

ONLINE LEARNING TRAINING

SHARING OF BEST PRACTICES



Implementation Process of Online Class

Assoc. Prof. Dr. Norma Alias

9am - 11am

 <https://zoom.us/j/91070234252>

normaalias@utm.my

FREE

Content

- 1. What is FREE**
- 2. Online Class framework**
- 3. Pedagogy Transformation**
- 4. Impact of Educator 4.0**
- 5. Process of Implementation**
- 6. Some Educator 4.0 Software**
- 7. Conclusion**

What is Future Ready Education (FREE)

1- Enhance digital learning readiness through self-assessment.

2- Maximize digital learning opportunities and embrace a powerful vision of student-led learning

So, it will be ...



Example - Big data generated and the most popular **social media** in 2017
 Facebook 1 M logging
 Youtube 4.5 M videos viewed

2018 Internet Minute



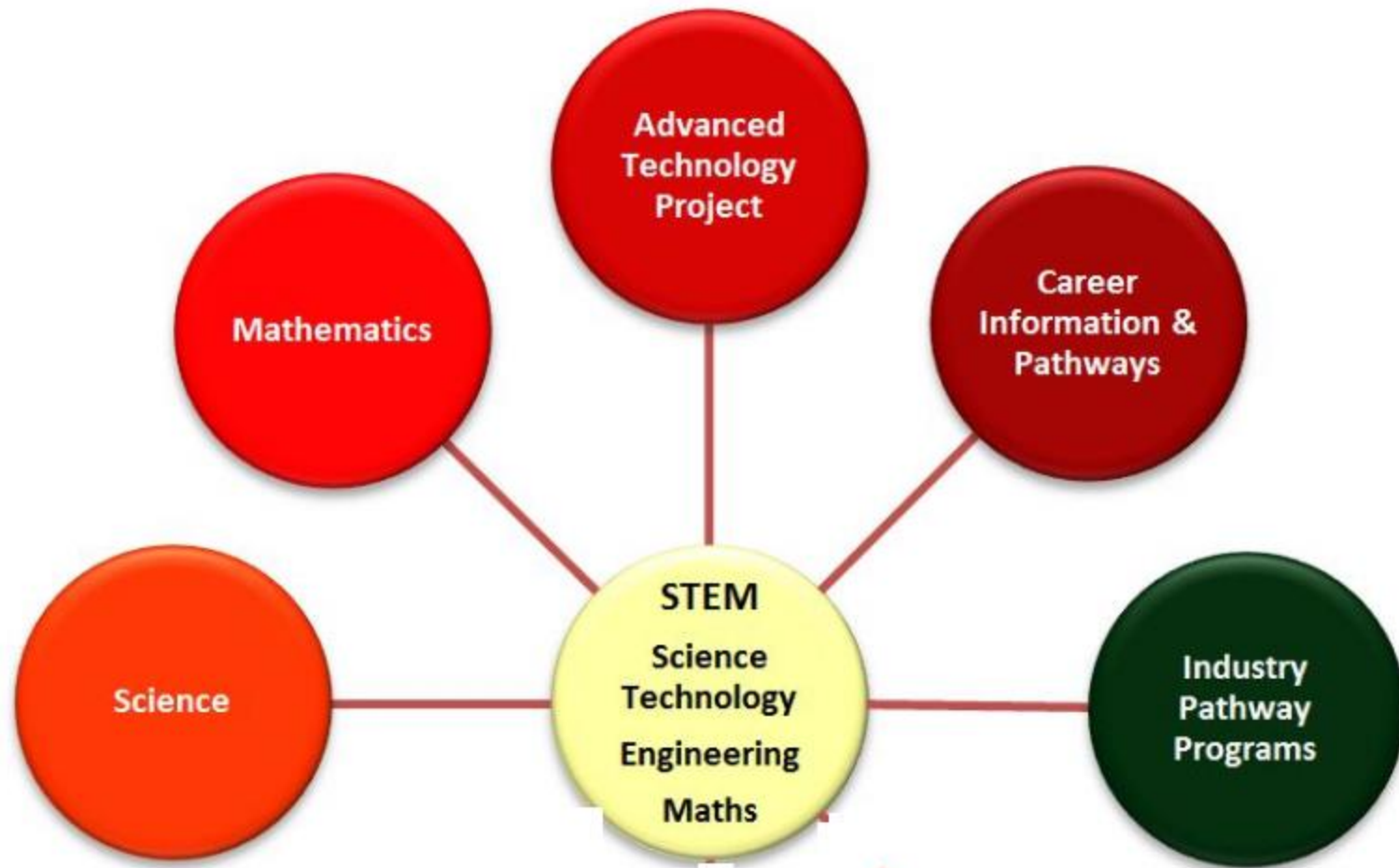
2019 Internet Minute



Benefit of Educator 4.0 on **students perspective**

- **Aware of Educator 4.0** teaching and learning skills
- **Video and animation**
assignments, presentation,
- Advertisement for **digital business**
- Handling meeting, online decision making, giving opinion and arguments professionally
- Implementing **holistic value**: integrity, responsibility, wisdom, glory morality, courage and justice.
- Student **outcome**: life long learning, practical skill, social skill, problem solving, entrepreneurship, information management
- Preparation for **Education 5.0**

STEM - SCIENCE, TECHNOLOGY, ENGINEERING & MATHS



Gen Z

Gen Z is defined as teenagers ages between 13 to 19 currently.

Revolutionized by technology

This is the generation that would be attending colleges in the coming years!!

Gen Z aspirations

1	22%	expressed desire of relevant and meaningful education to equip them for jobs of the future
2	38%	wanted strong growth early enough in their careers
3	32%	wished most of their dreams to be fulfilled within 10 years

Challenge and Opportunity for Educator 4.0

Challenge

- Are teachers ready for Education 4.0?
- How dramatic the future of learning?
- The changing **future of jobs** is challenging

Opportunity

- Opportunities to learn at different times in different places.
- New solutions to **global challenges**, and employment opportunities for jobs
- Cloud computing and the **IoT**

Pedagogy Transformation Video

The Transformation of Pedagogy

	Education 1.0	Education 2.0	Education 3.0
Meaning is...	Dictated	Socially constructed	Socially constructed and contextually reinvented
Technology is...	Confiscated at the classroom door (digital refugees)	Cautiously adopted (digital immigrants)	Everywhere (ambient, digital universe)
Teaching is done ...	Teacher to student	Teacher to student and student to student (progressivism)	Teacher to student, student to student, student to teacher, people-technology-people (co-constructivism)
Schools are located...	In a building (brick)	In a building or online (brick and click)	Everywhere (thoroughly infused into society: cafes, bowling alleys, bars, workplaces, etc.)
Parents view schools as...	Daycare	Daycare	A place for them to learn, too
Teachers are...	Licensed professionals	Licensed professionals	Everybody, everywhere
Hardware and software in schools...	Are purchased at great cost and ignored	Are open source and available at lower cost	Are available at low cost and are used <i>purposively</i>
Industry views graduates as...	Assembly line workers	As ill-prepared assembly line workers in a knowledge economy	As co-workers or entrepreneurs

Heutagogy: Self-Determined Learning

- Learners are 'problem-finders'. They know their destination and become interdependent on those who can help them determine the route
- Learning is not necessarily sequential or linear. Learners accept full responsibility for their learning, welcoming challenge and serendipity
- Learners are enquiry driven – they take a long-term view of their learning, seeking further complexity and uncertainty
- Motivation lies in experiencing 'flow' and knowing how to learn. Learners seek out unfamiliar situations and the gaining of 'adaptive competencies'
- Coach – brings together opportunity, context, external relevance and extended complexity. Fosters a culture of collaboration and curiosity

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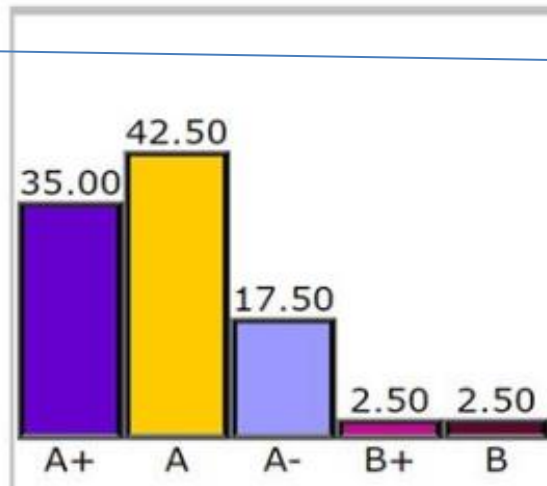
Impact of Educator 4.0

Thank you to UTM. Thank you to Educator 4.0.

The transformation of my teaching method for this semester. Alhamdulillah

Before versus After

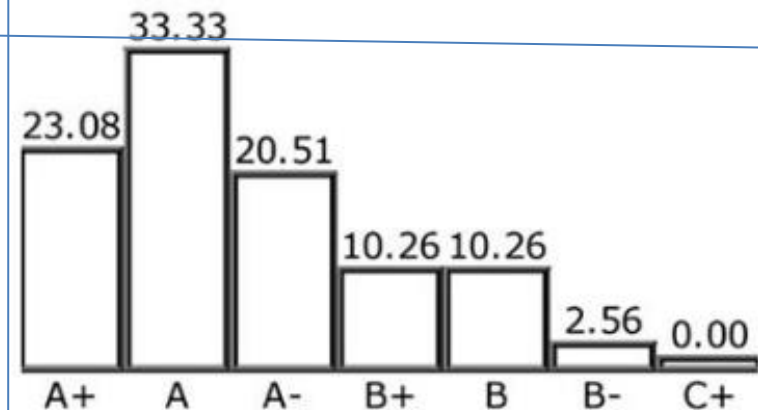
After Education 4.0



Statistik Pencapaian Keseluruhan

Min Anda : 4.73
 Min Fakulti : 4.56
 Min Universiti : 4.53
 Rank Anda Di UTM : P4

Before Education 4.0

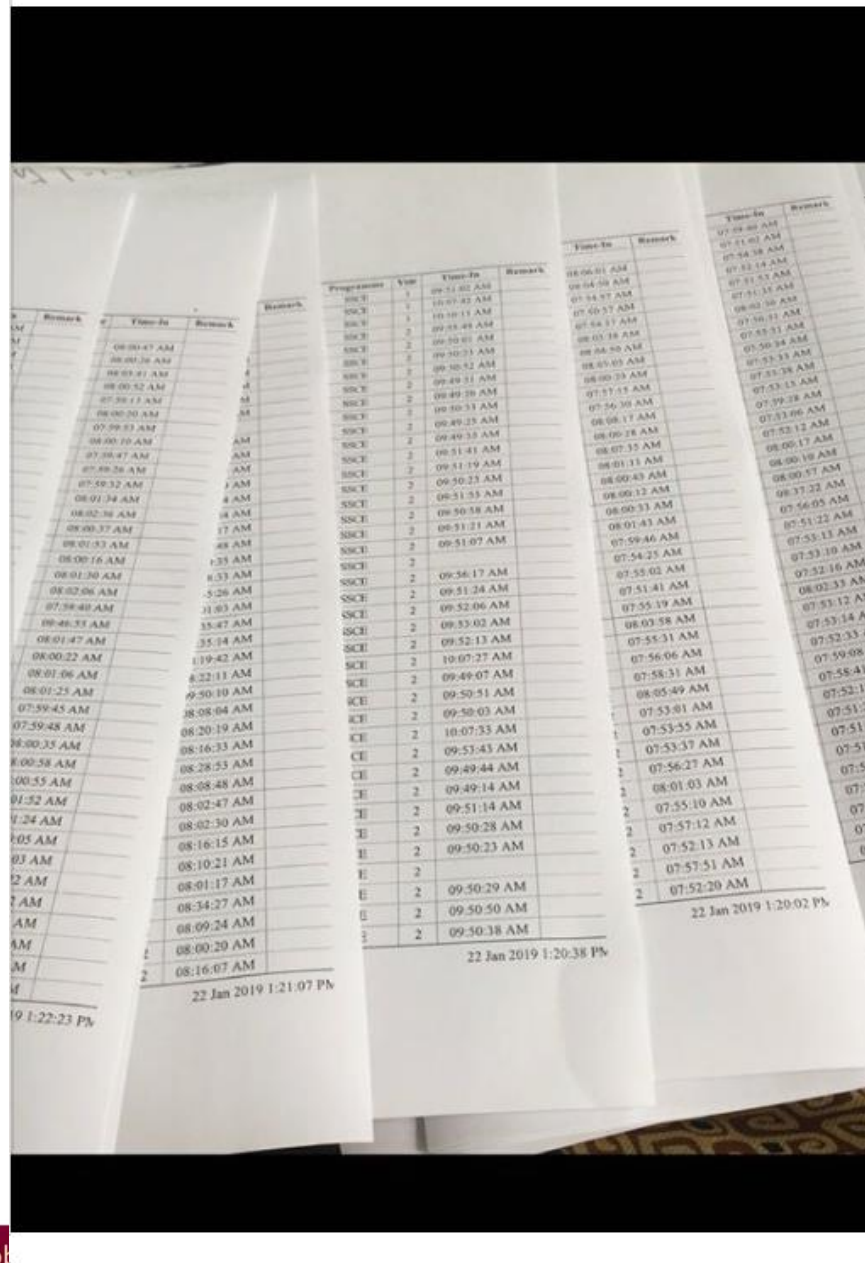


Statistik Pencapaian Keseluruhan

Min Anda : 4.68
 Min Fakulti : 4.56
 Min Universiti : 4.53
 Rank Anda Di UTM : P4

Educator 4.0 .. almost full attendance and never misses / cancel the classes. Proven? UTMSMART

Proof ?



22 Jan 2019 1:20:38 PM

22 Jan 2019 1:20:02 PM

22 Jan 2019 1:21:07 PM

22 Jan 2019 1:22:23 PM

Class Attendance

SessionSemester: 201820191

Date-Time : 13 DEC 2018 08:00 AM

12 DEC 2018 10:00 AM
06 DEC 2018 08:00 AM
05 DEC 2018 10:00 AM
29 NOV 2018 08:00 AM
28 NOV 2018 10:00 AM
22 NOV 2018 08:00 AM
21 NOV 2018 11:00 AM
15 NOV 2018 08:00 AM
14 NOV 2018 10:00 AM
01 NOV 2018 08:00 AM
31 OCT 2018 10:00 AM
25 OCT 2018 08:00 AM
24 OCT 2018 10:00 AM
18 OCT 2018 08:00 AM
17 OCT 2018 10:00 AM
11 OCT 2018 08:00 AM
10 OCT 2018 10:00 AM
04 OCT 2018 08:00 AM
03 OCT 2018 10:00 AM
27 SEP 2018 08:00 AM
26 SEP 2018 10:00 AM
13 SEP 2018 08:00 AM
12 SEP 2018 10:00 AM

Class Attendance

SessionSemester: 201820191

Date-Time : 18 DEC 2018 11:00 PM

16 DEC 2018 02:00 PM
11 DEC 2018 11:00 AM
09 DEC 2018 02:00 PM
04 DEC 2018 11:00 AM
02 DEC 2018 02:00 PM
27 NOV 2018 11:00 AM
25 NOV 2018 08:00 AM
25 NOV 2018 02:00 PM
18 NOV 2018 02:00 PM
13 NOV 2018 11:00 AM
30 OCT 2018 11:00 AM
28 OCT 2018 02:00 PM
23 OCT 2018 11:00 AM
21 OCT 2018 02:00 PM
16 OCT 2018 11:00 AM
14 OCT 2018 02:00 PM
09 OCT 2018 11:00 AM
07 OCT 2018 02:00 PM
02 OCT 2018 11:00 AM
30 SEP 2018 02:00 PM
25 SEP 2018 11:00 AM

Simple and fast but high impact: **Why not educator 4.0?**



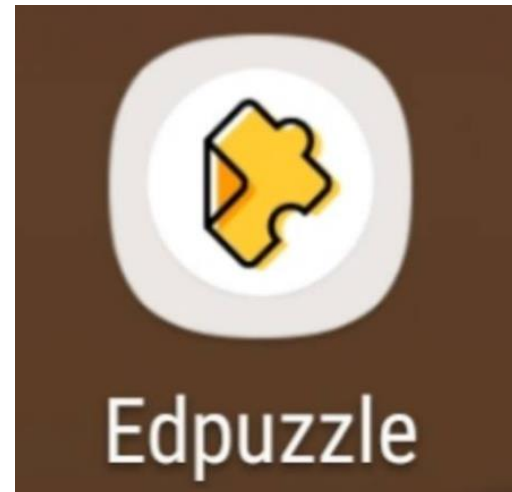
23 October at 23:41 · 🌐 ▼

What is a tool to support my plenary talk at the International Fundamental Science Congress (iFSC 2018) today? Yes, Educator 4.0. A series of a video presentation based on Powtoon and Screencast. Why? I make a preparation in a short time period. Life comes easy nowadays...Do you know that After Effect, Video Maker or other high quality video software spend 2-3 hours to create a simple video?



Handling workloads : teaching and research

My KPI for teaching is 20% however for this semester the teaching load is 60%. My KPI for research is 80 %. Now, the Total workload is 140 %. Overload. So how to handle my teaching load? Alhamdulillah. By Educator 4.0. For example, Today, I was fulfilled an invitation as a plenary speaker at iFSC2018, UNITEN. Selangor. So, how to handle my class at UTM Johor concurrency? How to make sure, I am not canceling my class today? I am using a tool of Educator 4.0. Activities- online attendance, online video - exercise, online forum, online holistic question. Look and see how I setup it.



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Longer workshop session

Do you think a longer workshop session will be successful without involving emotional intelligence elements ? The answer is NO. How to conduct an interactive workshop? I introduce the main topic of the workshop using video, explain the content using PowerPoint, implement the content using hands-on practise and video approach. Then, testing their knowledge using online quiz. Alhamdulillah , from their face shows that the integrated Educator 4.0 software produce intelligence impact to the 118 participants of UTM Terengganu students and staffs.



Event virtually

Data Technology helps us to collaborate efficiently . Difference platform, difference network, difference region , difference boundary and difference view. Many issues were settled manually in ISHU 2018, China 🇨🇳 . Next, After this , all issues will be solved virtually. Expecially , to organize ISHU 2019 virtually .

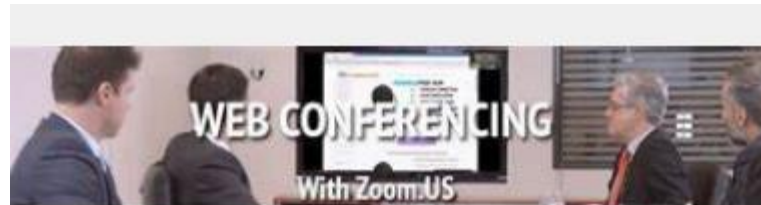


Video Conference

HOME CALL FOR PAPER PUBLICATIONS SUBMISSION REGISTRATION & PAYMENT WORKSHOP ▾ DATE & VENUE
VIDEO CONFERENCING GALLERY CONTACT US

INTERNATIONAL VIRTUAL
CONFERENCE IN
MULTIDISCIPLINARY
METHOD AND MODEL
2017

zoom 
Video Conferencing



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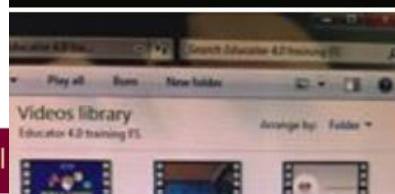
Video Cutter, Joiner, Trimmer and Splitter



Norma Alias

27 October · 🌐 ▼

Time for knowledge sharing. Preparation for tomorrow workshop on “ how to learn digital Educator 4.0”. Look! Full attendance. **Bandicut Software** helps me to address the important issues in Educator 4.0 for tomorrow seminar.



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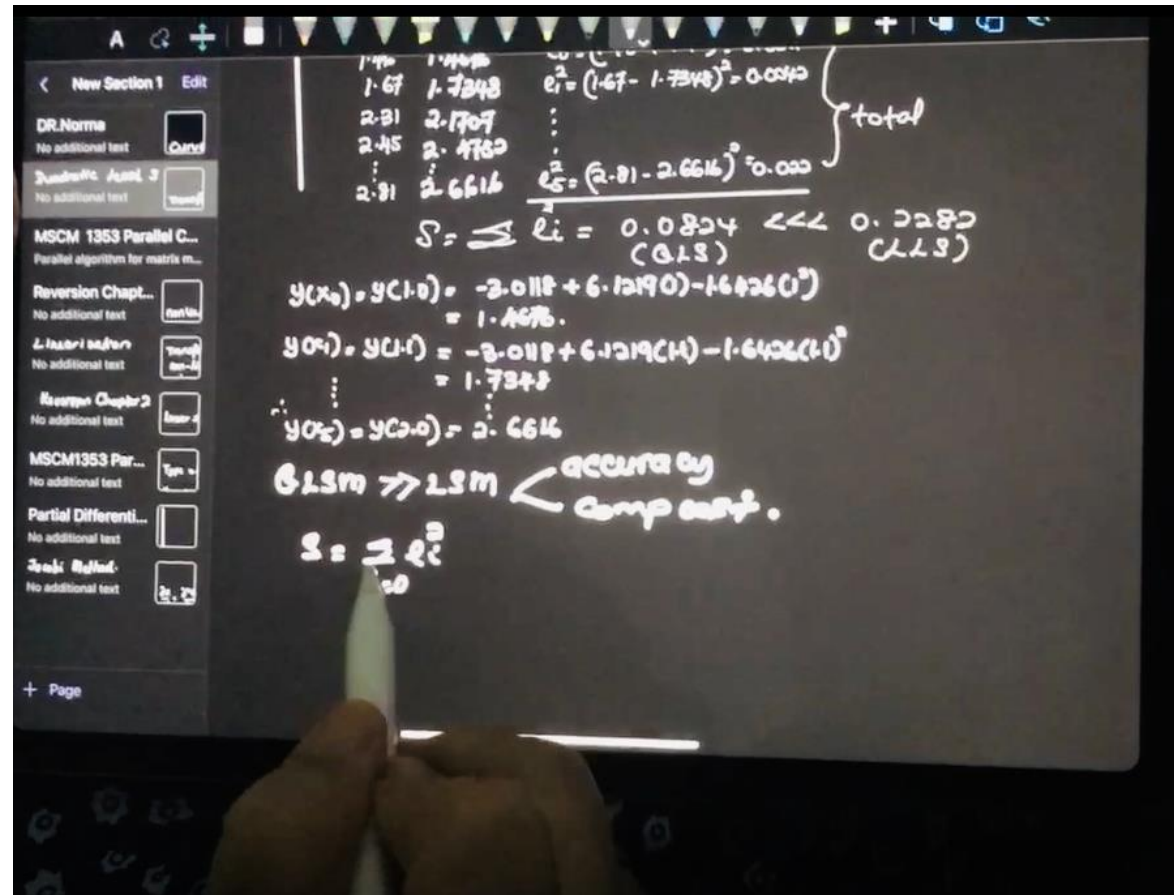
Process of Implementation Video

OneNote- write note, record the writing and voice

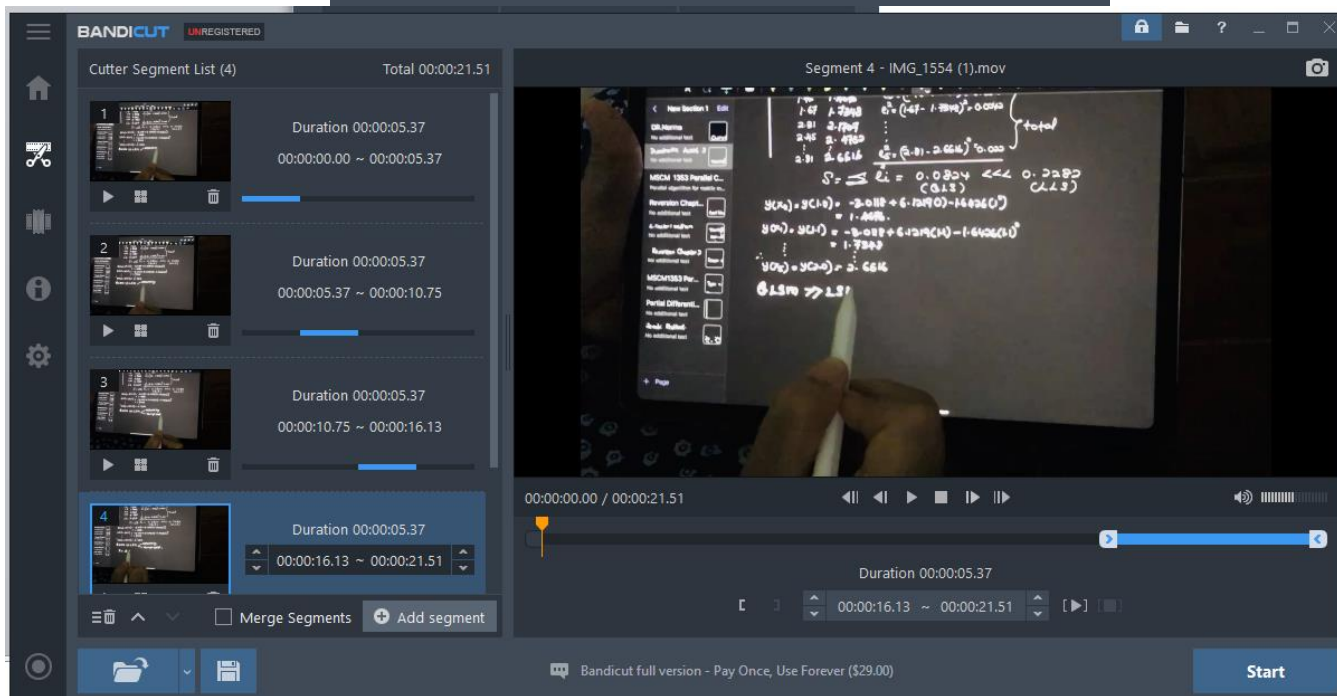
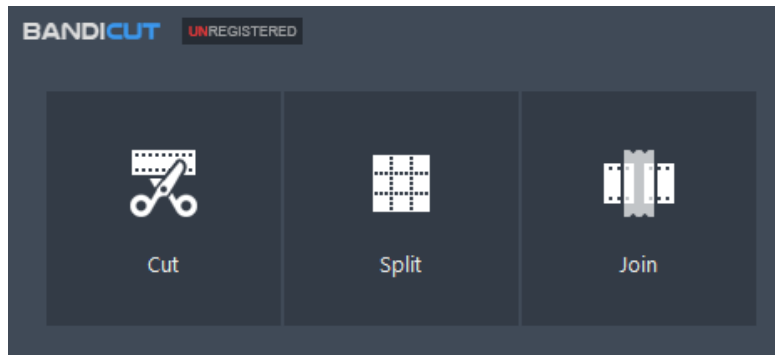


Microsoft

OneNote



video editing



SCREENCAST
MATIC

+ [please submit here](#) ✎

+  [assignment 1 instruction elements -submit by group](#) ✎

+ **5 April - 11 April** ✎

+  [note 1 parallel matrix multiplication in pdf](#) ✎

+  [note 2 parallel matrix multiplication in pdf](#) ✎

+  [content of parallel matrix multiplication \(klik for the video 1\)](#) ✎

+  [parallel matrix multiplication \(click for the video 2\)](#) ✎

+  [How to watch the video via YouTube \(Click here\)](#) ✎

+  [lots check your understanding after lecture \(click here for the question\)](#) ✎

+  [I appreciate for your motivation. Get your e-certificate for your understanding](#) ✎



Edit  ☒

Edit  ☒

Edit  ☒

Edit  ☒

 Add an activity or resource

Upload digital teaching material at UTM e-learning

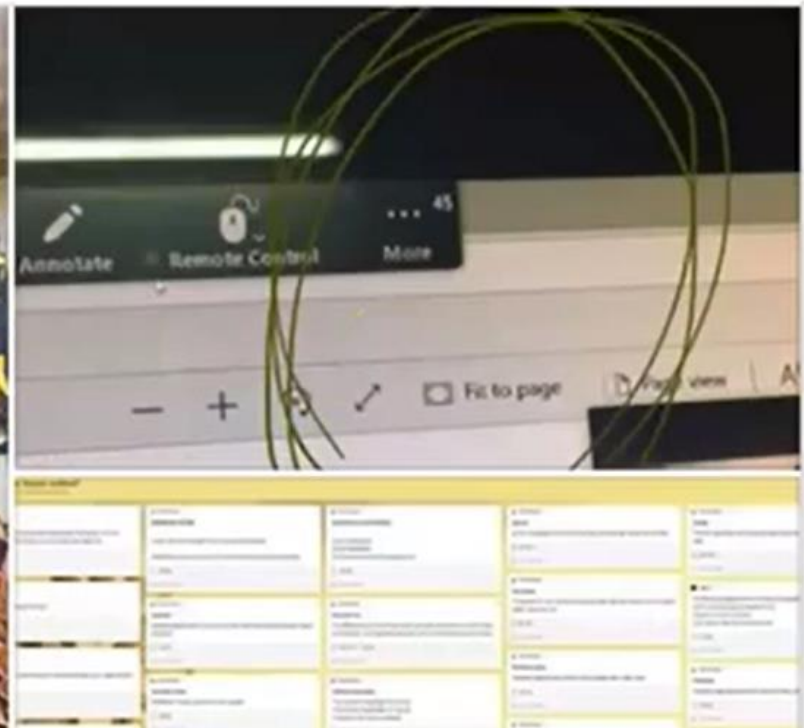
Type of data

- Database- videos
- Document file- pdf, doc, excel
- photo – JPEG images
- Links

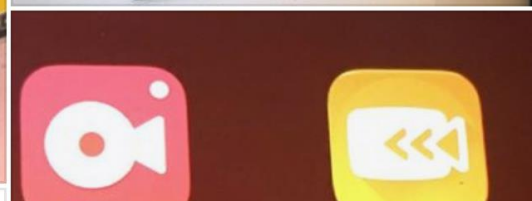
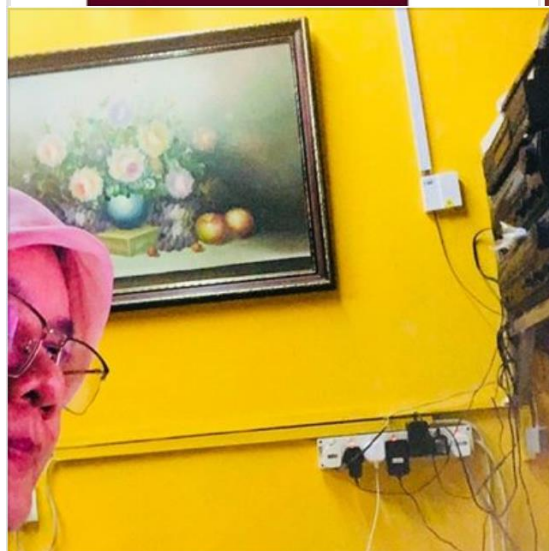
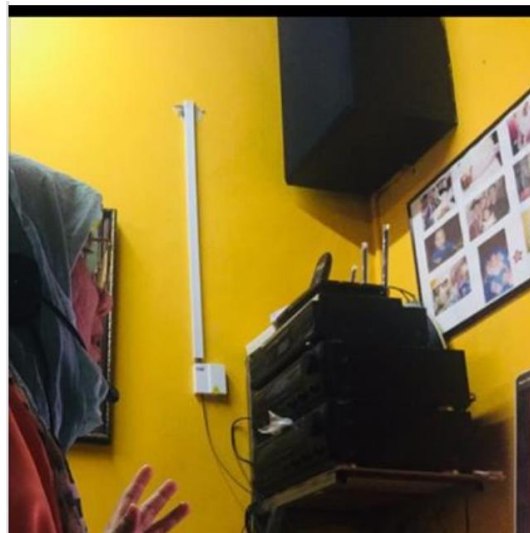
3 types of internet connection

Video Conferencing

Testing internet connection and categories the students based on the connection slow, medium and fast










zoom.us for video conferencing WhatsApp for slow network



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Student feedback

Submission Assignment-e-learning
 Comments- Whatsapp
 Online Quiz – database

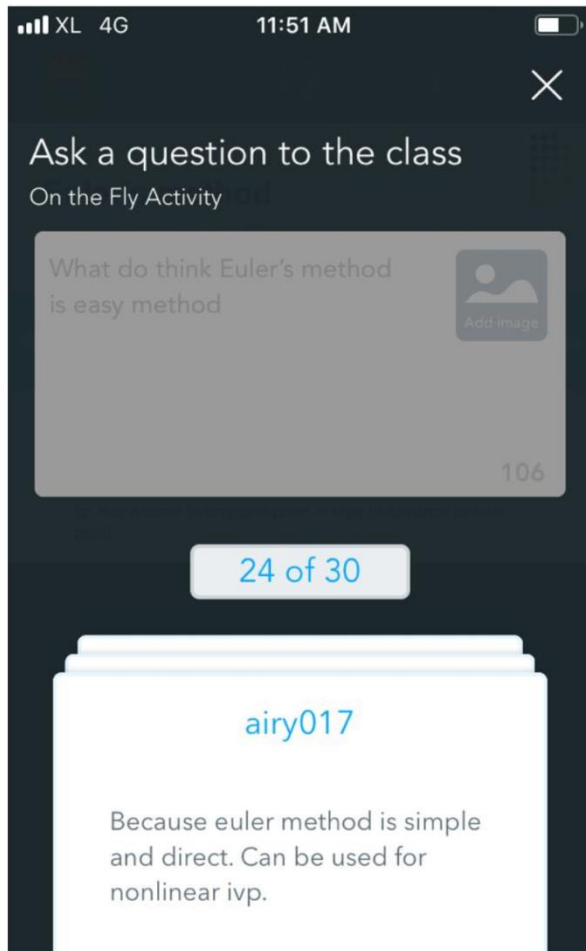
<input type="checkbox"/>		SITI AZELA BINTI MAZLAN B18KA0022	sitiazela@graduate.utm.my	Submitted for grading	Grade	Edit ▾	Thursday, 9 April 2020, 12:38 PM	 Siti_azela_bt_mazlan_B18KA0022.pdf 9 April 2020, 12:38 PM	+ Commer (0)
<input type="checkbox"/>		SUREISS A/L MUNNUSAMY B18KA0024	sureiss.m@graduate.utm.my	No submission Assignment is overdue by: 4 days 16 hours	Grade	Edit ▾	-		
<input type="checkbox"/>		UMESWARAN A/L LETCHUMANAN B18KA0027	umeswaran@graduate.utm.my	Submitted for grading	Grade	Edit ▾	Thursday, 9 April 2020, 12:43 PM	 Umeswaran_Test1.pdf 9 April 2020, 12:43 PM	+ Commer (0)
<input type="checkbox"/>		TEH WEN XIONG B18KA0026	wxteh1997@graduate.utm.my	Submitted for grading	Grade	Edit ▾	Thursday, 9 April 2020, 12:18 PM	 TEH WEN XIONG.pdf 9 April 2020, 12:18 PM	+ Commer (0)

Educator 4.0 Software for FREE

Educator 4.0 classification



Mobile learning-Nearpod



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ProProfs

ProProfs
Brain Games

Create ▾ Puzzles ▾ Word Games ▾ Word Search ▾ Crossword ▾ Jigsaw ▾ Family Fun ▾



Online Brain Games & Puzzles

Create or play exciting online puzzles and mind games



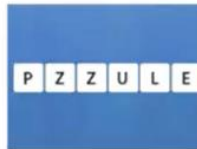
Word Search



Crossword



Hangman



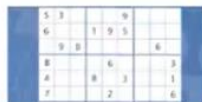
Word Scramble



Chess



Tic Tac Toe



Research Methodology

journal paper for PSM

Anonymous 23d

So next Monday have class
research methodology ?

♥ 1

Add comment

Anonymous 23d

Bila boleh tau supervisor kita
siapa? Nak start kaji dan
baca artikal semasa semester
break boleh?

♥ 1

1 comment

Anonymous 23d
Wow.. Rajinnya

Anonymous 23d

Apa beza journal dengan
research paper?

♥ 0

1 comment

Anonymous 23d
Maksudnya soft copy dengan hard
copy ?

Add comment

NORMA BT ALIAS FS 23d

**How to convert your
research project to the
journal paper**

Any Question?

Anonymous 23d

I prefer practical rather than
just study.Because we can
learning something from
mistakes that we done. Is this
subject have any practical
assignment ?

♥ 0

Add comment

Anonymous 23d

Yg model kena cipta sendiri ke ?
tak boleh rujuk internet ?
Macam mana kita nak pastikan
model kita betul and tidak
tertinggal sebarang parameter

Anonymous 23d

Hebatnya Dr norma ,hidup
dengan teknologi yg terkini 🙌🙌

♥ 1

4 comments

Anonymous 23d
Education 4.0 🙌

Anonymous 23d
Diamla ammar

Anonymous 23d
Ammar ke ?

Anonymous 23d
Yang komen ini baru Ammar.
Hehehe...

Add comment

Anonymous 23d

Apa sebenarnya tujuan kita buat
research paper? Berguna ke
dalam daily life? student2 yang
dulu punya paper mcm tkde
kegunaan pun utk kita semua.

♥ 1

Add comment

Anonymous 23d

Saya ada masalah cepat lupa,
macam subject dulu yg belajar,
saya dah lupa. Semua formula
dah lupa.macam mana saya
survive dalam research intern.
Boleh bawa buku ke tempat

edpuzzle

Videos



0:49



Sen. Mark Warner on bomb investigation, Trump, and...



2:39



644



0:13



Recording #11



0:40



wipi_2017_patents



1:43



The Architects of the Future – Big Data, Cyber Security, Cloud...



9:55



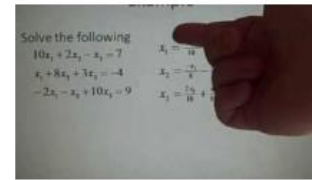
MATLAB Tutorial Part 6 Bisection Method Root finding



6:26



MATLAB Tutorial Part 6 Bisection Method Root finding



6:34



Iterative Jacobi and Gauss-Seidel methods

<https://edpuzzle.com/content>

Edpuzzle

edpuzzle

Content

Gradebook

My Classes



My Classes

mathematics

numerical class

02

security

• ssce2393

Add new class



Import from
Google Classroom

mathematics

Invite students

Class options

Due Assignments

No Due Date

Students

In progress

Assignment



The Architects of the Future – Big Data, Cyber Security and e-Health



Iterative Jacobi and Gauss-Seidel methods

edpuzzle



Iterative Jacobi and Gauss-Seidel methods

Edit name

Students

Questions

01:01

Open Ended question

What is the condition of a_1, a_2, a_3 to govern the $x = Tx + c$?

01:41

Open Ended question

If k is the iteration, how to derive the Jacobi method for 3 linear system equations to differentiate between both $x = Tx + C$
In every linear of equation write which x for (K) and $(K+1)$.

02:48

Open Ended question

Can we choose other initial value other than $x = (0,0,0)$?
What is your suggestion of initial value?

04:04

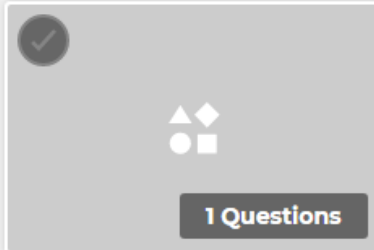
Open Ended question

If convergence criterion = 0.5, What is the predicted number of iterations for convergence?

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Kahoots

Kahoots (3) [Create new](#)



Can you answer today exercise?



[normaalias](#)

Created 26 days ago • 1 plays



[Visible to everyone](#)

Play

Challenge



What is numerical method?



[normaalias](#)

Created about 1 month ago • 3 plays



[Visible to everyone](#)

Play

Challenge



write 2 numerical methods for solving non-linear system



[normaalias](#)

Created about 2 months ago • 10 plays



[Visible to everyone](#)


Play


Challenge


<https://create.kahoot.it/login>


Quizizz


<https://quizizz.com/admin>


**Lagrange interpolation** (2 Qs)
▶ Played 114 times 📖 University
👤 created 20 days ago by [normaalias](#)
[Like](#) [Add](#)


**compare methods** (1 Qs)
▶ Played 57 times 📖 University - 12th
👤 created a month ago by [normaalias](#)
[Like](#) [Add](#)

**direct method** (1 Qs)
▶ Played 58 times 📖 University
👤 created a month ago by [normaalias](#)
[Like](#) [Add](#)

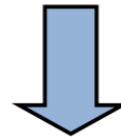
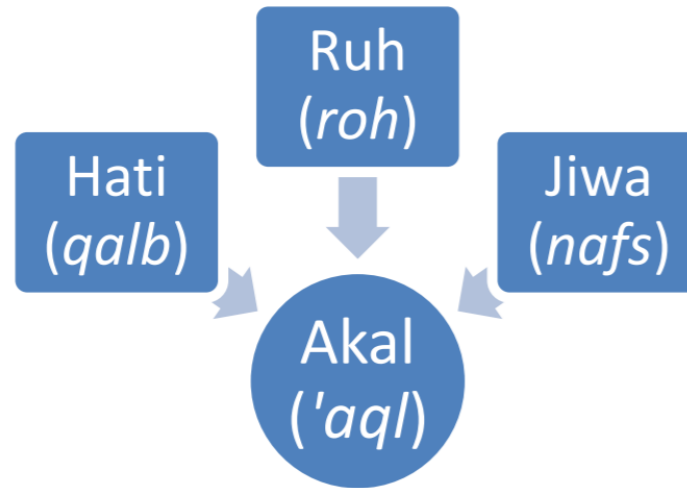
**linear system equation** (1 Qs)
▶ Played 60 times 📖 University
👤 created a month ago by [normaalias](#)
[Like](#) [Add](#)

**non linear system** (1 Qs)
▶ Played 57 times 📖 University
👤 created a month ago by [normaalias](#)
[Like](#) [Add](#)

**How many element involve to develop upper triangular matrix of A** (1 Qs)
▶ Played 68 times 📖 University
👤 created a month ago by [normaalias](#)
[Like](#) [Add](#)

**Gauss elimination** (2 Qs)
▶ Played 57 times 📖 University
👤 created a month ago by [normaalias](#)
[Like](#) [Add](#)

Intellectual aspect



Knowledgeable (*al-quwwah al-nathiqah*)



Wisdom (*Hikmah*)



Choice for the intellectual

Conclusion

- Challenges of the IR4.0 are addressed to the online Science Subjects
- **FREE** has new initiatives as part of its effort to cultivate holistic
- Learning and Teaching 4.0 should be **redesigned**, cybergogy, innovation and new areas of knowledge , latest learning and teaching technologies
- Integrating ‘learning science social without lectures’ concept and ‘**evaluation without examinations**’
- Idea of merging academia and industry to **benefit humanity** in the long run via FREE.
- Holistic value need for **humanizing** Education 4.0 via online class

Thank you
normaalias@utm.my