UNIVERSITI MALAYSIA PERLIS

Student Learning Time (SLT) Calculator Version 1.3 (24/09/2021)

Faculty / PTJ :	Faculty of Mechanical Engineering & Technology
Course Code :	MMJ10403
Course Name :	Thermodynamics I
Sem / Academic Session :	sem 2 / 2022/23
Course Coordinator :	Ts. Dr. Tan Wee Choon

Notes:

CT/GL	Contact Time/Guided Learning Time	Prac	Practical Component
IL	Independent Learning Time	Theo	Theoretical Component
SLT	Student Learning Time	Conv	Conventional Component
Hour	Duration of Activity in Hour	Sync	Online Learning (Synchronous)
Min	Duration of Activity in minute	Async	Online Learning (Asynchronous)
No.	Number of Activity	BLS	Blended Learning Substitute
Pages.	Number of Pages Produced for Specific Activity		

Notional Hours 40

CLEAR | HIDE | UNHIDE

Components

CONVENTIONAL/ONLINE	DELIVERY/ASSESSMENT	COMPONENT	GENERAL MULTIPLIER	GENERAL MULTIPLIER (RANGE) Min	GENERAL MULTIPLIER (RANGE) Max	UNIT	CONVENTIONAL / SYNC / ASYNC	MATERIAL (M) /ACTIVITY (AC) /ASSESSMENT (AS) / CONVENTIONAL (N/A)	PRACTICAL / THEORETICAL	Total in 1 Semester x	IL	SLT
Conventional	Delivery	Lecture	1	1	2	Hour	Conv	N/A	Theo	33	33	66
Conventional	Delivery	Tutorial	1	1	2	Hour	Conv	N/A	Theo	0	0	0
Conventional	Delivery	Laboratory	0.667	0.667	1	Hour	Conv	N/A	Prac	2	1.333	3.333
Conventional	Delivery	Workshop	0.667	0.667	1	Hour	Conv	N/A	Prac	0	0	0
Conventional	Delivery	Clinic	0	0	0	No.	Conv	N/A	Theo	3	0	0
Conventional	Assessment	Assignment	3	3	-	No.	Conv	N/A	Theo	3	9	9
Conventional	Assessment	Assignment Pg	1	1	1.2	Pages	Conv	N/A	Theo	0	0	0
Conventional	Assessment	Laboratory report	3	3	-	No.	Conv	N/A	Theo	1	3	3
Conventional	Assessment	PBL/ Project	8	8	10	No.	Conv	N/A	Theo	0	0	0
Conventional	Assessment	Case Study	3	3	-	No.	Conv	N/A	Theo	0	0	0
Conventional	Assessment	Presentation	3	3	4	Min	Conv	N/A	Theo	0	0	0
Conventional	Assessment	Quiz	0	0	0	No.	Conv	N/A	Theo	3	0	0
Conventional	Assessment	Test	3	3	7	Min	Conv	N/A	Theo	90	4.5	6
Conventional	Assessment	Lab Test	3	3	7	Hour	Conv	N/A	Prac	0	0	0
Conventional	Assessment	Final Exam	5	3	7	Hour	Conv	N/A	Theo	3	15	18
Online Learning	Delivery	Lecture (Sync)	1	1	2	Hour	Sync	M	Theo	0	0	0
Online Learning	Delivery	Lecture (Async)	4	4	6.5	Min	Async	M	Theo	192	12.8	16
Online Learning	Delivery	Tutorial (Sync)	1	1	2	Hour	Sync	AC	Theo	0	0	0
Online Learning	Delivery	Tutorial (Async)	4	4	6.5	Min	Async	AC	Theo	0	0	0
Online Learning	Delivery	Laboratory (Sync)	0.667	0.667	1	Hour	Sync	M	Prac	0	0	0
Online Learning	Delivery	Discussion (Sync)	1	1	3	Hour	Sync	AC	Theo	0	0	0
Online Learning	Delivery	PBL (Sync)	1	1	2	Hour	Sync	AC	Theo	0	0	0
Online Learning	Delivery	Quiz (Formative)	0	0	0	Min	Sync	AC	Theo	0	0	0
Online Learning	Delivery	Clinic (Async)	0	0	0	No.	Async	AC	Theo	9	0	0
Online Learning	Assessment	Quiz (Summative)	3	3	4	Min	Sync	AS	Theo	0	0	0
Online Learning	Assessment	Multiple Choice Question	3	3	3	Hour	Sync	AS	Theo	0	0	0
Online Learning	Assessment	Media Based Activity	3	3	6	Min	Async	AS	Theo	0	0	0
Online Learning	Assessment	Oral Examination	3	3	3	Hour	Sync	AS	Theo	0	0	0
Online Learning	Assessment	Presentation	6	6	8	Min	Sync	AS	Theo	0	0	0
Online Learning	Assessment	Test	3	3	4	Hour	Sync	AS	Theo	0	0	0
Online Learning	Assessment	Open Book Exam	3	3	7	Hour	Async	AS	Theo	0	0	0

Weekly input (x) – Conventional

WEEK	TOPIC	Lecture	Tutorial	Laboratory	Workshop	Clinic	Assignment	Assignment Pg	Laboratory report	PBL/ Project	Case Study	Presentation	Quiz	Test	Lab Test	Final Exam
1	Basic Concepts of Thermodynamics	3														
2	Properties of Pure Substance	3														
3	Properties of Pure Substance	3				1							1			
4	Energy Transfer															
5	MID SEMESTER BREAK															
6	Energy Transfer						1							45		
7	First Law of Thermodynamics	3														
8	First Law of Thermodynamics	3														
9	First Law of Thermodynamics	3		2												
10	First Law of Thermodynamics	3							1							
11	Second Law of Thermodynamics	2				1	1						1			
12	Second Law of Thermodynamics	3												45		
13	Second Law of Thermodynamics	3														
14	Entrophy	1											1			
15	Entrophy	3				1	1									
16	STUDY WEEK															
17	EXAMINATION WEEK															3
18	EXAMINATION WEEK															
19	EXAMINATION WEEK															
Total in 1 Semester		33	0	2	0	3	3	0	1	0	0	0	3	90	0	3

Weekly input (x) – Online Learning

WEEK	Lecture (Sync)	Lecture (Async)	Tutorial (Sync)	Tutorial (Async)	Laboratory (Sync)	Discussion (Sync)	PBL (Sync)	Quiz (Formative)	Clinic (Async)	Quiz (Summative)	Multiple Choice Question	Media Based Activity	Oral Examination	Presentation	Test	Open Book Exam
1																
2									1							
3																
4		72														
5																
6		72							1							
7									1							
8									1							
9									1							
10									1							
11																
12									1							
13									1							
14		48							1							
15																
16																
17																
18																
19																
Total	0	192	0	0	0	0	0	0	9	0	0	0	0	0	0	0

Summary

WEEK	Prac. SLT	Theo. SLT	Conventional SLT	Synchronous SLT	Asynchronous SLT	BLS Material SLT	BLS Activity SLT	BLS Assessment SLT	Conventional Delivery CT/GL	IL	SLT	Conventional Assessment CT/GL	IL	SLT	Online Learning Delivery CT/GL	IL	SLT	Online Learning Assessment CT/GL	IL	SLT	Overall CT/GL	IL	SLT
1	0	6	6	0	0	0	0	0	3	3	6	0	0	0	0	0	0	0	0	0	3	3	6
2	0	6	6	0	0	0	0	0	3	3	6	0	0	0	0	0	0	0	0	0	3	3	6
3	0	6	6	0	0	0	0	0	3	3	6	0	0	0	0	0	0	0	0	0	3	3	6
4	0	6	0	0	6	6	0	0	0	0	0	0	0	0	1.2	4.8	6	0	0	0	1.2	4.8	6
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	12	6	0	6	6	0	0	0	0	0	0.75	5.25	6	1.2	4.8	6	0	0	0	1.95	10.05	12
7	0	6	6	0	0	0	0	0	3	3	6	0	0	0	0	0	0	0	0	0	3	3	6
8	0	6	6	0	0	0	0	0	3	3	6	0	0	0	0	0	0	0	0	0	3	3	6
9	3.33	6	9.33	0	0	0	0	0	5	4.33	9.33	0	0	0	0	0	0	0	0	0	5	4.333	9.333
10	0	9	9	0	0	0	0	0	3	3	6	0	3	3	0	0	0	0	0	0	3	6	9
11	0	7	7	0	0	0	0	0	2	2	4	0	3	3	0	0	0	0	0	0	2	5	7
12	0	9	9	0	0	0	0	0	3	3	6	0.75	2.25	3	0	0	0	0	0	0	3.75	5.25	9
13	0	6	6	0	0	0	0	0	3	3	6	0	0	0	0	0	0	0	0	0	3	3	6
14	0	6	2	0	4	4	0	0	1	1	2	0	0	0	0.8	3.2	4	0	0	0	1.8	4.2	6
15	0	9	9	0	0	0	0	0	3	3	6	0	3	3	0	0	0	0	0	0	3	6	9
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	18	18	0	0	0	0	0	0	0	0	3	15	18	0	0	0	0	0	0	3	15	18
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total in 1 Semester	**3.33**	**118**	**105**	**0**	**16**	**16**	**0**	**0**	**35**	**34.3**	**69.3**	**4.5**	**31.5**	**36**	**3.2**	**12.8**	**16**	**0**	**0**	**0**	**42.7**	**78.63**	**121.3**
%	**2.75**	**97.3**	**86.8**	**0**	**13.2**	**100**	**0**	**0**															

CREDIT 3.0333