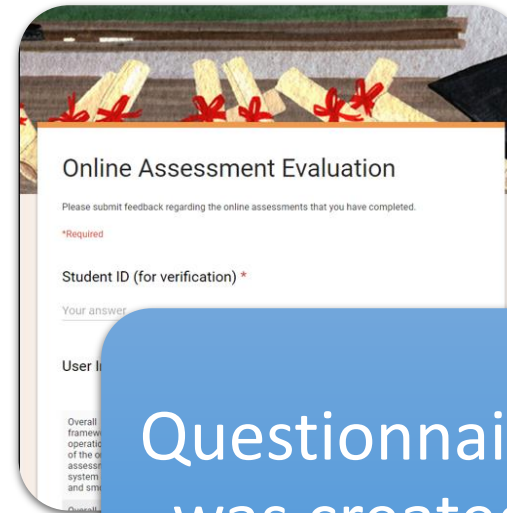
# Research Methodology

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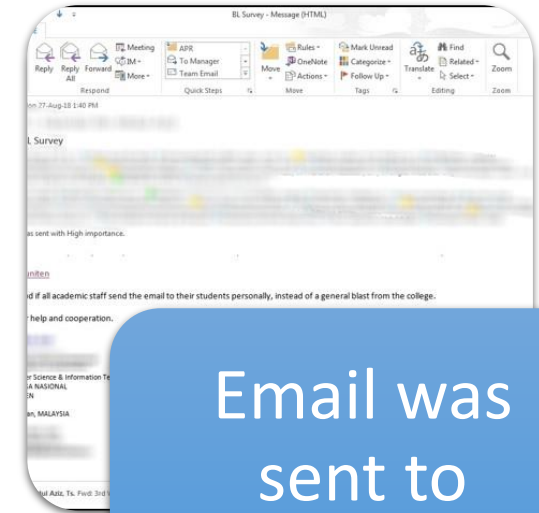
- Distribution of questionnaire was done without compromising respondents' private information and locality. As a matter of fact, target audiences was strictly defined as undergraduates. To ensure conformance and impartiality, respondents had been made aware that the integrity of all the information are uncompromised, and in no way would be relatable to them as individuals.
- Questionnaire was created on an online platform, and was segregated to the respondents through the blasting of e-mail. Detailed instructions was also incorporated on the notification email. Responses then shall be recorded and kept confidential.
- The questionnaire has two different formats provided as response options. In Yes/No format, items are answered (0) False and (1) True. In a four-point Likert format, items are answered (1) Strongly Disagree, (2) Disagree, (3) Agree and (4) Strongly Agree.
- Data obtained were analyzed using IBM Statistical Package for the Social Sciences (SPSS) Statistics to check its reliability and correlation between variables.



BL Committee  
decides the  
constructs to  
be assessed



Questionnaire  
was created  
on an online  
platform



Email was  
sent to  
respondents  
to answer the  
questionnaire

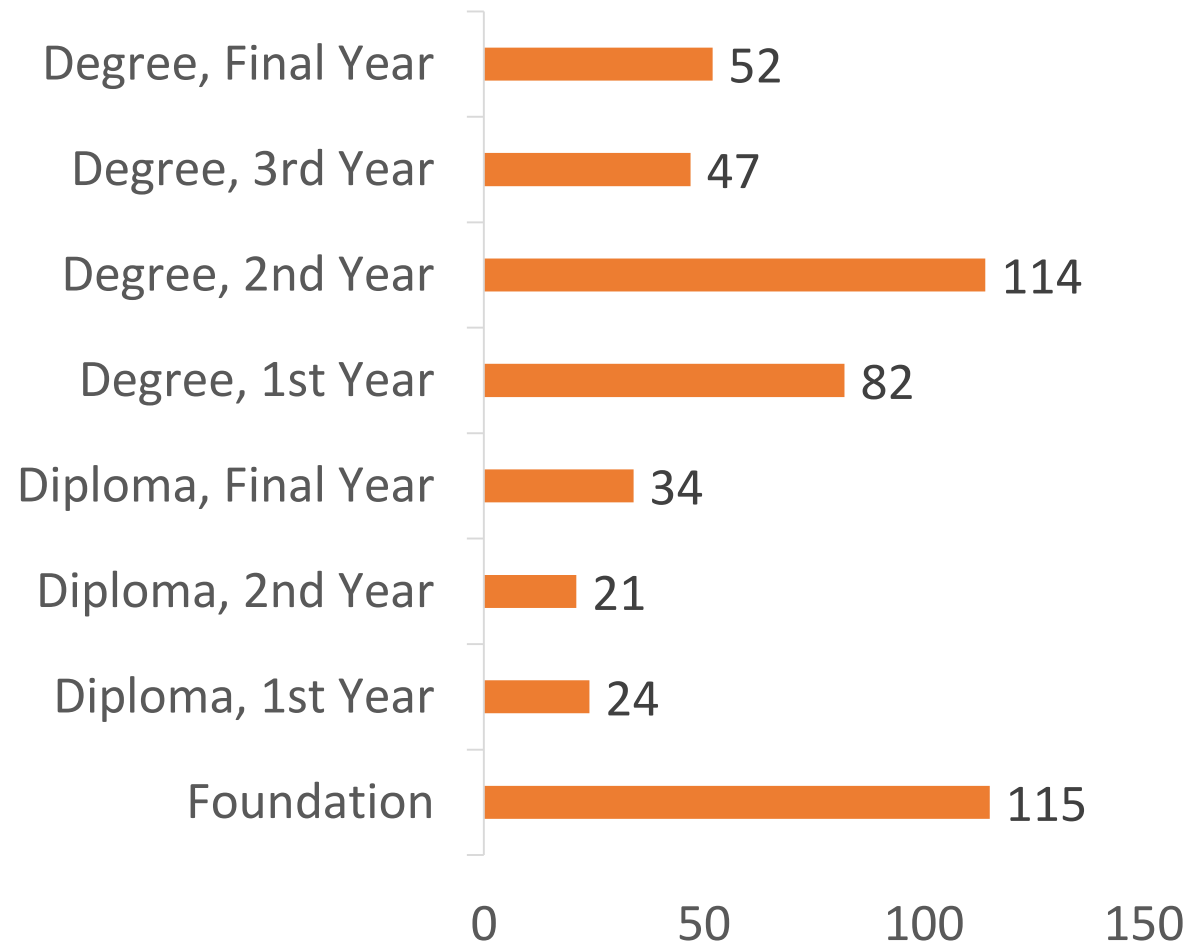
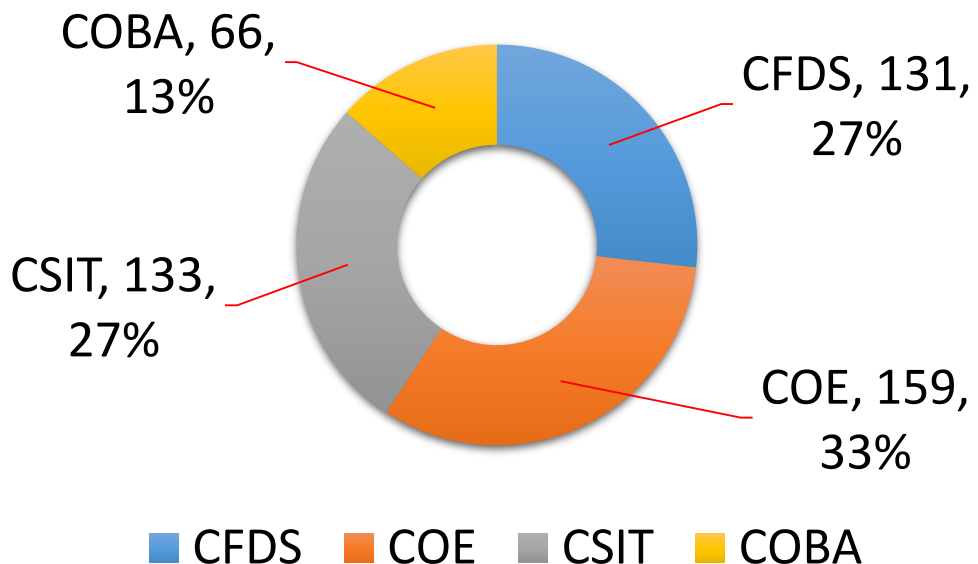
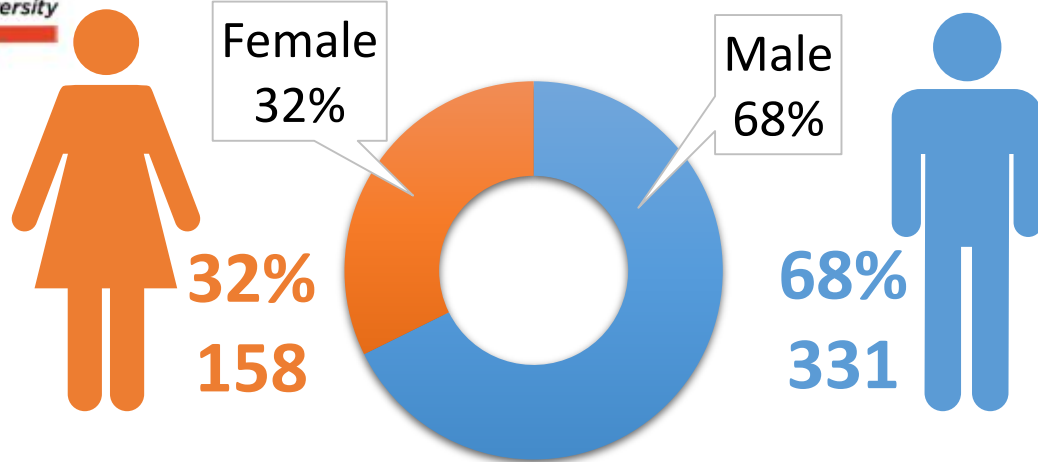


# Result & Discussion

# Section A: Demographics

# No. of Respondent : 489 students

## Gender

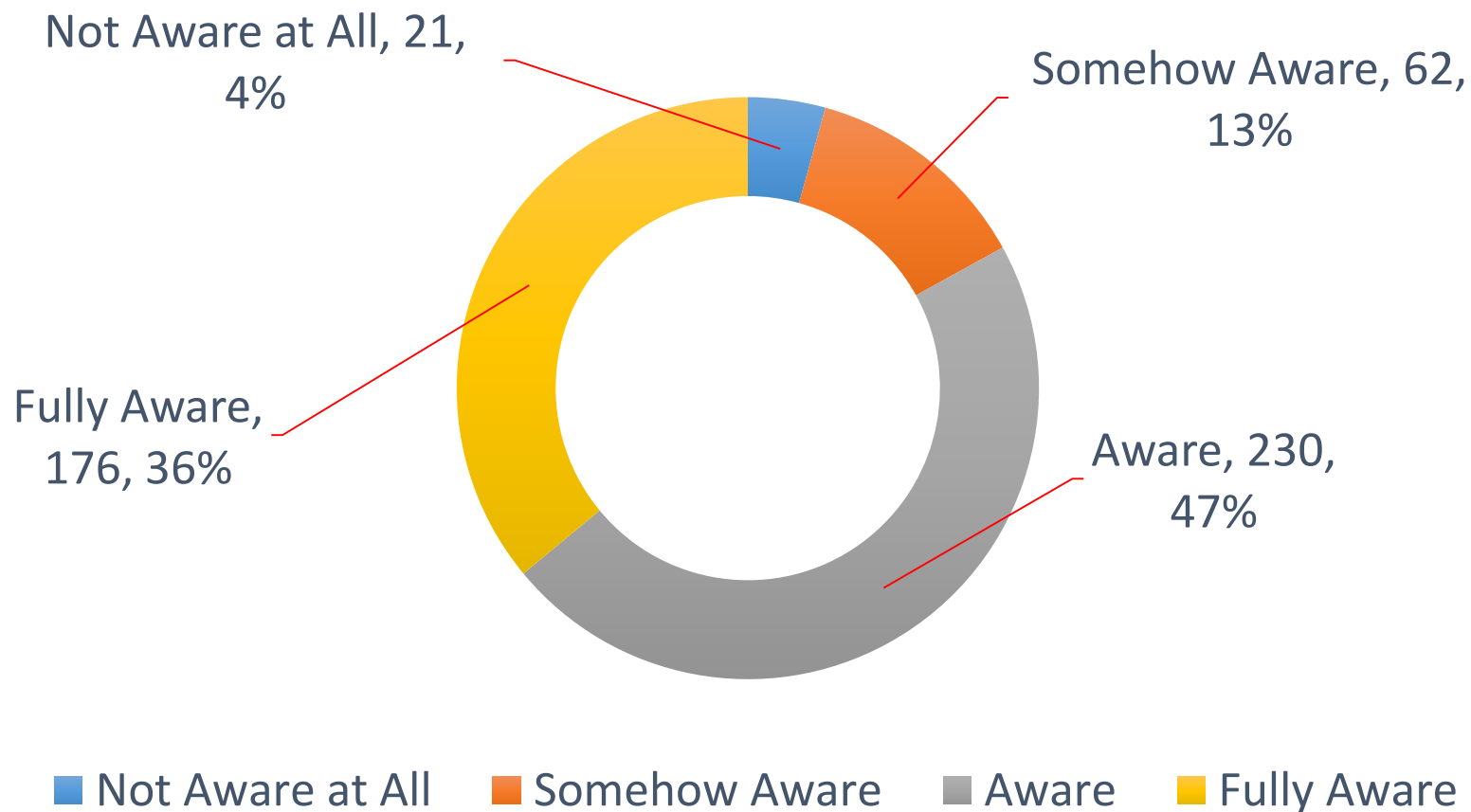


# **SECTION B:**

# **Awareness on**

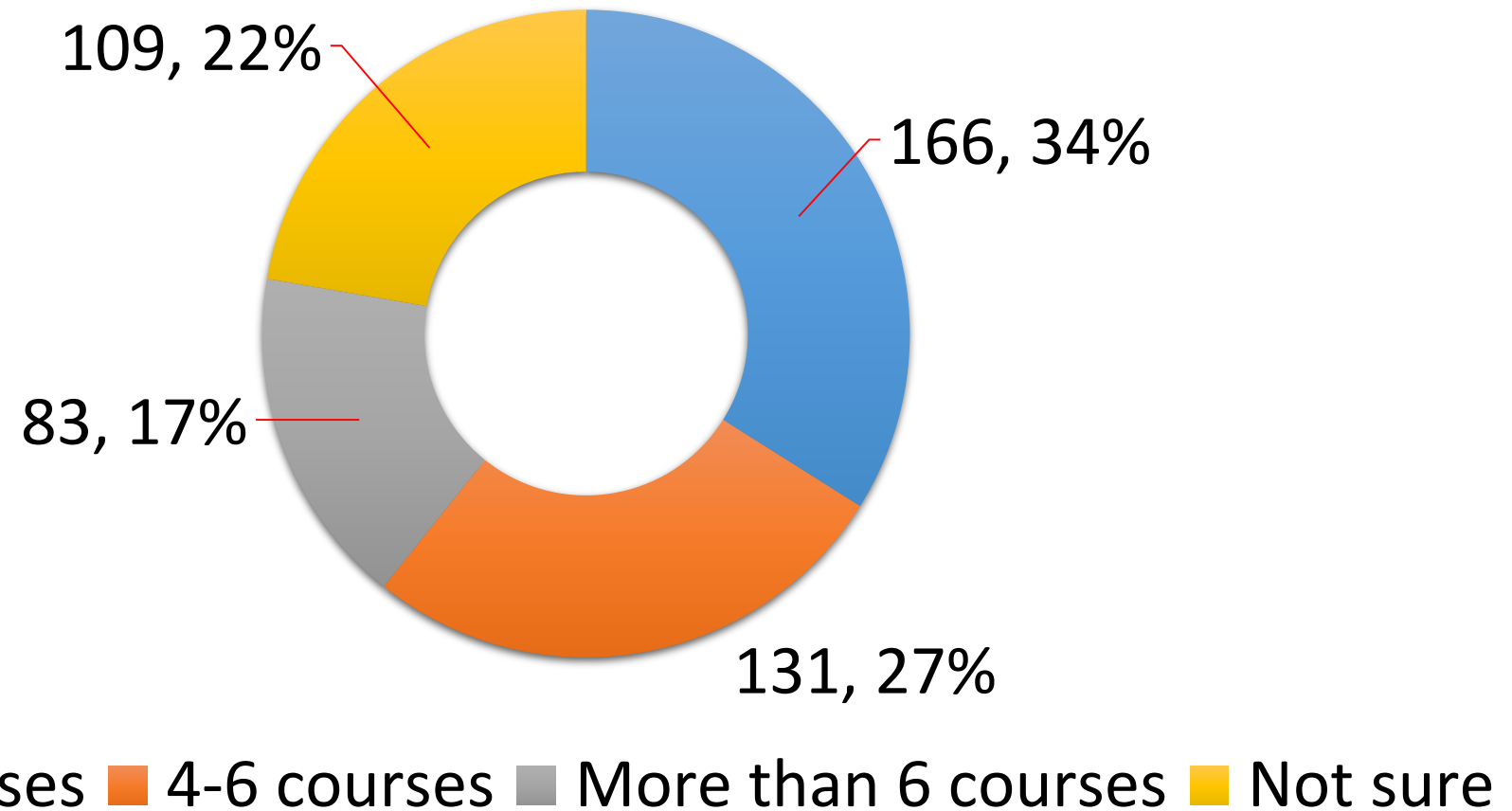
# **Blended Learning**

# Q1. I am aware that UNITEN is implementing Blended Learning concept (as defined above).





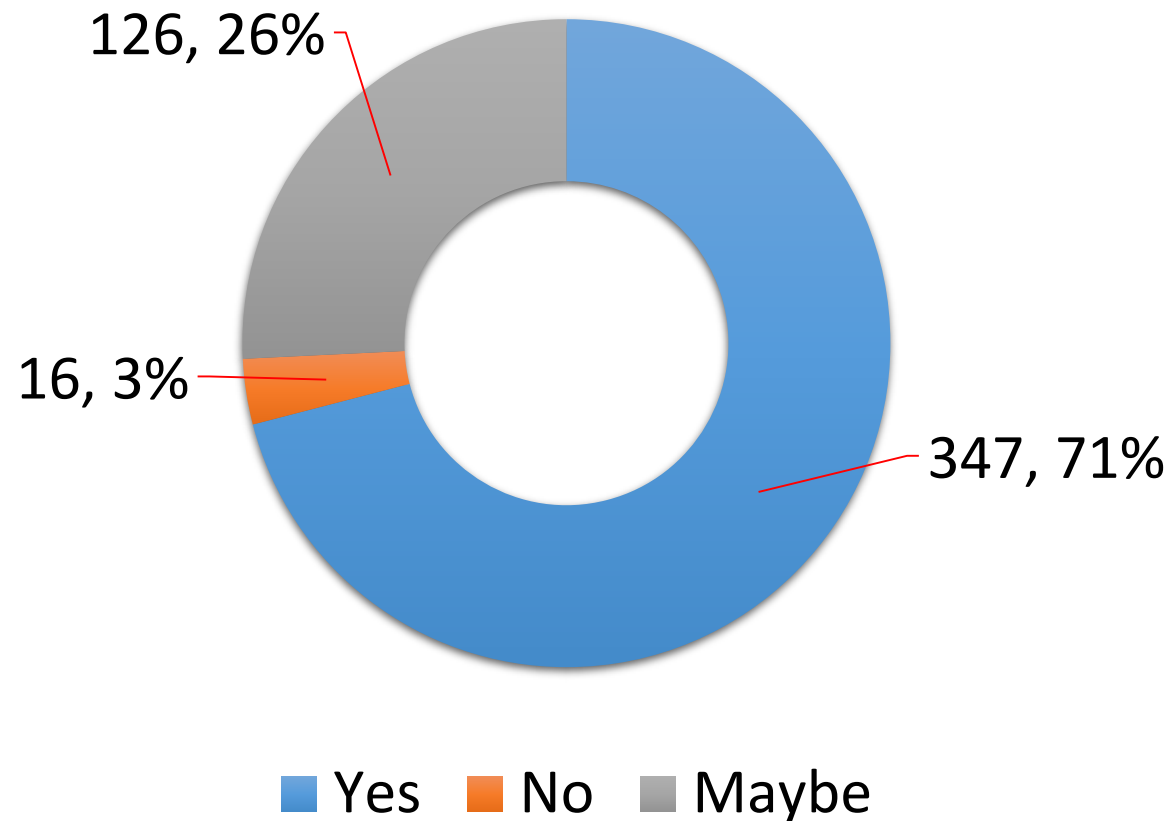
## Q2. I have experienced Blended Learning in one of the courses at UNITEN.



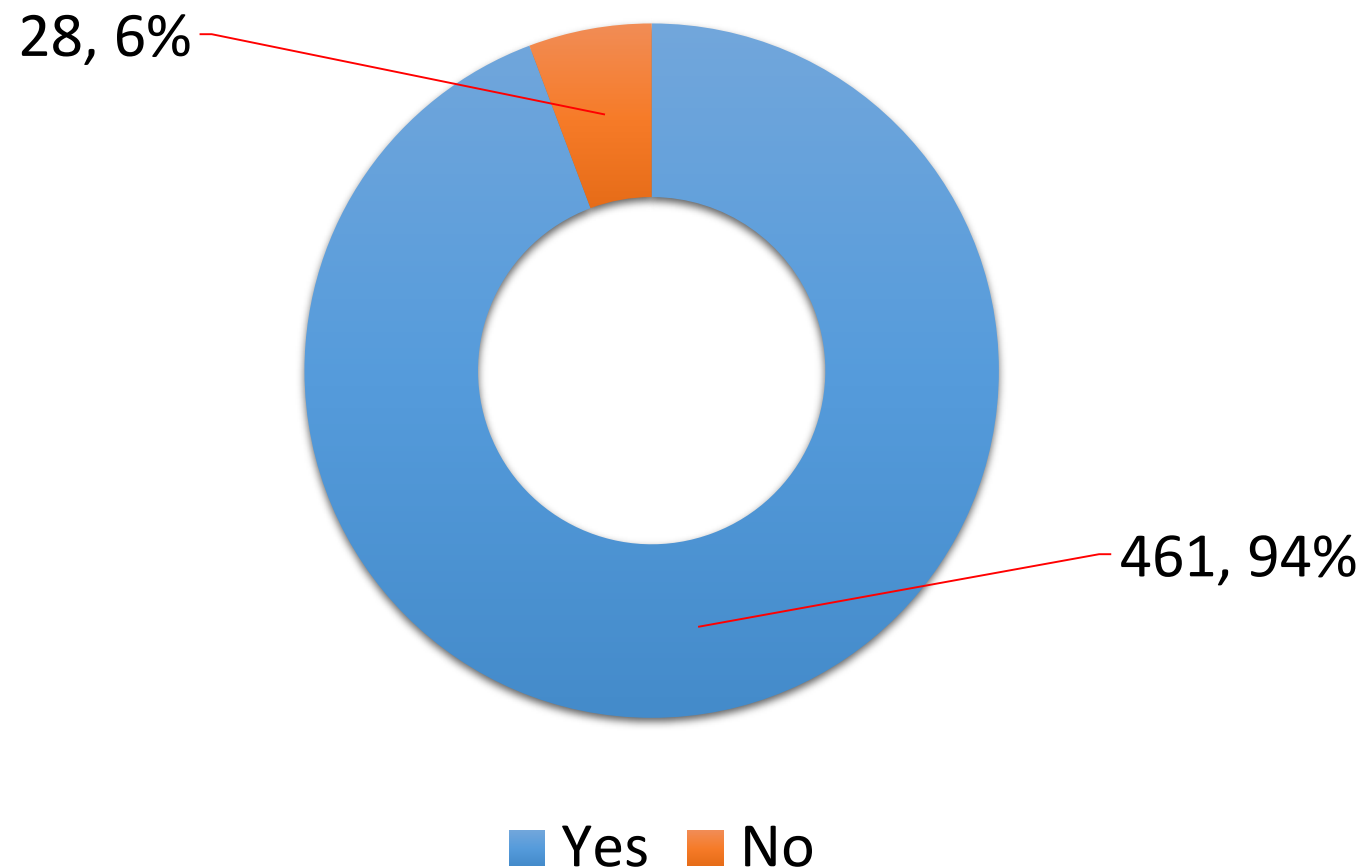
# Q3. Name of Course(s) that implements Blended Learning this semester (if any)

- Dynamics
- Thermodynamics
- ENNF103
- Electrical Engineering Practice
- Moral and Civil Society
- Dynamics
- Physics
- Multimedia Technologies
- Programming
- English
- Data and Computer Security
- Business Communication
- Programming 1 and C
- Psychology of thinking
- Vibrations
- Principle of Management
- mechanical design process
- Engineering economics
- Micro Controller
- Differential Equation
- Problem Solving
- Moral & Civil Society 1
- graphic design
- Renewable Energy
- Dynamic thermo circuit
- Database 1
- Multinational Corporations
- IHRM, MMC
- Internal Audit, Research Method
- Principles of accounting
- Research Method
- Accounting Theory and Practice
- Internal Auditing
- Islamic Banking and Finance
- Corporate Management
- Fiqh muamalat

## Q4. Blended Learning approaches is suitable to be implemented for all academic programmes in UNITEN



## Q5. I have used UNITEN's Learning Management System (<http://lms.uniten.edu.my/moodle/>)

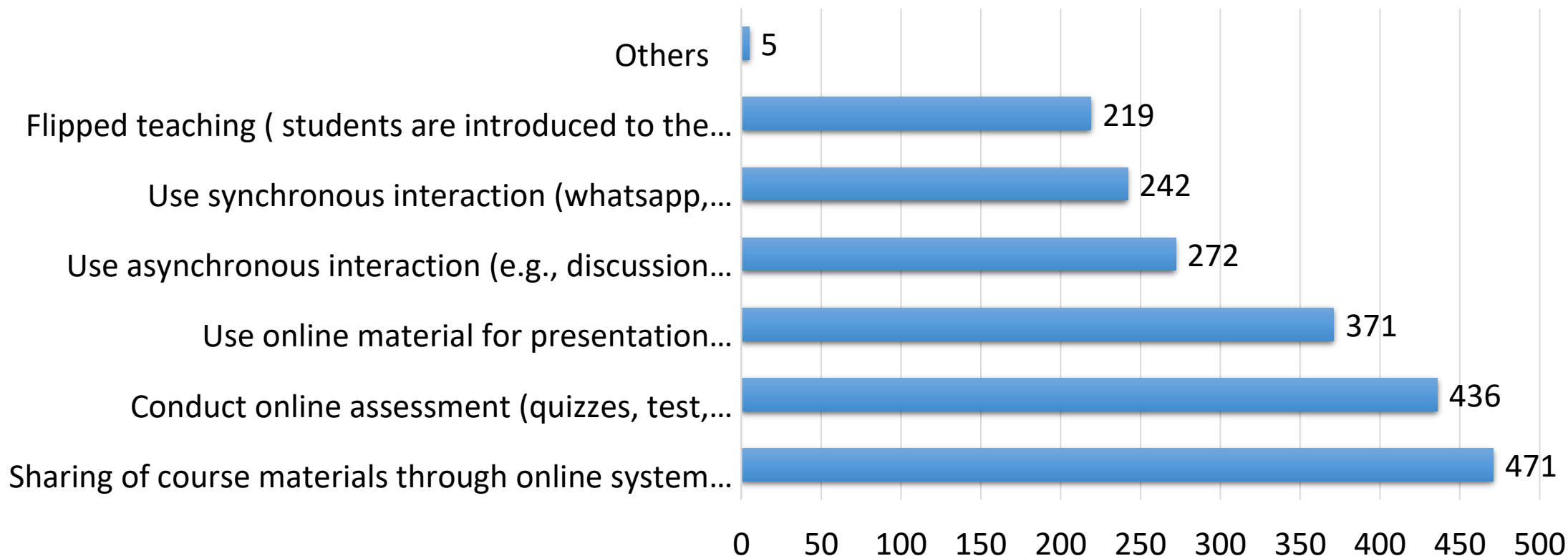


# Q6. My lecturer is using the following approaches in his/her class:

No.	Approaches Used by Lecturers	No of Students	Overall %
1	<b>Sharing of course materials through online system</b> (eg. Moodle, Google drive, DropBox etc)	471	96.32%
2	<b>Conduct online assessment</b> (quizzes, test, assignment using Moodle, Kahoot, Google Form etc)	436	89.16%
3	<b>Use online material for presentation</b> (e.g., demonstrations, videos and simulations, links to relevant websites like YouTube, Prezi, Powtoon etc)	371	75.87%
4	<b>Use asynchronous interaction</b> (e.g., discussion board, e-mails, forums etc)	272	55.62%
5	<b>Use synchronous interaction</b> (whatsapp, telegram, skype, video conferencing)	242	49.49%
6	<b>Flipped teaching</b> (students are introduced to the learning material before class, with classroom time is filled with problem-solving activities)	219	44.79%
7	<b>Others</b>	5	1.02%



## Q6. My lecturer is using the following approaches in his/her class:

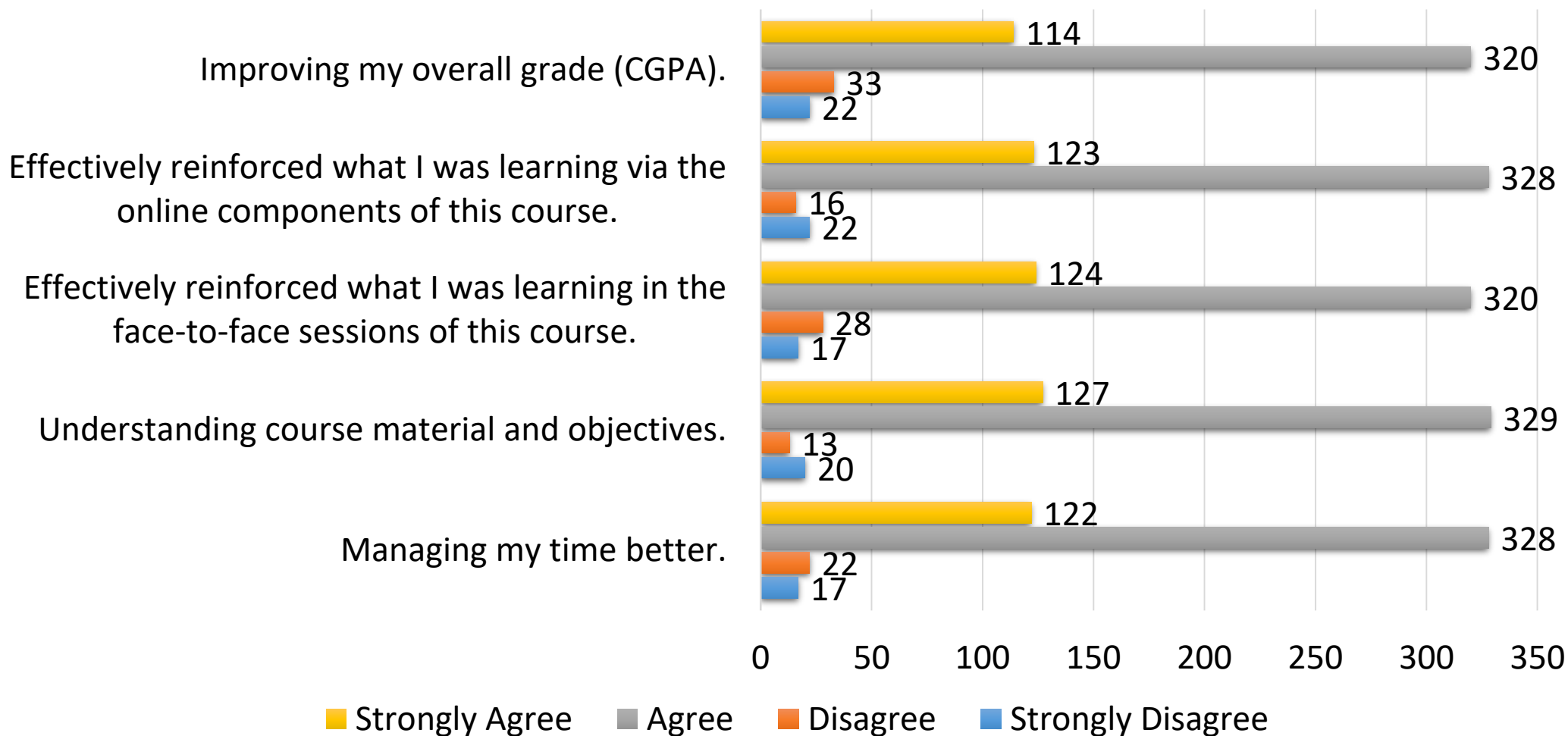


# **SECTION C:**

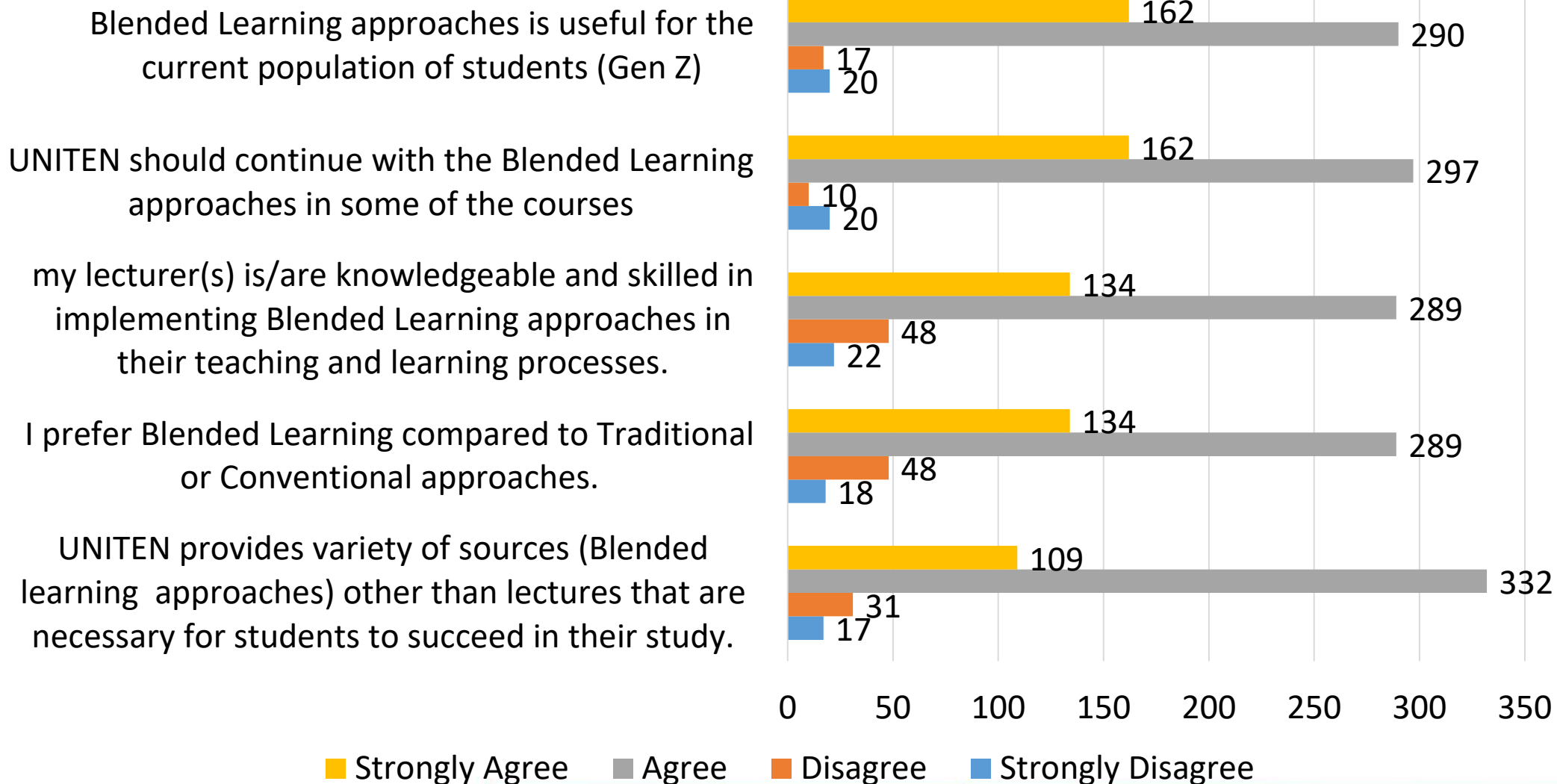
# **Satisfaction on**

# **Blended Learning**

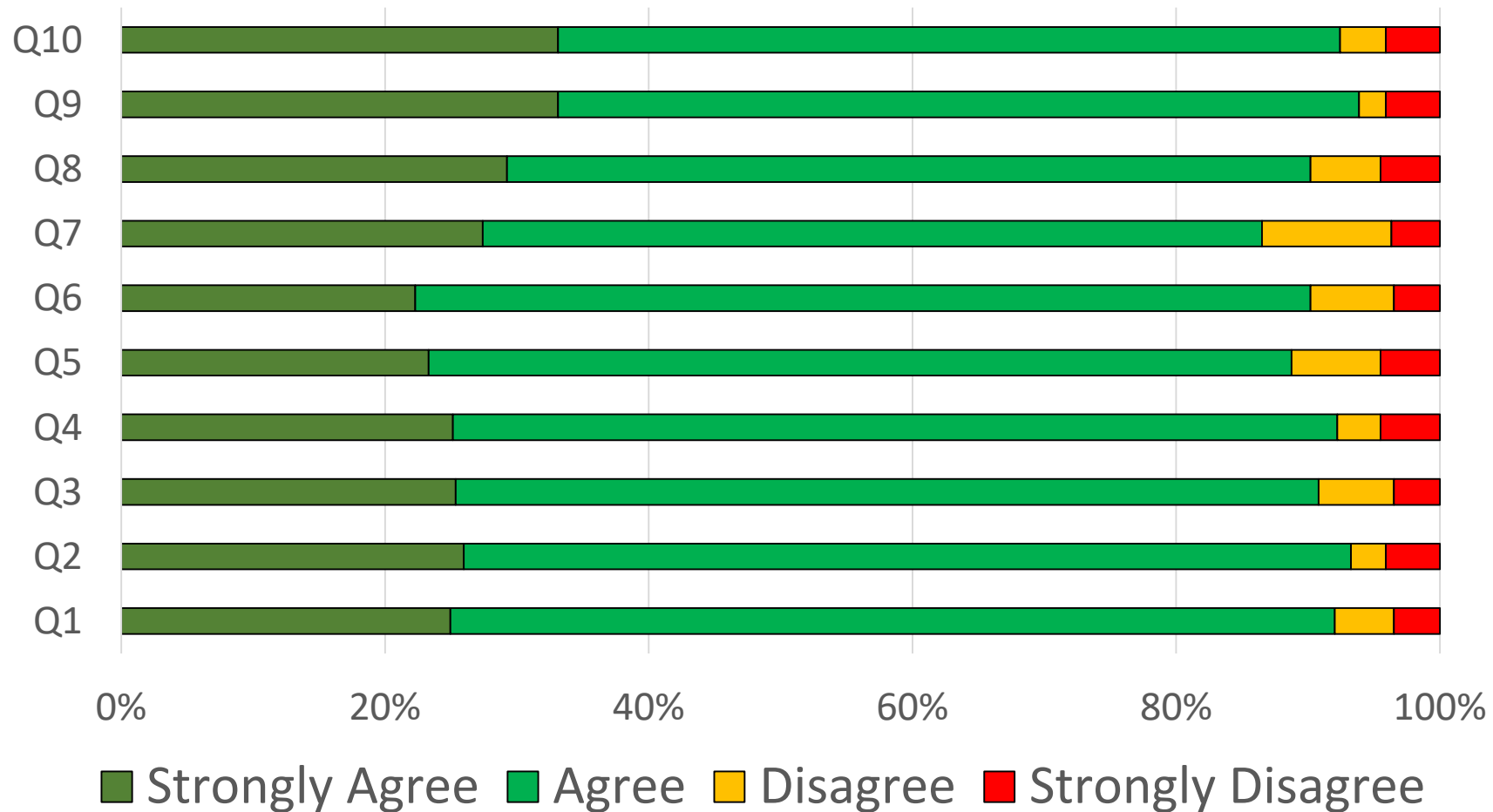
# Q1. Blended Learning has helped me in :



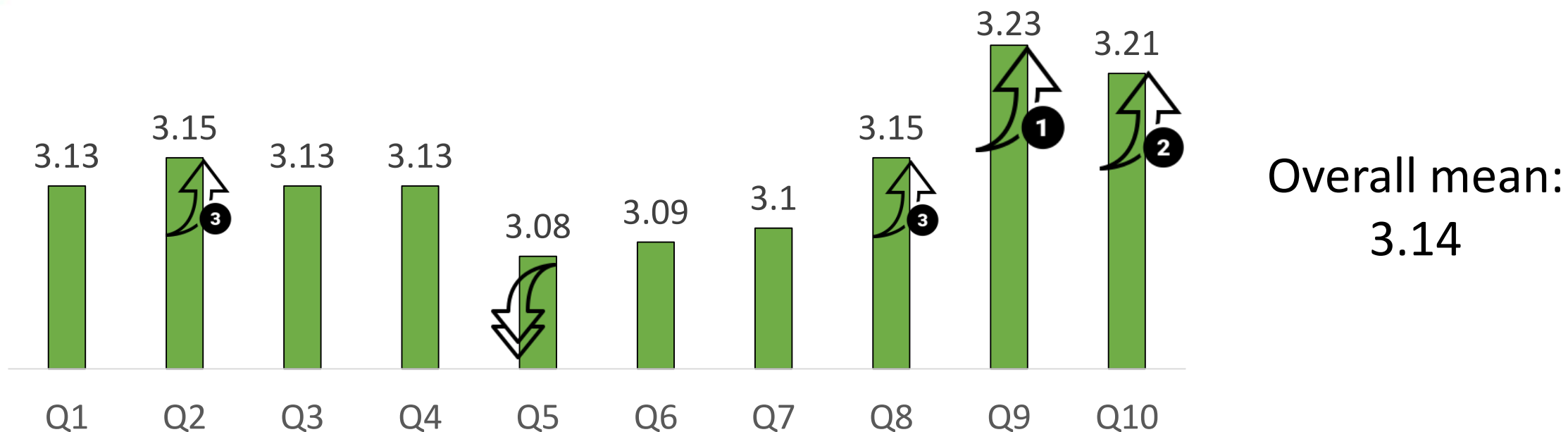
## Q2. Overall, I think that :



# Satisfaction on Blended Learning



# Satisfaction on Blended Learning



Highest mean (3.23) – Q9: UNITEN should continue with the Blended Learning approaches in some of the courses

Lowest mean (3.08) – Q5: improving my overall grade CGPA



# Conclusion

- The study was able to measure student's awareness and satisfaction on BL implementation in UNITEN. Data gathered shows high reliability and strong correlation between items in the questionnaire.
- The study provides insights on the current progress of BL implementation in UNITEN besides providing some suggestions which can be implemented for a better adoption of BL.

# Acknowledgement

We are thankful to the Teaching and Learning Centre, UNITEN and Innovation and Research Management Centre (iRMC), UNITEN for their support in assisting us throughout the completion of this paper.



# Thank you

# Q & A

# Research Collaboration Opportunity

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- Mr Rahmat Bin Abdul Wahid
- Email Address: [rahmatw@uniten.edu.my](mailto:rahmatw@uniten.edu.my)