UNIVERSITAS
GADJAH MADA

Strategi Pendidikan "Merdeka Belajar" untuk Generasi Post-Millenial

Hatma Suryatmojo

Pusat Inovasi dan Kajian Akademik

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0812-274-2726

Hatma Suryatmojo

mayong_hs

hsuryatmojo@ugm.ac.id

Webex Teams

m@y0n6

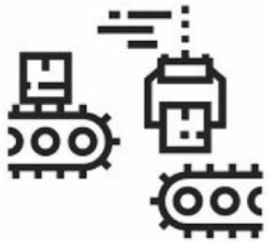
Industrialization

INDUSTRY 1.0

Mechanization, steam power, weaving loom

1784

Electrification



INDUSTRY 2.0

Mass production, assembly line, electrical energy

1870

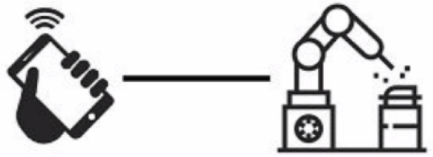
Digitalization

INDUSTRY 3.0

Automation, computers and electronics

1969

Smartization



INDUSTRY 4.0

Cyber physical systems, internet of things (IoT), networks

Today

Indonesia has **the largest student age population** in ASEAN

Estimated that 65% of children entering primary school today will **have jobs that do not yet exist**, and for which their education is not currently able to prepare them

Estimated that 70% of Indonesia's population will be working-age adults by 2030

Sumber: Accenture.com

Top 10 Skills

In 2020

1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others
6. **Emotional Intelligence**
7. Judgment and Decision Making
8. Service Orientation
9. Negotiation
10. **Cognitive Flexibility**

In 2015

1. Complex Problem Solving
2. Coordinating with others
3. People Management
4. Critical Thinking
5. Negotiation
6. Quality Control
7. Service Orientation
8. Judgment and Decision Making
9. Active Listening
10. Creativity

Sumber: Future of Jobs Report, World Economic Forum

Jobs Landscape in 2022

Top 10 Emerging skills

1. Data Analysts and Scientists
2. AI and Machine learning Specialists
3. General and Operations Managers
4. Software and Applications Developers and Analysts
5. Sales and Marketing Professionals
6. Big Data Specialists
7. **Digital Transformation Specialists**
8. New Technology Specialists
9. Organizational Development Specialists
10. Information Technology Services

133 Million Job Roles

Top 10 Declining

1. Data Entry Clerks
2. Accounting, Bookkeeping and Payroll Clerks
3. Administrative and Executive Secretaries
4. Assembly and Factory Workers
5. Client Information and Customer Service Workers
6. Business Services and Administration Managers
7. Accountants and Auditors
8. Material Recording and Stock Keeping Clerks
9. General and Operational Managers
10. Postal Service Clerks

75 Million Job Roles

Sumber: Future of Jobs Report, World Economic Forum

GENERATION Z

★ BORN 1995-2009 ★

ZEES · GLOBAL GEN · GEN Z · DIGITAL INTEGRATORS · iGEN · CLICK 'N GO KIDS

MOBILITY

17 JOBS · 15 HOMES

IN A LIFETIME*

TOP NAMES

William	1	Lily
Jack	2	Chloe
Jacob	3	Isabella
Lachlan	4	Mia
Oliver	5	Olivia

EFFECTIVE ENGAGEMENT

Verbal	→	Visual
Sit & listen	→	Try & see
Teacher	→	Facilitator
Content (what)	→	Process (how)
Curriculum centred	→	Learner centric
Closed book exams	→	Open book world

EDUCATION

- X 1 in 4
- Y 1 in 3
- Z 1 in 2*

UNIVERSITY EDUCATED

WEALTH

Avg. annual earnings in 2063 (as Gen Z retire)*

$222,000

Average capital city house price (2063)*

$2.5 MIL.

SLANGUAGE

Selfies · Cray cray · Defs · Onesie · YOLO · LOL

HEALTH

…ely to be obese/ …weight when all Z have reached …hood (2027)*

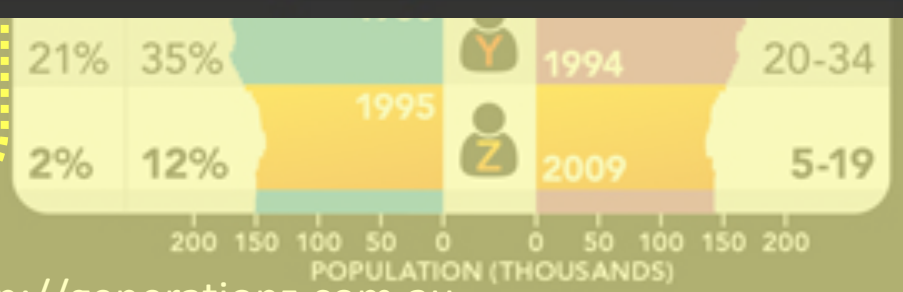
7.9 · 61.8

GLOBAL GENERATION

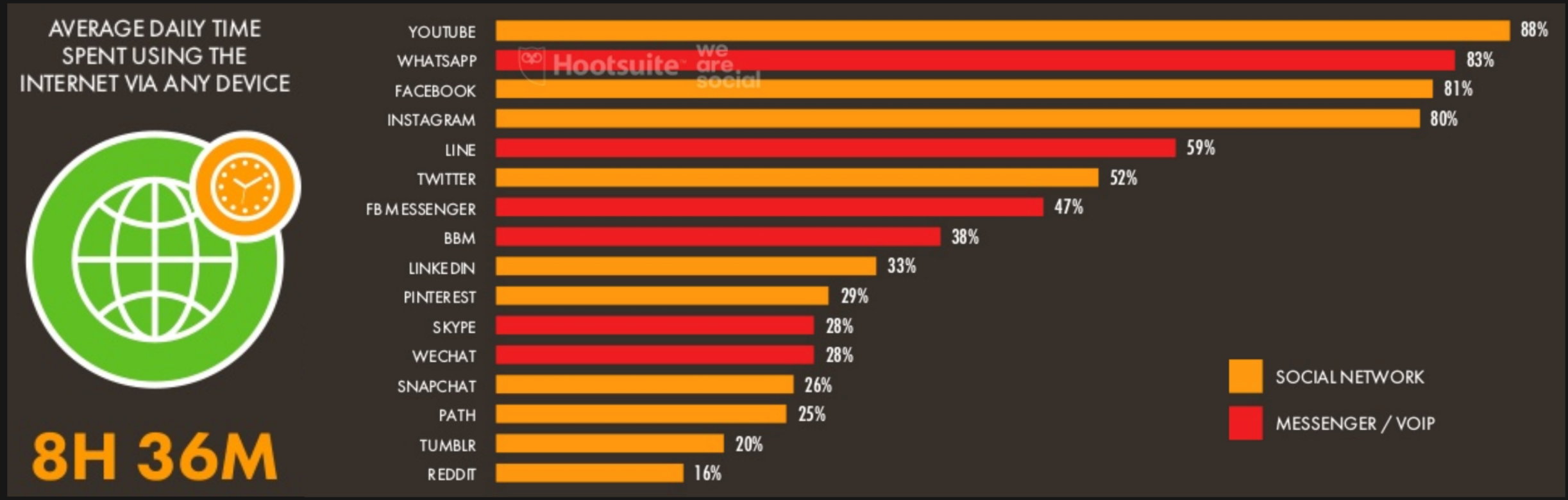
2,000,000,000 2 BILLION GEN Zs

COUNTRIES WITH LARGEST NUMBER

REDEFINED LIFESTAGES



Source: http://generationz.com.au


AVERAGE DAILY TIME SPENT USING THE INTERNET VIA ANY DEVICE
8H 36M
Hootsuite
we are social
YOUTUBE 88%
WHATSAPP 83%
FACEBOOK 81%
INSTAGRAM 80%
LINE 59%
TWITTER 52%
FB MESSENGER 47%
BBM 38%
LINKEDIN 33%
PINTEREST 29%
SKYPE 28%
WECHAT 28%
SNAPCHAT 26%
PATH 25%
TUMBLR 20%
REDDIT 16%
SOCIAL NETWORK
MESSENGER / VOIP

JAN 2019

TOP YOUTUBE SEARCH QUERIES IN 2018

BASED ON SEARCHES ON THE YOUTUBE PLATFORM THROUGHOUT 2018

#	SEARCH QUERY	INDEX
01	LAGU	100
02	FILM	45
03	DJ	27
04	LIVE	25
05	LUCU	22
06	COVER	18
07	KARAOKE	15
08	UPIN	15
09	DANGDUT	15
10	UPIN IPIN	14

#	SEARCH QUERY	INDEX
11	SABYAN	11
12	FILM INDONESIA	10
13	TIK TOK	10
14	BTS	10
15	VIA VALLEN	9
16	BLACKPINK	9
17	MOBILE LEGEND	9
18	TAYO	8
19	LAGU ANAK ANAK	8
20	NELLA KHARISMA	8

SOURCE: GOOGLE TRENDS (ACCESSED JANUARY 2019); KEPIOS ANALYSIS. **NOTES:** GOOGLE DOES NOT PUBLISH SEARCH VOLUMES, BUT THE 'INDEX' COLUMN SHOWS RELATIVE VOLUMES FOR EACH QUERY COMPARED TO SEARCH VOLUMES FOR THE TOP QUERY (AN INDEX OF 50 MEANS THAT THE QUERY RECEIVED 50% OF THE SEARCH VOLUME OF THE TOP QUERY).

Hootsuite™ we are social

Para Influencer

Atta Halilintar

19.9M subscribers • 656 videos

YOUTUBER NUMBER ... Business Eng...

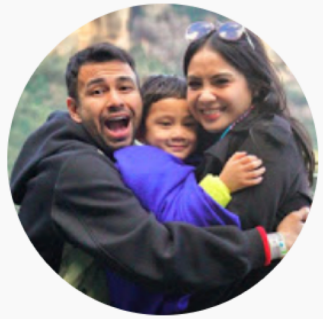
Rp 73 Miliar/tahun

Ricis Official

17.7M subscribers • 753 videos

Ricis Official Real account.

Rp 62 Miliar/tahun



R... Entertainment

11.3M subscribers • 914 videos

RANS ENTERTAINMENT YOUTUBE CHANNEL All about Raffi Ahmad

Rp 70 Miliar/tahun

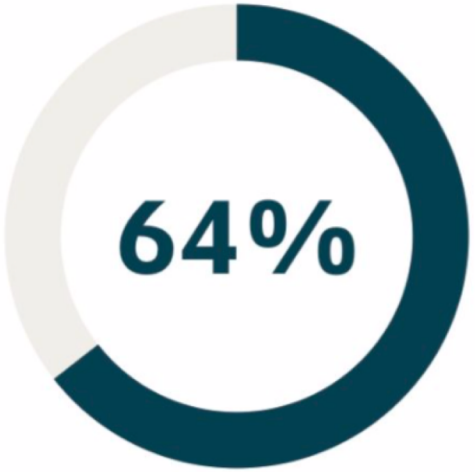
Rp 1,5 juta/post
Rp 35 – 45 juta/bulan

Puluhan ribu video belajar dan ratusan ribu soal khusus untuk kamu!

Tersedia untuk SD, SMP, dan SMA. Dapat diakses melalui Android, iOS, dan PC (Windows dan MacOS).

ruang
guru

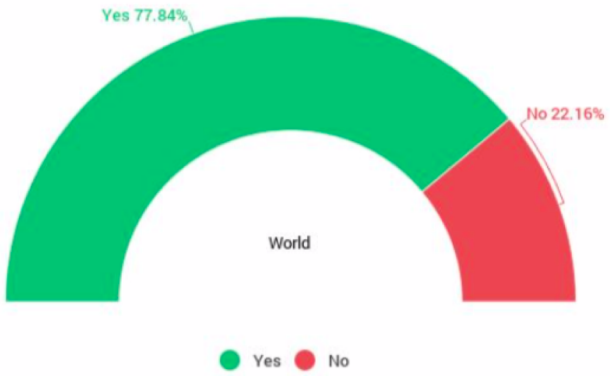
Investasi mereka dan kebutuhan kompetensinya



64% are investing their own money in online training to advance their career

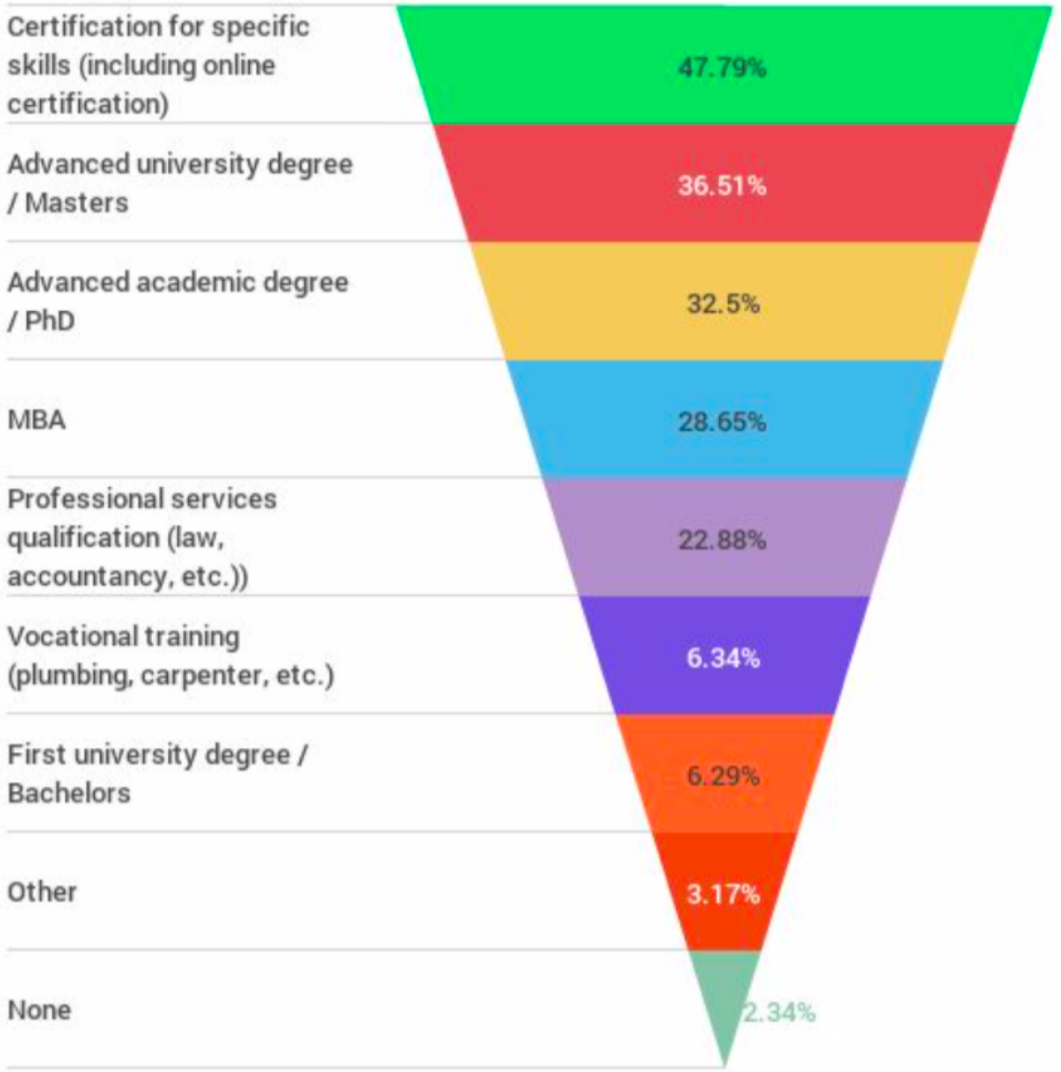
Source: Udemy Report

Have you ever taken an online course?

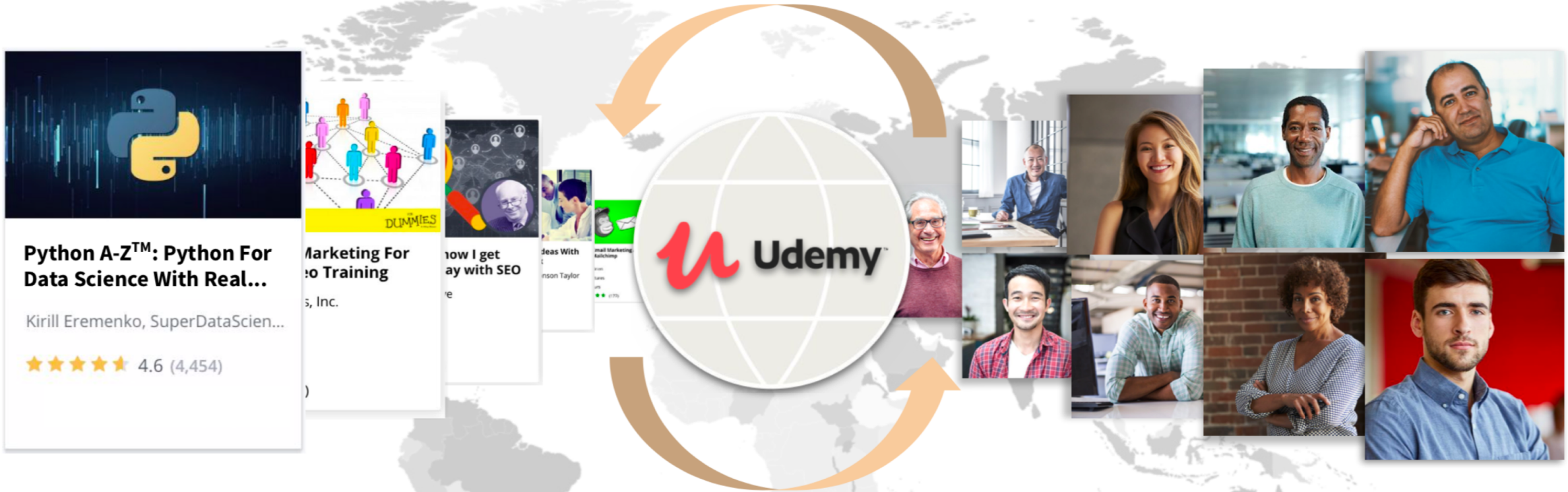


Source: World Economic Forum
https://www.weforum.org/agenda/2016/09/is-online-learning-the-future-of-education/

Once you have started your working career, what kind of additional education would you be willing to pursue? (Multiple choice)



Global Marketplace



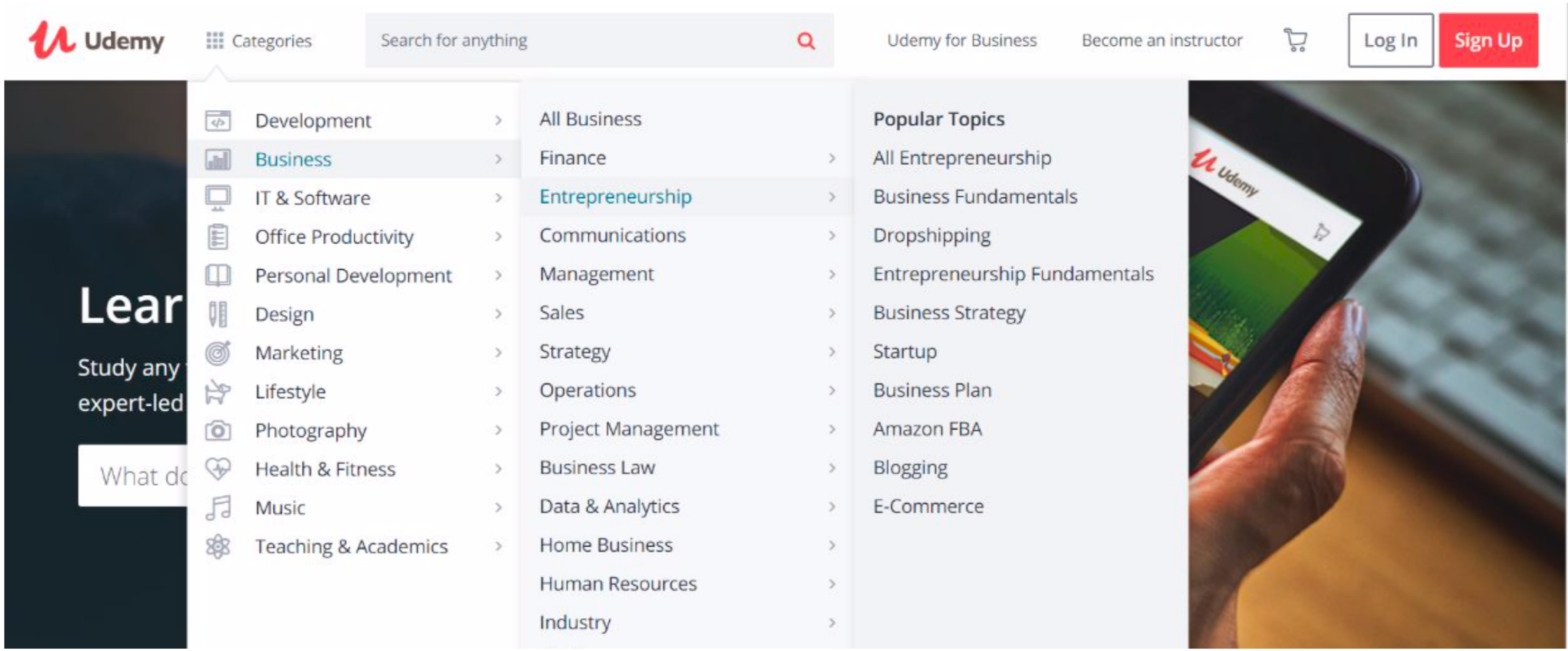
60K instructors

130K courses (in 50+ languages)

40M learners

190 countries

12 Categories



Gift This Course Wishlist

Management Skills: New Manager Training in Essential Skills

Management Skills Certification in Developing People, Leading Teams & Process Improvement

BESTSELLER 4.5 (2,581 ratings) 17,302 students enrolled

Created by Lawrence M. Miller Last updated 12/2016

English English [Auto-generated], Indonesian [Auto-generated], 4 more

Rp182,000

~~Rp2,800,000~~ 94% off

1 day left at this price!

Add to cart

Buy now

30-Day Money-Back Guarantee

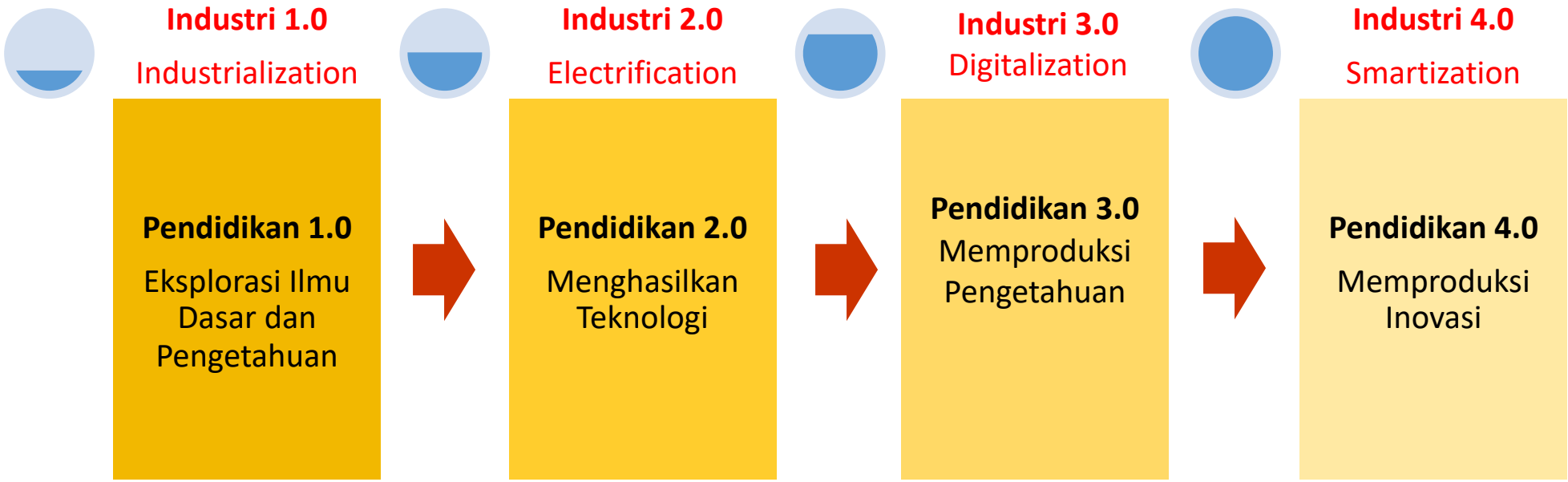
This course includes

- 11 hours on-demand video
- 13 articles
- 26 downloadable resources

What you'll learn

- Motivate your employees and create high engagement and empowerment.
- Lead teams to become high performing teams engaged in continuous improvement.
- Resolve conflicts with others and among team members.
- Provide specific job training for your team members..
- Understand and develop "lean management" problem-solving and process improvement.

Kaitan Revolusi Industri 4.0 dengan Pendidikan 4.0



Pendidikan 4.0 menghubungkan pendidikan di mana semua orang, benda, dan mesin terhubung untuk menghasilkan pembelajaran yang dipersonalisasi (*Personalized learning*). Ekosistem baru ini mengubah lembaga pendidikan menjadi ekosistem penghasil inovasi.

Membangun Ekosistem Pembelajaran Inovatif (Merdeka Belajar) di UGM

Mendorong pemanfaatan **sumber belajar internal dan eksternal**.

Meningkatkan kompetensi abad 21:

Learning skills

Literacy skills

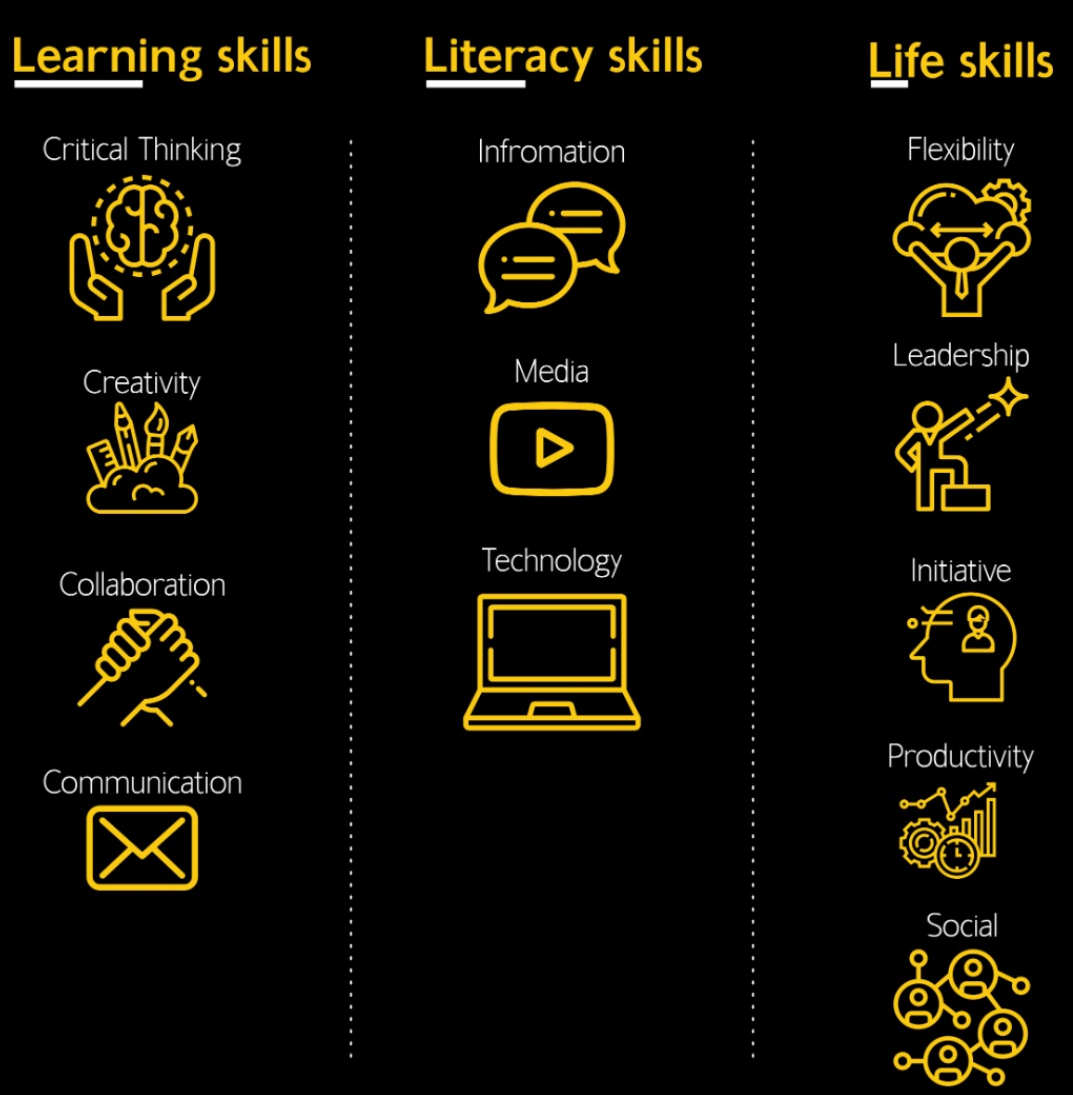
Life skills

Mendorong pembelajaran sepanjang hayat:

e-learning; MOOCs; Kanal pengetahuan, TV UGM

Menghasilkan pengetahuan, teknologi, dan inovasi:

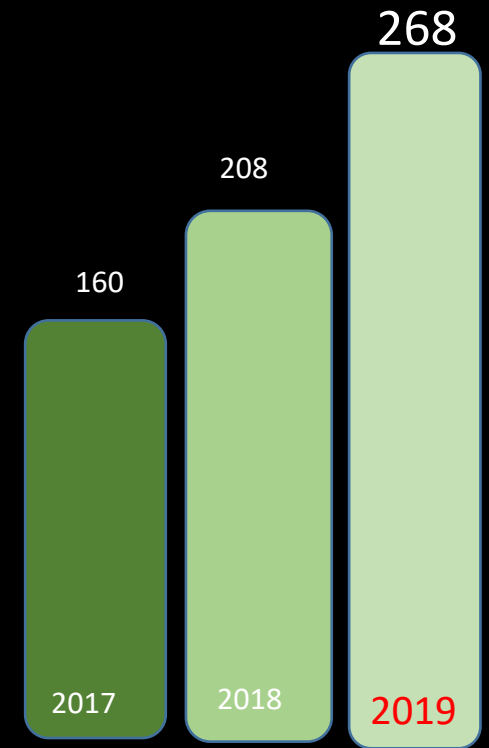
Integrasi tridharma; kompetensi global; lintas disiplin; magang industri; *international mobility & exposure; blended learning; flexible curriculum.*



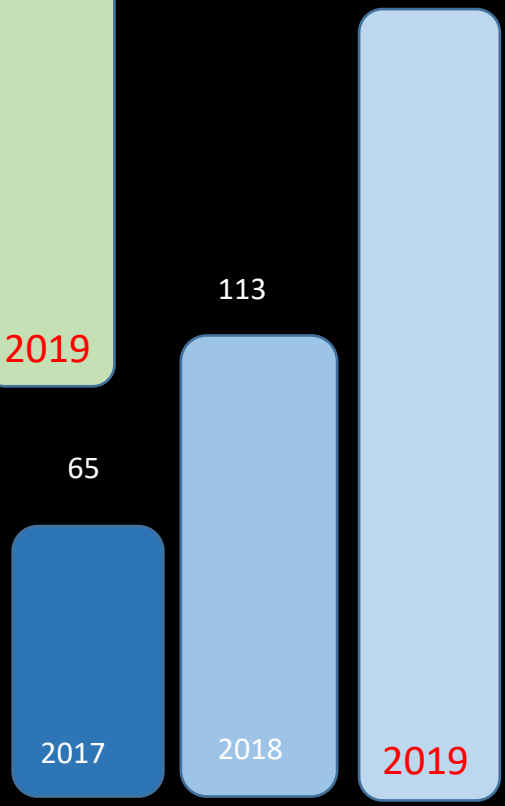
STRATEGI UGM
PENGUATAN INKLUSIVITAS

1 Diseminasi Pengetahuan untuk sumber belajar eksternal

Kanal Pengetahuan - Menara Ilmu

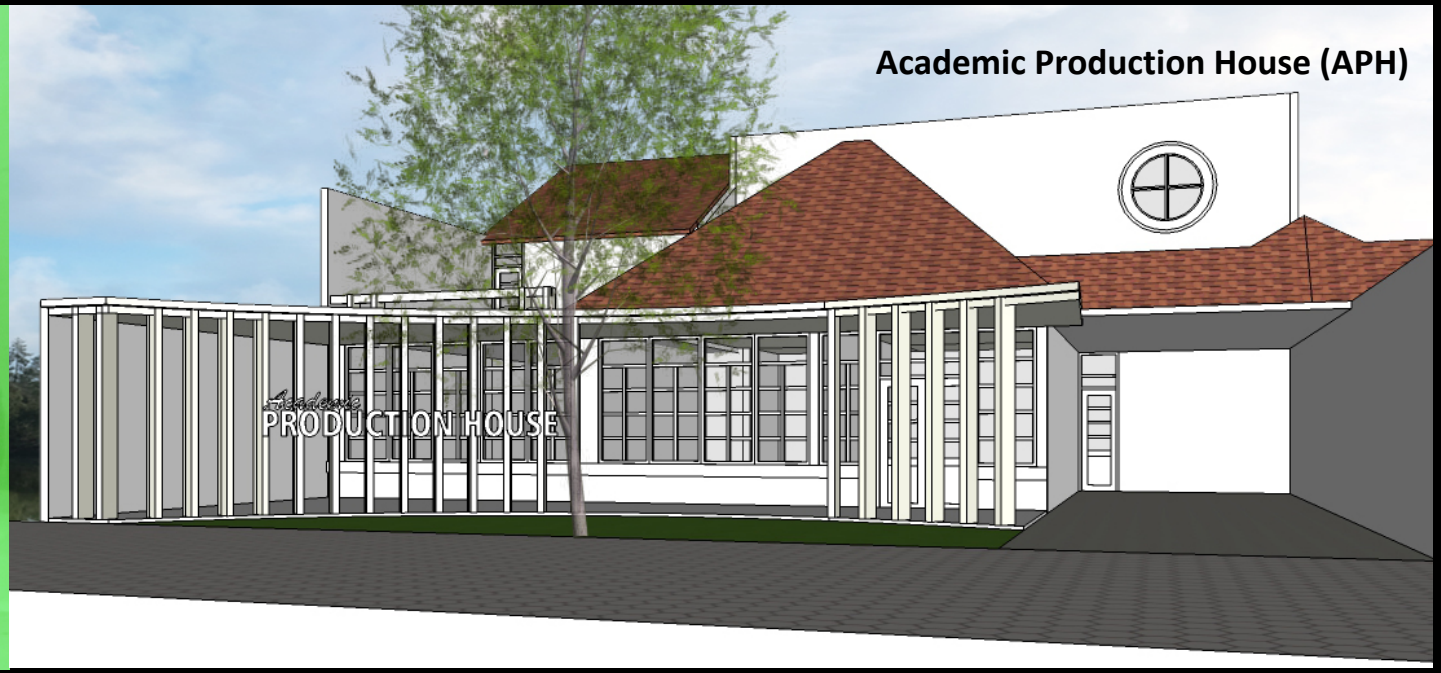


Video Dokumenter



1 Diseminasi Pengetahuan

Menyiapkan infrastruktur (studio mini, peralatan) dan SDM di setiap fakultas dan sekolah sebagai Tim Produksi Audio Visual



Not Secure | channel.ugm.ac.id
Click to go back, hold to see history

Live

Leaders Talk

Jadwal Hari Ini

TUESDAY, 26 NOV 2019

07:00

Kanal Pengetahuan

08:00

Leaders Talk

10:00

Kabar Saintek #1

2 Redesain Kurikulum

- Menyediakan ruang perolehan kompetensi lintas disiplin hingga 40% dari bobot kurikulum
- Mendorong MK baru lintas disiplin (literasi digital, literasi kewirausahaan, literasi kemanusiaan, soft skill, kompetensi global, kompetensi abad 21, SDGs, STEM, HASS, dll)
- Perolehan kompetensi dan keilmuan lintas program studi, lintas departemen, lintas fakultas, dan lintas perguruan tinggi dalam dan luar negeri
- Program pemagangan (internship, immersion), kerjasama dengan industry, pemerintah, BUMN, NGO, wirausaha dll, pelaksanaan 1-6 bulan dengan bobot 4-20 sks
- Revitalisasi Gelanggang Mahasiswa untuk program kewirausahaan sosial, *innovative academy*, *creative hub*, *leadership*, *digital start up* dll yang dapat diakui dalam sks
- Pemanfaatan sumber belajar eksternal (MOOCs) untuk pemenuhan kompetensi dan keilmuan yang dapat diakui dalam sks

3 MOOC (*Massive Open Online Course*)

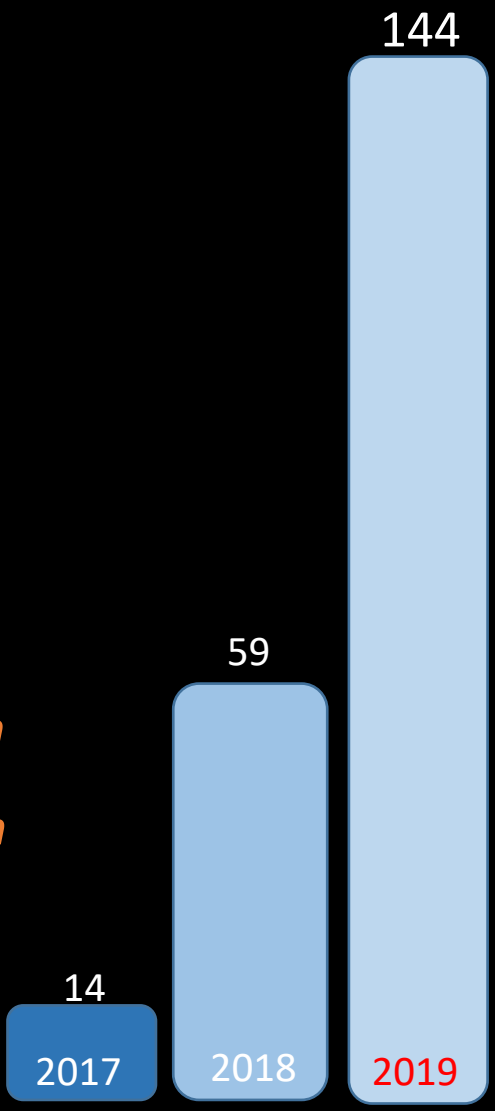
MOOC - eLOK - Pembelajaran Sepanjang Masa

Mata Kuliah Unggulan *fully online*:
TRANSFORMASI DIGITAL

- *No Prior Knowledge*
- *Fully Online*
- *High Accessibility*
- *Webex Online Interaction*
- *Online Assessment System*
- *Various Multi-media Content*

1.000
peserta/semester

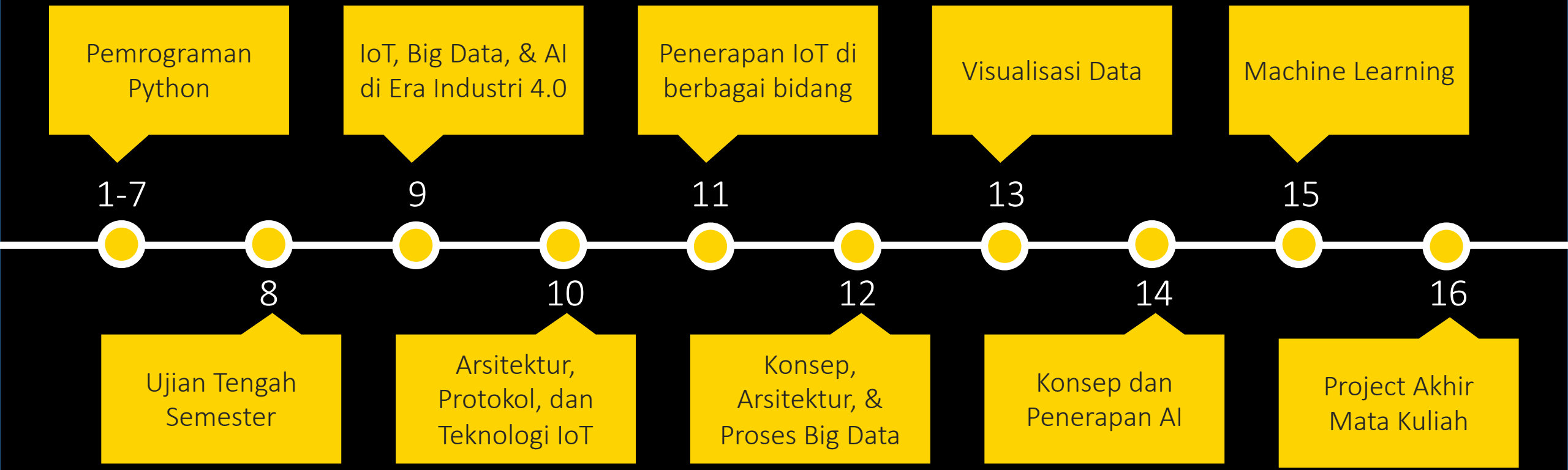
Jumlah MOOC



Mengapa Mata Kuliah Transformasi Digital Ini Penting?

- Isu **Transformasi Digital** di **Semua Bidang**
- Gebrakan **Kompetensi Abad 21** yang diklasifikasikan ***Emerging Skills***
- Mendorong Mahasiswa Menjadi **Pembelajar Sepanjang Hayat**
- Pentingnya Paparan **Lintas Disiplin** Sejak Awal
- Pentingnya **Literasi Teknologi** dan **Literasi Data**
- Lompatan untuk Meningkatkan ***Employbility*** dan ***Digital Talent***

Materi Transformasi Digital (2 SKS)



ADAMAS BELVA SYAH DEVARA
THE BEST
INDUSTRY MARKETING CHAMPION 2019
ruang guru
WISUDA
2019

KEWIRAUSAHAAN SOSIAL

MATA KULIAH LINTAS DISIPLIN KEWIRAUSAHAAN SOSIAL

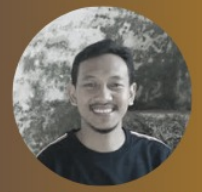
Bayu Dardias, Ph.D
Staf Pengajar DPP Fisipol UGM

Prof. Dr. Pratikno, M.Soc.SC
Mensesneg

Adamas Belva Syah Devara
Co-Founder Ruangguru

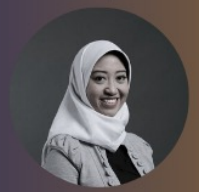
Achmad Zaky
Founder Bukalapak

Nanang Chalid
VP Tokopedia



Muhammad Ghufron Mustaqim
Co-Founder Evermos

Putri Tanjung
Founder Creativepreneur
Event Creator



Ayu Kartika Dewi
Founder Sabang Marauke

Angkie Yudistia
Founder Thisable

... dan belasan pelaku startup lainnya
Info lebih lanjut, cek
http://kewirausahaansosial.com

Untuk mahasiswa UGM, mahasiswa kampus lain, dan masyarakat umum

SERI KULIAH INI DISELENGGARAKAN OLEH

Departemen Politik & Pemerintahan
Fakultas Ilmu Sosial & Ilmu Politik
Universitas Gadjah Mada, Indonesia

DIDUKUNG OLEH

Pusat Inovasi & Kajian Akademik
Universitas Gadjah Mada, Indonesia

4 Ekosistem Pembelajaran Inovatif

FOKUS:
***Out-comes Based Education* (OBE)**
Innovative Learning Methods
Innovative Learning Material
Innovative Learning Space

PENCAPAIAN:
Ikatan dengan mahasiswa
Optimalisasi Multi-media
Kreatifitas metode pembelajaran
Proses belajar mengajar inovatif

5 Co-Learning space

6 Blended Learning

KEPUTUSAN REKTOR UNIVERSITAS GADJAH MADA
NOMOR 463/UN1.P/KPT/HUKOR/2019
MEMUTUSKAN:

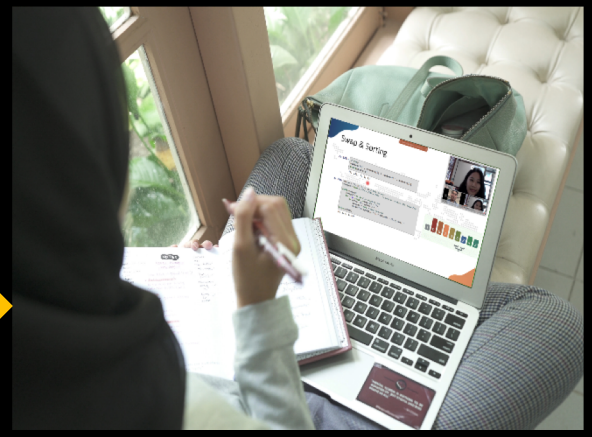
Menetapkan : KEPUTUSAN REKTOR TENTANG PERUBAHAN ATAS KEPUTUSAN REKTOR UNIVERSITAS GADJAH MADA NOMOR 825/UN1.P/SK/HUKOR/2018 TENTANG PENGGUNAAN METODE *BLENDED LEARNING* DALAM PEMBELAJARAN DI LINGKUNGAN UNIVERSITAS GADJAH MADA.

KESATU : Mengubah Diktum KEEMPAT Keputusan Rektor Universitas Gadjah Mada Nomor 825/UN1.P/SK/HUKOR/2018 sehingga berbunyi sebagai berikut:

KEEMPAT : Pelaksanaan pembelajaran interaktif daring sebagaimana dimaksud dalam Diktum KEDUA dilakukan melalui tatap muka daring dengan bobot paling banyak 40% (empat puluh persen) dari jumlah pertemuan yang direncanakan dalam RPKPS dan materi pembelajaran harus bisa diakses mahasiswa melalui *Learning Management System.*

KEDUA : Keputusan ini mulai berlaku pada Semester Genap Tahun Akademik 2018/2019.

Pembelajaran interaktif dalam jaringan **berbobot paling banyak 40% dari jumlah pertemuan yang direncanakan dan memanfaatkan *Learning Management System.***



Kajian terhadap beberapa produk teknologi untuk interaksi dalam jaringan antara dosen dan mahasiswa.

Teknologi Cisco Webex menjadi rekomendasi untuk dimanfaatkan di UGM

	Hangouts	Zoom	Ms Teams	Webex
KEMAMPUAN LAYANAN				
Kapasitas *Meeting*	10	500	250	1025+
Kapasitas *Webcast*	Tidak disebutkan	100-10.000	10.000	40.000+
Cloud, on-premises, and hybrid deployment	✗	✗	✓	✓
Perekaman *MPEG 4*	✗	✓	✓	✓
Integrasi Penyimpanan Konten	✗	✓	✓	✓
INOVASI				
Fitur *Team collaboration*	✗	✗	✓	✓
Background noise detection	✗	✗	✗	✓
FITUR *MOBILE*				
Penjadwalan	✗	✗	✓	✓
Native sharing	✗	✓	✗	✓
KEAMANAN				
Antisipasi peserta tidak hadir	✗	✗	✗	✓
Keamanan Konten	✗	✓	✓	✓
PENJADWALAN				
Kesederhanaan Penjadwalan	terbatas	✗	terbatas	✓
One-button join	terbatas	✓	terbatas	✓
KUALITAS VIDEO				
Best-in-class video endpoints	✗	✗	✗	✓

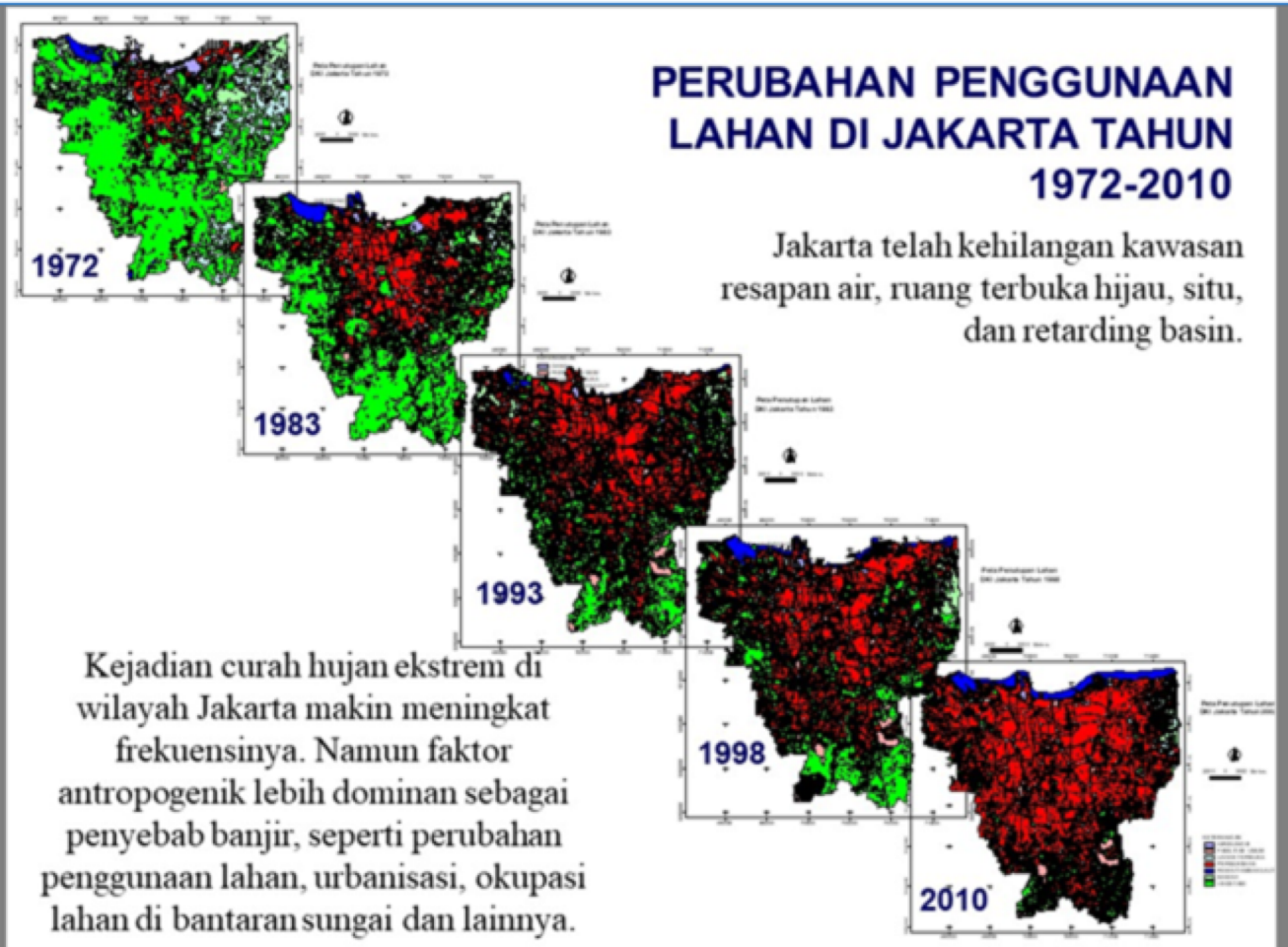
Cisco WebEx Training Center

File Edit Share View Audio Participant Session Breakout Help

Quick Start | Session Info | 12. Kebijakan ...

Participants | Chat | Recorder

09



PERUBAHAN PENGGUNAAN LAHAN DI JAKARTA TAHUN 1972-2010

Jakarta telah kehilangan kawasan resapan air, ruang terbuka hijau, situ, dan retarding basin.

Kejadian curah hujan ekstrem di wilayah Jakarta makin meningkat frekuensinya. Namun faktor antropogenik lebih dominan sebagai penyebab banjir, seperti perubahan penggunaan lahan, urbanisasi, okupasi lahan di bantaran sungai dan lainnya.

Participants

Speaking: **Hatma S (Host), Vena Meyrinda**

Panelist: 1

Hatma S (Host, me)

Attendees: 38

Adita Dwipuspa

Aditya Febiansah

'Afifah Makarim

Agnes Lintang Sekarl...

Agung Prastyo Aji

Amalia Lailatul Zannah

Chat

Full Screen | 67% | View

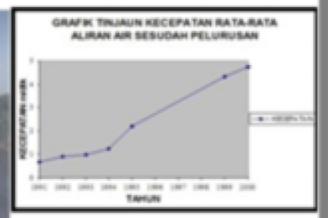
Session No. 712 057 660 | An Integrated Voice Conference is now in progress.

Speak now | Connected

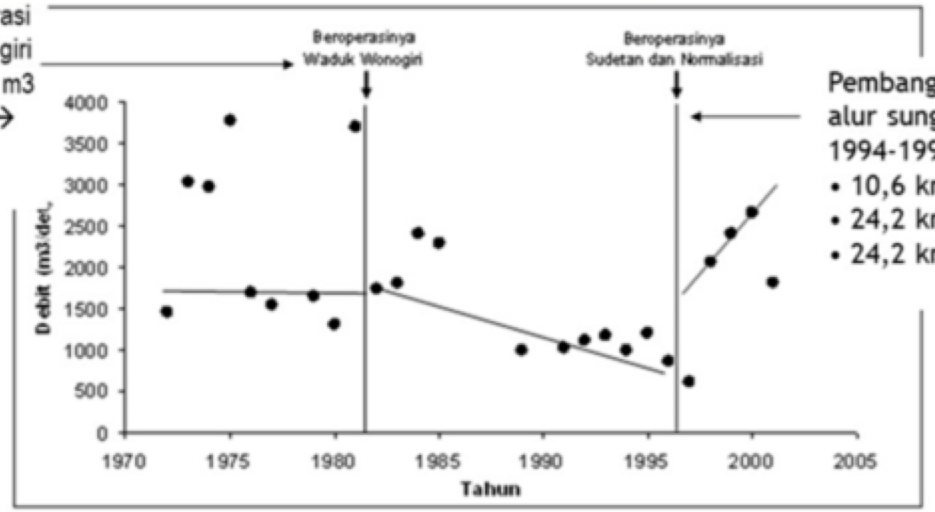
ENG 11:06 27/05/2018

Cisco WebEx Training Center
File Edit Share View Audio Participant Session Breakout Help
Quick Start Session Info 12. Kebijakan ...
Participants Chat Recorder

PENGARUH CC DAN ANTROPOGENIK TERHADAP PERUBAHAN TREND DEBIT SUNGAI DI BENGAWAN SOLO



1981 beroperasi Waduk Wonogiri Kap. 730 juta m3 4.000 m3/dt → 4.00 m3/dt

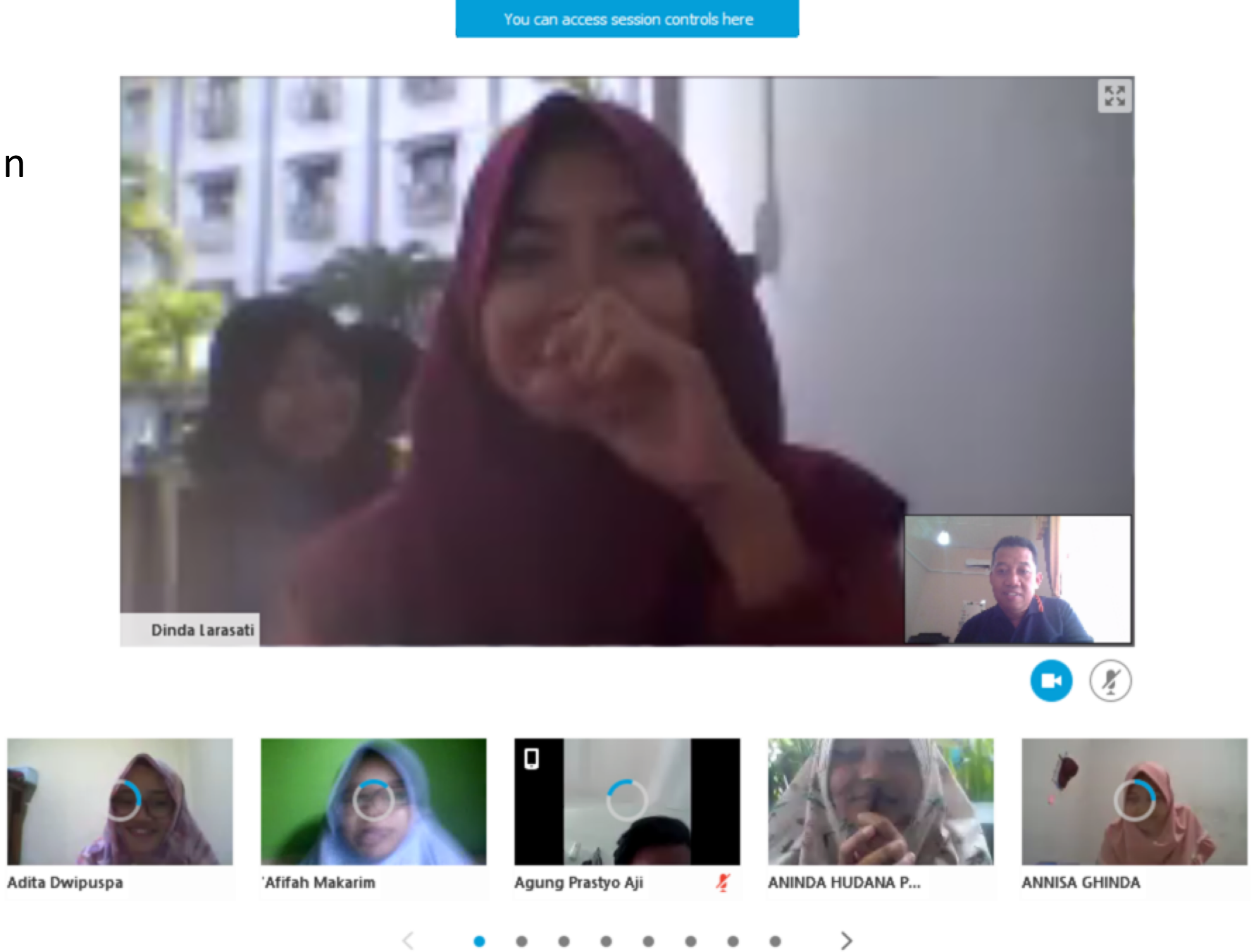


Pembangunan alur sungai 1994-1996:
- 10,6 km pelurusan
- 24,2 km normalisasi
- 24,2 km tanggul

Pengaruh antropogenik lebih dominan sebagai penyebab banjir, dibandingkan Dengan pengaruh perubahan iklim di Bengawan Solo (Pawitan et al, 2009)

Full Screen 67% View
Cisco webex Session No. 712 057 660 | An Integrated Voice Conference is now in progress.
Participants
Dinda Larasati
Panelist: 1
Hatma S (Host, me)
Attendees: 37
Adita Dwipuspa
Aditya Febiansah
Chat
Speak now | Connected
ENG 11:12 27/05/2018

Tatap Muka Online
untuk mempertahankan
<u>interaksi aktif</u> antara
dosen dan mahasiswa



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You only have to know one thing:

"You can learn anything"

(Khan Academy)

Mengakar Kuat
Menjulang
Tinggi

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