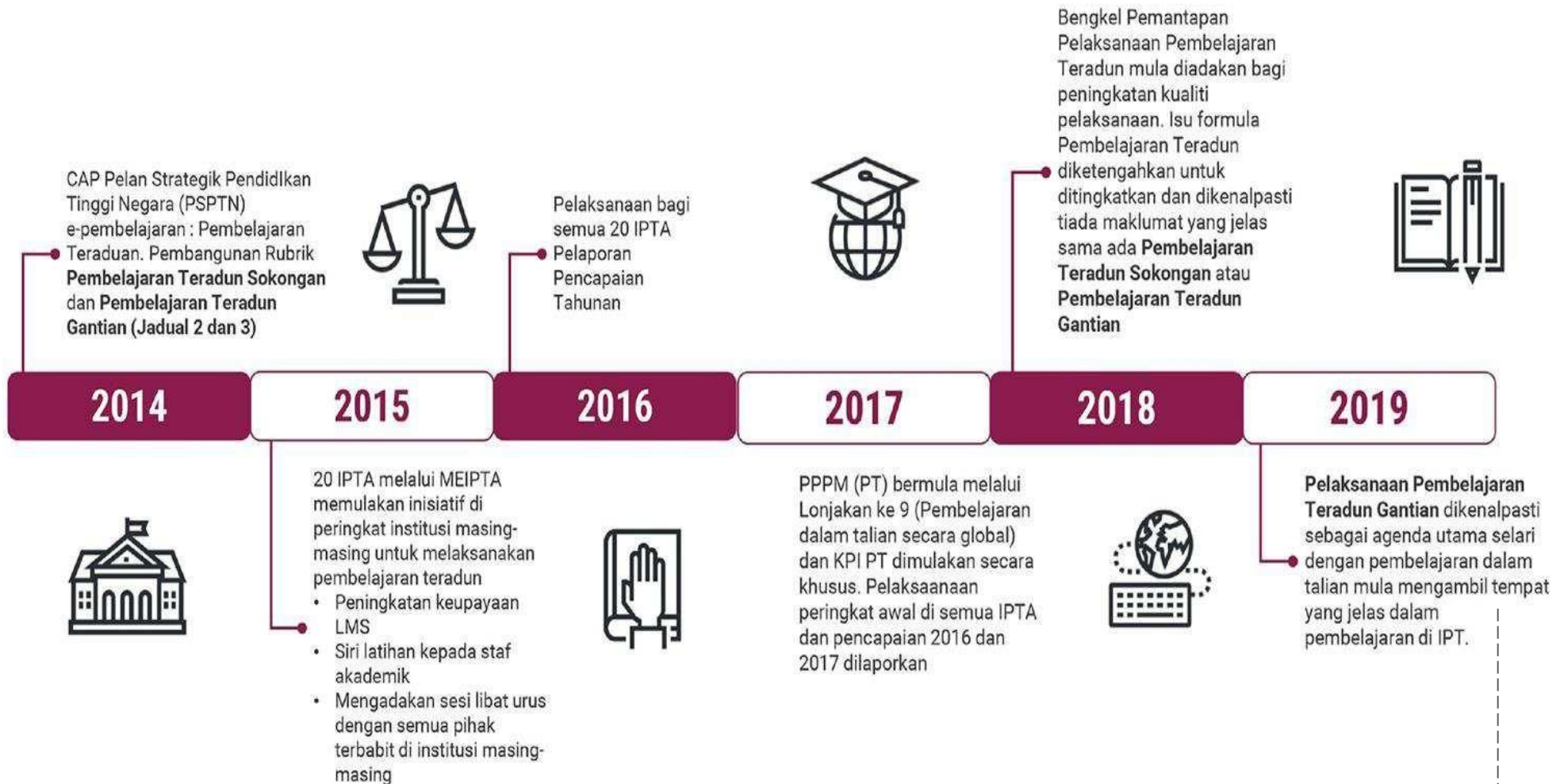


PELAKSANAAN PEMBELAJARAN TERADUN GANTIAN (PTG)

PUSAT PENGURUSAN KECEMERLANGAN DAN INOVASI AKADEMIK (CoMAE-i)



PELAKSANAAN PEMBELAJARAN TERADUN SEMASA BAGI IPTA - KRONOLOGI



4 BLENDED LEARNING (SUBSTITUTE vs SUPPORTIVE)

OPERATIONAL DEFINITION: Substitute Blended Learning – SBL (PTG)

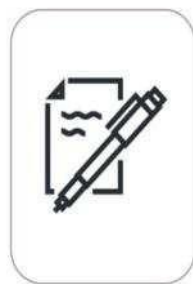
SBL is an approach that combines **online learning** and **face-to-face** modes in the range of **30-80%** of the **Student Learning Time (SLT)** based on the formula **40:40:20** with the combination of three main elements which are:



Learning Material



Learning Activity



Learning Assessment



Source

Buku Garis Panduan Pelaksanaan Pembelajaran Teradun Gantian (Pembelajaran Dalam Talian)
<https://tinyurl.com/SubstituteBlendedLearning>

Supportive Blended Learning – (Pembelajaran Teradun Sokongan - PTS)

Supportive Blended Learning (PTS) is an approach that combines **online learning** and **face-to-face** modes in the range of **30-80%** of the ~~Student Learning Time~~ based on formula **1-7-3-2**

- 1 Course info
- 7 Learning material
- 3 Learning Activity
- 2 Learning Assessment

4 BLENDED LEARNING (SUBSTITUTE vs SUPPORTIVE)

OPERATIONAL DEFINITION: Substitute Blended Learning – SBL (PTG)

SBL is an approach that combines **online learning** and **face-to-face** modes in the range of **30-80%** of the **Student Learning Time (SLT)** based on the formula **40:40:20** with the combination of the main elements which are:



Supportive Blended Learning (Pembelajaran Teradun Gantian / PTS) is an approach that combines **online learning** and **face-to-face** modes in the range of **30-80%** of the **Student Learning Time** based on formula **1-7-3-2**

- 1 Course info
- 7 Learning material
- 3 Learning Activity
- 2 Learning Assessment

Source

Buku Garis Panduan Pelaksanaan Pembelajaran Teradun Gantian (Pembelajaran Dalam Talian)
<https://tinyurl.com/SubstituteBlendedLearning>

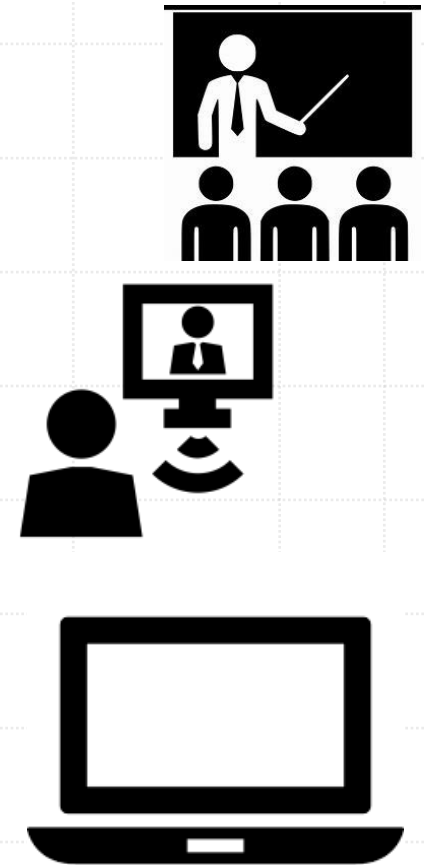
PTS vs PTG

SOKONGAN / SUPPORTIVE

Physical in-person- real time
Virtual (teleconferencing)- real time
Replace (in-person/virtual) – real time, outside original schedule

GANTIAN / SUBSTITUTE

Real time face-to-face (physical in-person / virtual via teleconferencing)
Self-paced, anytime, anywhere



PEMBELAJARAN TERADUN (BLENDED LEARNING (BL)) DALAM SURAT MAKLUMAN MQA BIL. 3/2018

TAKRIFAN KAEDAH PENGAJIAN DAN KAEDAH PENYAMPAIAN PROGRAM PENDIDIKAN TINGGI

Kaedah Penyampaian Program	Takrifan
Konvensional	Pembelajaran dan pengajaran secara bersemuka sepenuhnya dalam bentuk kuliah/ tutorial/ amali (termasuk pembelajaran di industri) yang dikendalikan mengikut tempoh pengajian atau dengan gabungan pembelajaran dalam talian (blended learning) antara 30% hingga 60%.*
Pengajian Terbuka dan Jarak Jauh (Open and Distance Learning, ODL)	Pembelajaran dan pengajaran yang dikendalikan dengan komponen kursus yang dilaksanakan secara atas talian melebihi 60%.*

*Peratusan daripada % SLT Kursus PTG dalam program

% BL dalam satu program, adalah tertakluk kepada % SLT Kursus PTG dalam satu program.

BL= Program
PTG = Kursus

Formula Pembelajaran Teradun (*Blended Learning, BL*) dalam program (30%-60%)

BL
DALAM PROGRAM
(30%-60%)

=

JUMLAH % PTG KURSUS

BILANGAN KURSUS PTG

SIMULASI FORMULA BL:

Program: SM Pelancongan Islam dengan Kepujian (SMPI)

Jumlah kursus (tidak termasuk MPU): 29

BIL	KOD KURSUS	JULAT % PTG (30%-80%)
1	CDA11003	30%
2	CDA11203	50%
3	CDA22003	40%
4	CDA31503	30%
5	CDA31603	60%
JUMLAH		210%

=

210%

5 Kursus

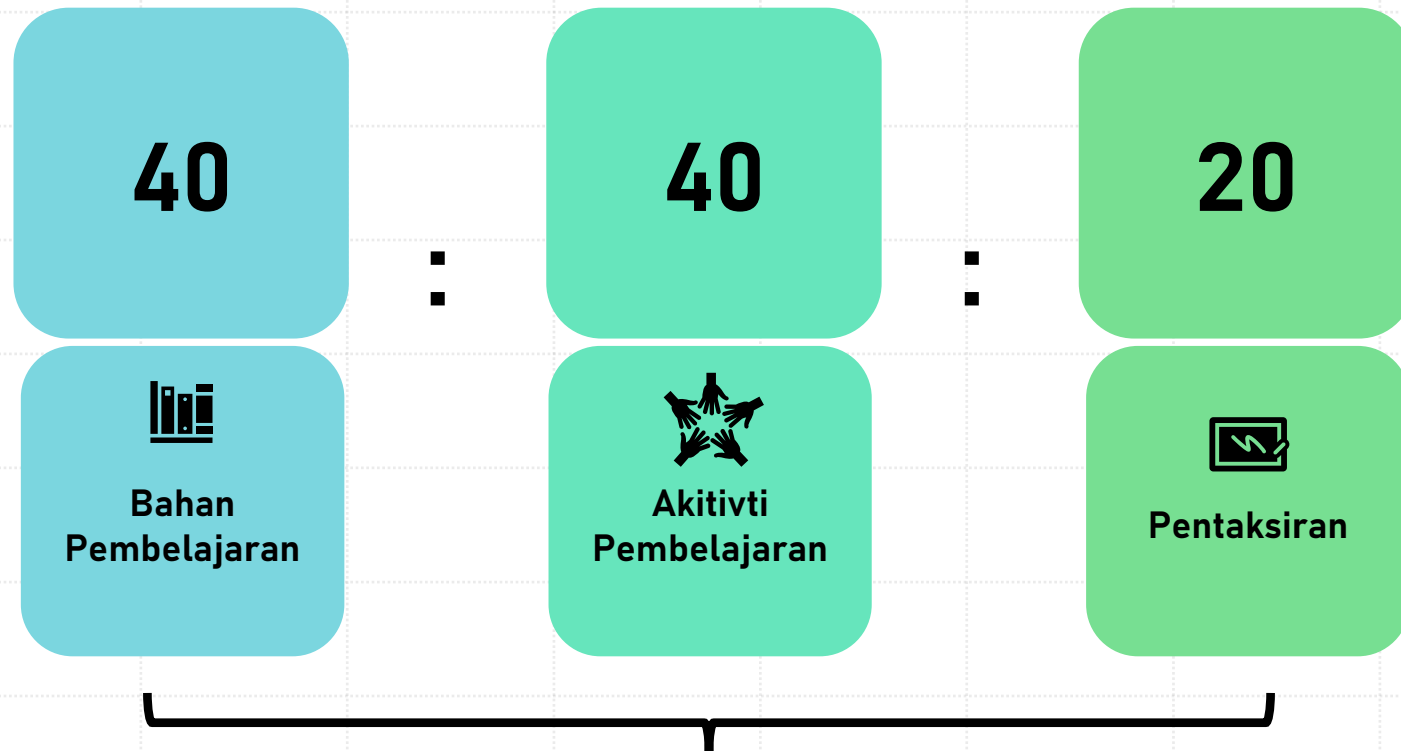
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42%

% BL bagi Program SMPI adalah 42%
(masih dalam julat 30%-60%)

DEFINISI OPERASI PEMBALAJARAN TERADUAN GANTIAN (PTG)

- PTG ialah untuk **mengupayakan pembelajaran dalam talian secara berstruktur dalam julat 30-80%** daripada Jam Pembelajaran Pelajar (Student Learning Time, SLT) berdasarkan FORMULA :



Ketiga-tiga elemen ini mempunyai hubungan terus dengan **Hasil Pembelajaran Kursus** yang berkaitan dan dinyatakan secara jelas dalam rancangan pengajaran.

PEMBELAJARAN TERADUN GANTIAN (PTG): PERINCIAN



40%
Bahan
Pembelajaran

Penggunaan bahan pembelajaran

- *Rakaman video & audio & skrin*
- *Persembahan berbentuk penceritaan*
- *Animasi dan Perisian Web 2.0*
- *Simulasi atau Realiti Maya, atau Realiti Luasan, atau Realiti Tergabung*
- *Syarah dalam/luar kelas*
- *Kandungan interaktif*
- *Video praktikal/makmal*
- *Dan lain-lain yang bersesuaian*



40%
Aktiviti
Pembelajaran

Pelaksanaan aktiviti dalam talian menggunakan web 2.0 tool

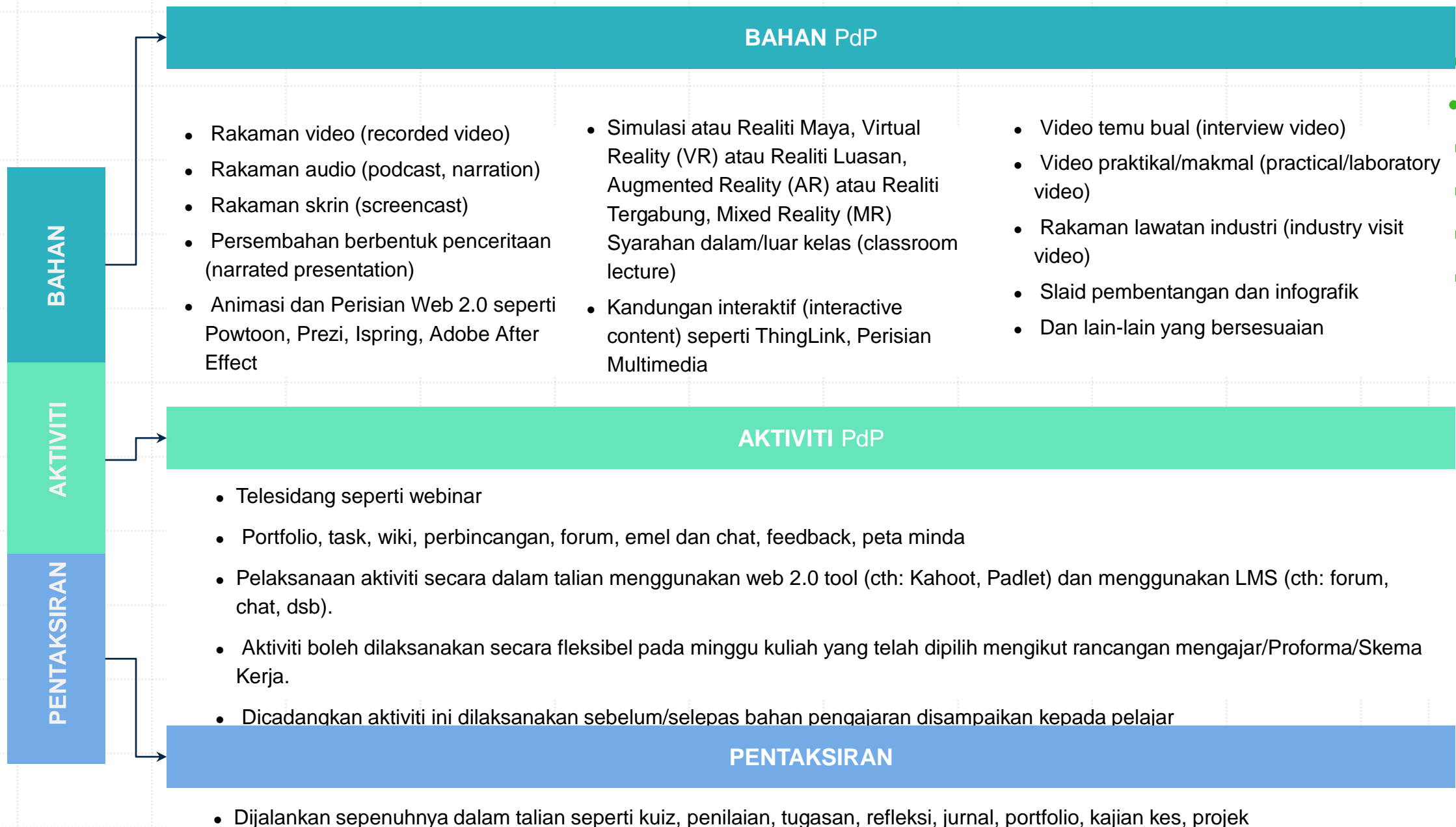
- *Kahoot*
- *Padlet*
- *LMS (cth: forum, chatting, dsb)*
- *Dan lain-lain yang bersesuaian*



20%
Pentaksiran

Pentaksiran dalam talian

- *Kuiz*
- *Penilaian*
- *Tugasan*
- *Refleksi*
- *Dan lain-lain yang bersesuaian*



Rujuk **GARIS PANDUAN KELAS GANTIAN DALAM TALIAN**

FORMULA PTG

PTG

=

30%-80%

X

**JUMLAH JAM
PEMBELAJARAN
PELAJAR
(SLT)/KURSUS**

SIMULASI FORMULA PTG:

Kursus 3 jam kredit (120 SLT) dengan PTG 30%

30%

X

120 SLT

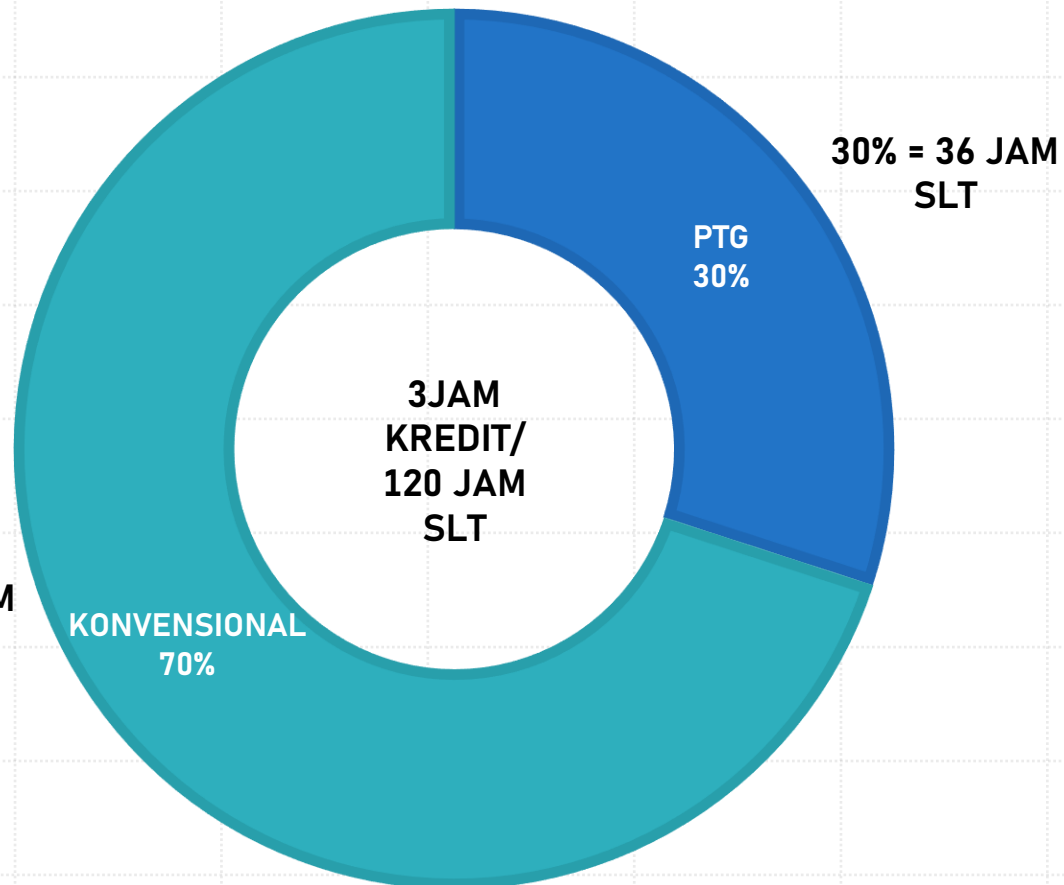
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**36 JAM
PTG**

Simulasi 1*:

Kursus 3 jam kredit (120 SLT) dengan PTG 30%

■ PTG ■ KONVENSIONAL



30%

- Bahan Pembelajaran
- Aktiviti Pembelajaran
- Pentaksiran

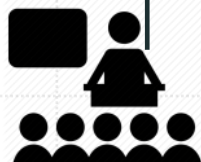
70%

- Syarahan
- Tutorial
- Makmal
- Belajar secara individual
- Pentaksiran

SBL based on Student Learning Time (SLT)



SLT for 3 credit hours
120 hours



Conventional TnL : 70% x 120 hours =
84 hours



FORMULA
40 : 40 : 20

SUBSTITUTE BL : 30% x 120 hours =
36 hours

NEW



Lecture



Tutorial



Laboratory



Self
Learning



Assessment

Guided/non guided



Material
40%



Activity
40%



Assessment
20%

36 JAM
PTG

ELEMEN
% PTG

JUMLAH
JAM PTG

X



40%
Bahan

=

14.4
Jam

X



40%
Aktiviti

=

14.4
Jam






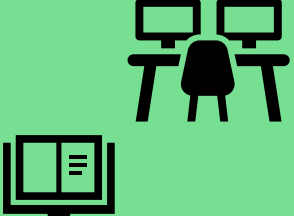
X



20%
Pentaksiran

=

7.2
Jam

ELEMEN % PTG	JUMLAH JAM PTG	MINGGU/TOPIK PTG	PERINCIAN ELEMEN DAN JAM PTG
 40% Bahan	14.4 Jam	3,4,5,6	<ul style="list-style-type: none"> • Video = 6 Jam • Interaktif = 4.2 Jam • Podcast = 4.2 Jam 
 40% Aktiviti	14.4 Jam	3,4,5,6	<ul style="list-style-type: none"> • Forum (KeLiP) = 4 Jam • Pembelajaran Kolaboratif = 5.2 Jam • Aktiviti Kumpulan = 5.2 Jam 
 20% Pentaksiran	7.2 Jam	5,6,7,8	<ul style="list-style-type: none"> • Tugas = 7.2 Jam 

PENERAPAN PTG PADA RANCANGAN PENGAJARAN

Syllabus		Student Learning Time (Conventional)					Student Learning Time (Online Learning)				
Week	Chapter	Lecture	Tutorial	Lab	Self-Learning		Assessment	TnL Material	TnL Activities	Assessment	
					Guided	Non-Guided					
1	Introduction to Problem Solving				2	2					
2	Introduction to Programming	2		2	2	1					
3	Identifier, Variable Assignment					1		4	2	8	
4	Input & Output Statements					1		2	2		
5	Operator & Expression					2		3	2		
6	Control Statements Test 1	2			2	3	2				
7	Control Statements	2		2	2	1					
8	Arrays					1		3	4		
9	Arrays Mini Project					2	6	2	4		
10	Modular Programming	2		2	2	1					
11	Modular Programming	2		2	2	1					
12	Pointer	2		2	2	1					
13	File Processing Test 2	2			2	3	2				
14	Mini Project Presentation					1	1				
15	Final Exam					9	3				
Total		14	0	10	16	30	14	14	14	8	
		SLT for Conventional Learning					84	SLT for Online Learning		36	
		Overall SLT					120				

SIMULASI 2: PTG UNTUK 2 JAM KREDIT (80 SLT)

2 JAM KREDIT (80 SLT)				
Elements on Online Learning	Weightage	SBL 30%	SBL 40%	SBL 50%
		Total SLT	Total SLT	Total SLT
Material	40%	9.6	12.8	16
Activity	40%	9.6	12.8	16
Assessment	20%	4.8	6.4	8
Total hours for SBL		24 (4 weeks)	32 (5-6 weeks)	40 (7 weeks)
Total hours for Conventional		56 (10 weeks)	48 (8-9 weeks)	40 (7 weeks)

SIMULASI 3: PTG UNTUK 3 JAM KREDIT (120 SLT)

3 JAM KREDIT (120 SLT)				
Elements on Online Learning	Weightage	SBL 30%*	SBL 40%	SBL 50%
		Total SLT	Total SLT	Total SLT
Material	40%	14.4	19.2	24
Activity	40%	14.4	19.2	24
Assessment	20%	7.2	9.6	12
Total hours for SBL		36 (4 weeks)	48 (5-6 weeks)	60 (7 weeks)
Total hours for Conventional		84 (10 weeks)	72 (8-9 weeks)	60 (7 weeks)

SIMULASI 4: PTG UNTUK 4 JAM KREDIT (160 SLT)

4 JAM KREDIT (160 SLT)				
Elements on Online Learning	Weightage	SBL 30%	SBL 40%	SBL 50%
		Total SLT	Total SLT	Total SLT
Material	40%	19.2	25.6	32
Activity	40%	19.2	25.6	32
Assessment	20%	9.6	12.8	16
Total hours for SBL		48 (4 weeks)	64 (5-6 weeks)	80 (7 weeks)
Total hours for Conventional		112 (10 weeks)	96 (8-9 weeks)	80 (7 weeks)



GARIS MASA PEMURNIAAN DCI PTG

(Dr. Norlia Muhamad)

GARIS MASA PEMURNIAAN DCI PTG





SIMULASI PELAKSANAAN PTG DALAM DCI PROGRAM AKADEMIK

UniSZA

(Dr. Wan Anwar Fahmi Wan Mohamad)