



اَبُو سَيِّدِي تَبِيكُو لُو كِي مَارَا  
UNIVERSITI  
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# Data Analytics in Teaching and Learning: Visualization of Online Classroom Data

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# Online Classroom Data

Activity Logs.

Assignments &  
Quizzes.

Discussion Posts.

Feedback/Comments.

Shared Files.

Group Projects.

Grades.

Quiz Analytics.

Meeting Attendance.

Reflects.

Disclaimer: This demo is still in the exploration phase, and some features may change in the chosen LMS.

## Webinar Data Analytics Introduction



<https://forms.office.com/r/2ibdihaTes?origin=lprLink>

# Learning Management Systems (LMS)

Ufuture

Google  
Classroom

Microsoft  
Teams

Disclaimer: This demo is still in the exploration phase, and some features may change in the chosen LMS.

# Ufuture



Assessment Analysis



Show example of data analysis provided by Ufuture



Task 1: Which question many students make mistakes?



Attendance report.



Attendance by date we created the schedule.



From PDF convert to Microsoft Excel.



Task 2: Overall attendance report.

Disclaimer: This demo is still in the exploration phase, and some features may change in the chosen LMS.

# Google Classroom



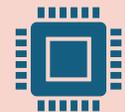
Attendance report.



Task 3: Show example of data in attendance and how can we visualize the attendance.



Emailed in our gmail account.



Task 4: Data analysis in google classroom.

## 1. Convert Duration to minutes

```
=IFERROR(VALUE(LEFT(C2,SEARCH("hr",C2)-2)),0)*60 +  
VALUE(SUBSTITUTE(TRIM(MID(C2,IFERROR(SEARCH("hr",C2)+2,0)+  
1,LEN(C2))), " min",""))
```

## 2. Create bar chart to monitor the attendance.

# Microsoft Teams



Attendance



Task 5: Attendance analysis using MS TEAMS.



Grades



Reflect



Insights

Disclaimer: This demo is still in the exploration phase, and some features may change in the chosen LMS.

- **Step 1: Convert duration to standard format**

=TRIM(SUBSTITUTE(SUBSTITUTE(D11,"h"," h "), "m", " min"))

- **Step 2: Convert duration to minutes**

=VALUE(  
 IF(ISNUMBER(SEARCH(" h ",E11)),  
 IF(ISNUMBER(SEARCH(" min ",E11)),  
 SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(E11,"s",""), " min ",":"), " h ",":"),  
 SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(E11,"s",""), " min ",":"), " h ",":0:"))  
 ),  
 "0:" & SUBSTITUTE(SUBSTITUTE(SUBSTITUTE(E11,"s",""), " min ",":"), " h ",":")  
 )  
 ) \* 1440

- **Step 3: Create new sheet in attendance.**

- **Step 4: Create a master list contains all student names. (Get it from SIMS academic)**
- **Step 5: Paste the formula according to you MS Teams attendance;**

=IFERROR(VLOOKUP(A2, 'Week 9\_1- Attendance'!\$A\$12:\$F\$42, 6, FALSE), 0)

Notes;

- I. Change sheet name according to your file.
- II. Change row and column according to your datasets.
- III. 6 is col\_index\_num, change this if **Duration** is in another column.

**Step 6: Plot the bar chart to compare the durations they join classes.**

**This format only works for MS Teams Attendance files**

# Microsoft Teams



Attendance



Task 5: Attendance analysis using MS TEAMS.



Grades



Reflect



Insights

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# Conclusion

01

Learn how to collect the online classroom data.

02

Learn how to extract the online classroom data.

03

Learn to gain insights based on the online classroom data.

04

Integrate the features available in selected LMS to help us to make inform decision, especially in teaching and learning.

05

Please help us by giving us feedback and telling us about how you've dealt with teaching and learning data in the past.

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## Webinar Feedback



<https://forms.office.com/r/96pqqgUBJM>



**THANK YOU  
FOR ATTENDING  
THIS WEBINAR**