



# How to re-design and revise Course Information (CI) elements: CLO, TLA, AT & SLT

- with Constructive Alignment?
- Target audience: Course owners and course coordinators from the School of Computing, UTM.
- Sharing outcome: Guidelines on how to plan, re-design, and revise the existing CIs, especially after the CAR CQI presentation.





# Thank you....





### **Credits to Experts**

AP Dr. Rohaya (UTM SoE, FSSH)

AP Dr. Yudariah (UTM CEE)

AP Dr. Naziha (UTM SoEE, FE)



Go to www.menti.com and use the code 5241 6378

### Currently, I am a .... (for next semester 2, 2021/2022)

| Course Owner       |
|--------------------|
| Course Coordinator |
| Course Lecturer    |
| Others             |

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Go to www.menti.com and use the code 5241 6378

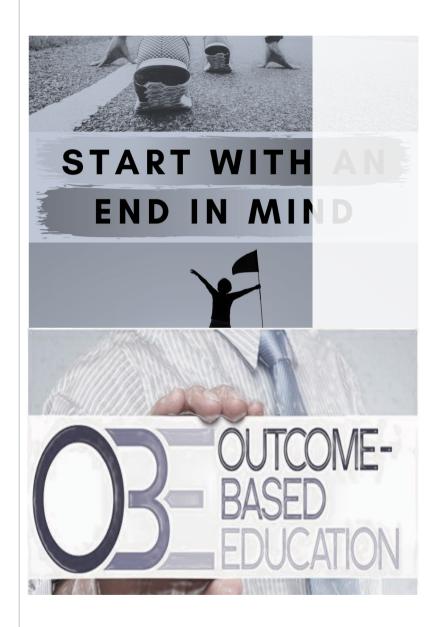
### What would you like to learn specifically in today session?

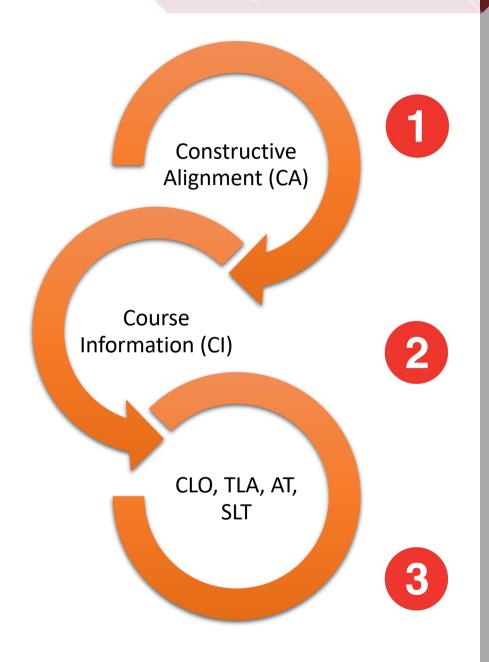


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### Agenda:



Recap on
Constructive
Alignment
(CA)



Recap on
Course
Information
(CI) document



2 TLA

3 AT

4 SLT

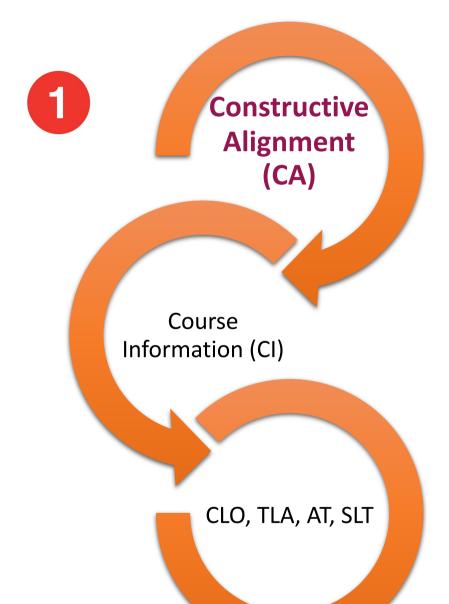


Steps to revise, redesign for CI improvement



Hands-on?

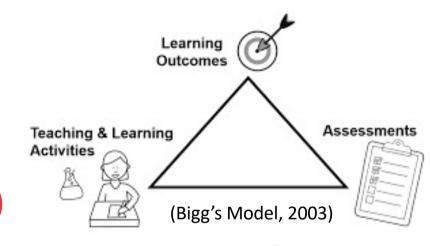






What do we want the learners to know?

[Recall] Constructive Alignment (CA)

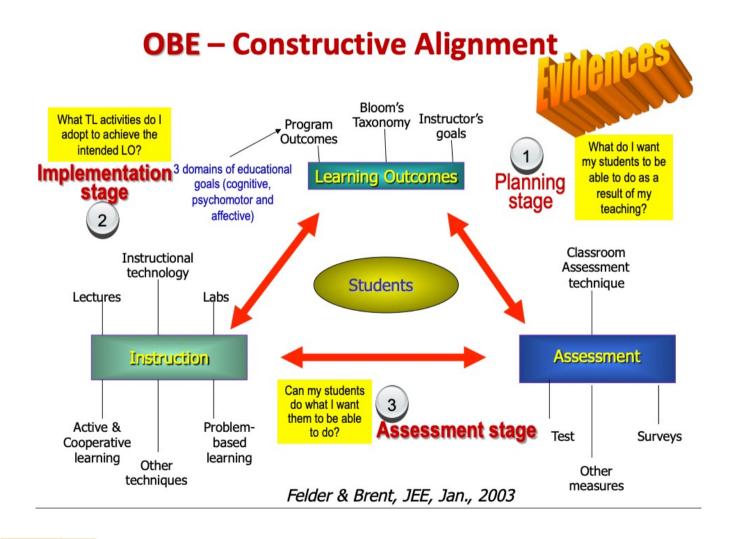


How will the learners learn? 3

How will we know the learners have learnt?



### [Recall] Constructive Alignment (CA)







**Course** Information (CI)

> CLO, TLA, AT, SLT



**BASELINE COMPETENCIES FOR DIFFERENTIATED CAREER PATHWAY** (BC4DCP) - GROUP 2



#### **MODULE 2A: COURSE INFORMATION**

Assoc. Prof. Dr. Naziha Ahmad Azli **Curriculum Innovation and Development Unit (CIDU)** 

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https://utmcdex.utm.my/download/course\_materials/bc4dcp\_2021/modul\_2a\_pm\_ dr naziha/BC4DCP-OBEAdd-2021.pdf



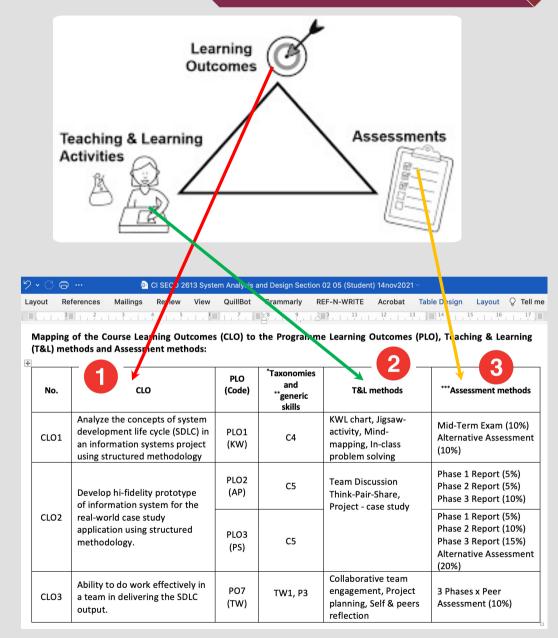


Course Information (CI)

CLO, TLA, AT, SLT



[Recall] How CA applied in Course Information (CI)



| Distribution of student                    |     |                   |                    |     | Teaching and                        | d Learning Activities | TOTAL SLT |
|--|-----|-------------------|--------------------|-----|-------------------------------------|-----------------------|-----------|
| Learning Time (SLT) Course content outline |     | Guided<br>(Face t | Learnin<br>o Face) | _   | Guided Learning<br>Non-Face to Face |                       |           |
| CLO  | L   | Т                 | Р                  | 0   |                                     |                       |           |
| CLO1                                       | 17h |                   |                    | 2h* | 17h                                 | 10h                   | 46h       |
| CLO2                                       | 21h |                   |                    |     | 19h                                 | 20h                   | 60h       |
| CLO3                                       | 4h  |                   |                    |     | 3h                                  | 11h                   |           |
| Total SLT                                  | 42h |                   |                    | 2h  | 39h                                 | 34h                   | 117       |

L: Lecture, T: Tutorial, P: Practical, O: Others (\*Test)

| Cor      | ntinuous Assessment         | PLO              | Percentage       | Total SLT                 |
|----------|-----------------------------|------------------|------------------|---------------------------|
| 1        | 1 Team Project              |                  | 18               | As in CLO2, CLO3          |
|          |                             | PS               | 32               |                           |
|          |                             | TW               | 10               |                           |
|          |                             |                  |                  |                           |
| Fin      | al Assessment               | PLO              | Percentage       | Total SLT                 |
| Fin<br>1 | al Assessment Mid-Term Exam | <b>PLO</b><br>KW | Percentage<br>15 | Total SLT As in CLO1 (2h) |
|          |                             |                  |                  |                           |



# SECD 2613 Scenario

[Redesign & Revision Sample – CLO, TLA, AT, SLT]



### 2019/2020 -01

#### **Before COVID-19**

| No.  | CLO  | PLO (Code)                         | Taxonomies And generic skills | T&L methods   | Assessment methods       |
|------|--|------------------------------------|-------------------------------|---|--------------------------|
| CLO1 | Apply the concepts of system development life cycle in an information systems project.   | PLO1 (KW)                          | C3                            | Lecture, Active learning                                  | A (5%) T (10%) F (10%)   |
| CLO2 | Design phase based on requirement in real-world case study using structured methodology. | PLO2 (AP)<br>PLO3 (PS)<br>PO7 (TW) | P3<br>C5<br>TW1               | Lecture, Active<br>learning,<br>Project-based<br>learning | T (10%) F (25%) PR (29%) |
| CLO3 | Demonstrate the prototype design of an information system project.                       | PO7 (TW)                           | TW1                           | Project-based<br>learning                                 | PR (11%)                 |



### 2019/2020 -01

#### **Before COVID-19**

| No.  | CLO  | PLO<br>(Code)                      | Taxonomies<br>& generic<br>skills | T&L<br>methods                                   | Assessment methods       |              |
|------|--|------------------------------------|-----------------------------------|--|--------------------------|--------------|
| CLO1 | Apply the concepts of system development life cycle in an information systems project.   | PLO1<br>(KW)                       | <b>C3</b>                         | Lecture,<br>Active learning                      | A (5%) T (10%) F (10%)   | 25%          |
| CLO2 | Design phase based on requirement in real-world case study using structured methodology. | PLO2 (AP)<br>PLO3 (PS)<br>PO7 (TW) | P3<br><b>C5</b><br>TW1            | Lecture, Active learning, Project-based learning | T (10%) F (25%) PR (29%) | <b>}</b> 64% |
| CLO3 | <b>Demonstrate</b> the <b>prototype</b> design of an information system project.         | PO7 (TW)                           | TW1                               | Project-based<br>learning                        | PR (11%)                 | } 11%        |

\* CLO3 – no generic skills mentioned to be assessed



### 2020/2021 -01

#### **Year-1 COVID-19**

| No.  | CLO   | PLO<br>(Code) | Taxonomie<br>s & generic<br>skills | T&L methods   | Assessment methods   |
|------|---|---------------|------------------------------------|---|--|
| CLO1 | Analyze the concepts of system development life cycle (SDLC) in an information systems project using structured methodology | PLO1<br>(KW)  | C4                                 | Know-Want-Learn<br>(KWL) chart, Jigsaw-<br>activity, Mind-mapping                           | Mid Term Exam: 15%<br>Final Exam: 25%  |
|      | <b>Develop</b> hi-fidelity prototype of   | PLO2<br>(AP)  | C5                                 | Group Discussion (GD)   | Project 1 report: 5% Project 2 report: 6% Project 3 report: 7%                         |
| CLO2 | information system for the real-<br>world case study application<br>using structured methodology.                           | PLO3<br>(PS)  | <b>C</b> 5                         | Think-Pair-Share (TPS), Project - case study  | Project report: 5% Project 2 report: 5% Project 3 report: 10% Project 4 prototype: 12% |
| CLO3 | Ability to do work effectively in a team in delivering the SDLC output.   | PO7<br>(TW)   | TW1, P3                            | Collaborative GD using Trello app, Self & Peers reflection using Teammates app/ Google Form | 4 Projects x Peer assessment: 10%  |



## 2020/2021 -02

#### **Year-1 COVID-19**

| No.  | CLO   | PLO (Code)  | *Taxonomies<br>and<br>**generic skills | T&L methods   | ***Assessment methods  |  |  |
|------|---|---|--|---|--|--|--|
| CLO1 | Analyze the concepts of system development life cycle (SDLC) in an information systems project using structured methodology | PLO1 (KW)   | C4                                     | Know-Want-Learn<br>(KWL) chart, Jigsaw-<br>activity, Mind-<br>mapping                       | Mid Term Exam: 15%<br>Final Exam: 25%  | } 40%  |  |
|      | Develop hi-fidelity prototype   | Develop hi-fidelity prototype of information system for the |  | C5  | Group Discussion   | Project 1 report: 5%<br>Project 2 report: 6%<br>Project 3 report: 7% |  |
| CLO2 | real-world case study application using structured methodology.   | PLO3<br>(PS)  | C5                                     | (GD) Think-Pair-Share<br>(TPS), Project - case<br>study                                     | Project report: 5% Project 2 report: 5% Project 3 report: 10% Project 4 prototype: 12% | <b>5</b> 50%   |  |
| CLO3 | Ability to do work effectively in a team in delivering the SDLC output.   | PO7<br>(TW)   | TW1, P3                                | Collaborative GD using Trello app, Self & Peers reflection using Teammates app/ Google Form | 4 Projects x Peer assessment: 10%  | } 10%  |  |



#### **Before CI revision – 2019/2020-01**

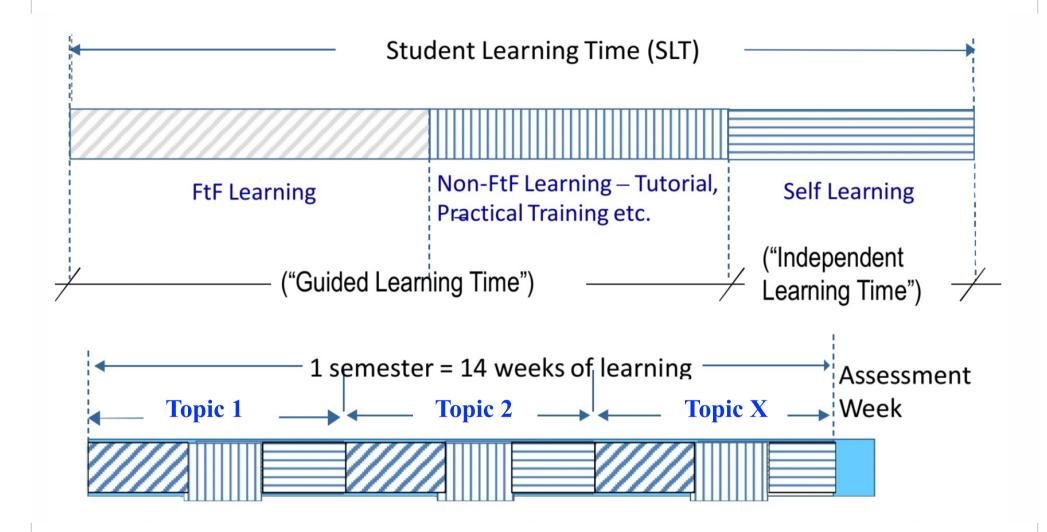
#### Student learning time (SLT) details:

| Distribution of student                          |     |    |                    |   | Teaching and                        | d Learning Activities | TOTAL SLT |
|--|-----|----|--------------------|---|-------------------------------------|-----------------------|-----------|
| Learning<br>Time (SLT) Course<br>content outline | C   |    | Learnin<br>o Face) | _ | Guided Learning<br>Non-Face to Face |                       |           |
| CLO  | L   | Т  | Р                  | 0 |                                     |                       |           |
| CLO1   | 10h |    |                    |   |                                     | 17h                   | 27h       |
| CLO2   | 13h | 4h | 5h                 |   | 7h                                  | 29.5h                 | 58.5h     |
| CLO3   | 3h  |    | 7h                 |   | 3h                                  | 28h                   |           |
| Total SLT  | 26h | 4h | 12h                |   | 10h                                 | 61.5h                 | 113.5h    |

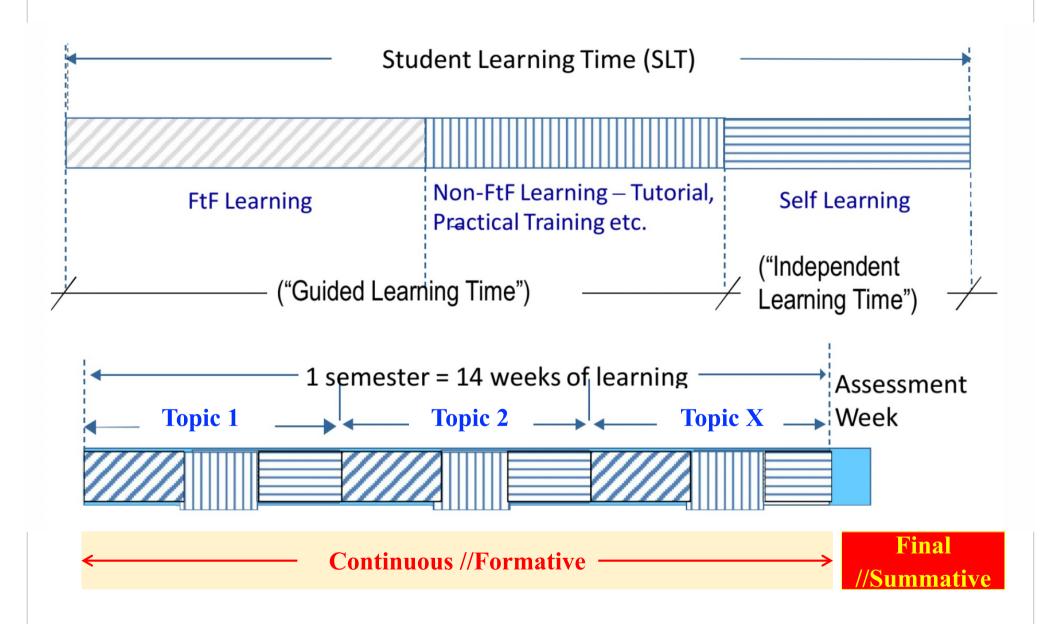
L: Lecture, T: Tutorial, P: Practical, O: Others

| Con  | tinuous Assessment | PLO            | Percentage | Total SLT        |
|------|--------------------|----------------|------------|------------------|
| 1    | Quiz               | KW             | 5          | 1h               |
| 2    | Mid-Term Exam      | KW             | 10         | 2h30m            |
|      |                    | Α              | 10         | 2113UM           |
| 3    | Group Project      | PS             | 20         | Ac in CLO2 CLO4  |
|      |                    | TW             | 20         | As in CLO3, CLO4 |
| Fina | al Assessment      | PLO            | Percentage | Total SLT        |
| 1    | Final Examination  | KW             | 10         | 3h               |
|      |                    | Α              | 20         |                  |
|      |                    | PS             | 5          |                  |
|      |                    | rand Total SLT | 120h       |                  |

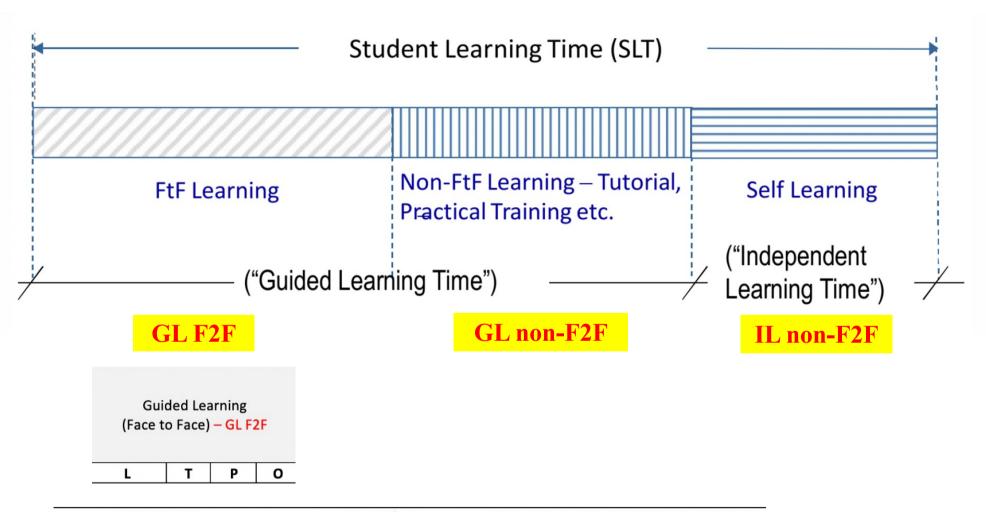












L: Lecture ~F2F lecture, T: Tutorial, P: Practical~amali/lab, O: Others ~formative activities @virtual online class



| Distribution   | Teaching and Learning Activities |    |                  |                     |   | TOTAL SLT   |   |
|--|----------------------------------|----|------------------|---------------------|---|---|---|
| of student<br>Learning<br>Time (SLT) Course<br>content outline | Guid<br>(Face to                 |    | arning<br>– GL F | 2F                  | Guided Learning Non-Face to Face – GL nonF2F *eLearning | Independent Learning<br>Non-Face to face – IL<br>nonF2F |   |
| CLO  | L                                | Т  | Р                | 0                   |   |   |   |
| CLO1 – 40%   | //0.4*42<br>= <b>17h</b>         | 11 | 7 – 42           | = 75h               |   |   | // 0.4 x 120 =<br>48h minus Test<br>2h~ 46h |
| CLO2 - 50%   | //0.5 * 42 = <b>21h</b>          |    |                  | istribut<br>+ IL no | ted in cells GL F2I<br>onF2F                            | F(T, P, O) + GL   | // 0.50 x 120 = <b>60h</b>                  |
| CLO3 – 10%   | //0.1 * 42 = <b>4h</b>           |    |                  | // 0.1 x 120 = 11h  |   |   |   |
| Total SLT  | 42h<br>//3credit<br>x            |    |                  | 117h                |   |   |   |
|  | 14weeks                          |    |                  |                     |   |   |   |

L: Lecture ~F2F lecture, T: Tutorial, P: Practical~amali/lab, O: Others ~formative activities @virtual online class

|                           | Coi  | ntinuous Assessment //Formative  | PLO | Percentage    | Total SLT        |       |
|---------------------------|------|----------------------------------|-----|---------------|------------------|-------|
|                           | 1    | Team Project                     | AP  | 18            | As in CLO2, CLO3 |       |
|                           |      |                                  | PS  | 32            |                  |       |
|                           |      |                                  | TW  | 10            |                  |       |
|                           | Fin  | al <u>Assessment //Summative</u> | PLO | Percentage    | Total SLT        | 117 h |
|                           | 1    | Mid-Term Exam                    | KW  | 15            | As in CLO1 (2h)  |       |
|                           | 2    | Final Examination                | KW  | 25            | 3h               |       |
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| Distribution  |                                  |    | Te                  | aching             | and Learning Activit                                    | ies   | TOTAL SLT                                   |
|---|----------------------------------|----|---------------------|--------------------|---|---|---|
| of student Learning Time (SLT) Course content outline | Guic<br>(Face to                 |    | arning<br>) – GL F2 | 2F                 | Guided Learning Non-Face to Face – GL nonF2F *eLearning | Independent Learning<br>Non-Face to face – IL<br>nonF2F |   |
| CLO   | L                                | Т  | Р                   | 0                  |   |   |   |
| CLO1 – 40%  | //0.4*42<br>= <b>17h</b>         | 11 | 7 – 42              | = 75h              |   |   | // 0.4 x 120 =<br>48h minus Test<br>2h~ 46h |
| CLO2 – 50%  | //0.5 * 42 = <b>21h</b>          |    | to be di<br>nF2F -  |                    | ted in cells GL F2I<br>onF2F                            | F(T, P, O) + GL   | // 0.50 x 120 = <b>60h</b>                  |
| CLO3 – 10%  | //0.1 * 42 = <b>4h</b>           |    |                     | // 0.1 x 120 = 11h |   |   |   |
| Total SLT   | 42h<br>//3credit<br>x<br>14weeks |    |                     | 117h               |   |   |   |

L: Lecture ~F2F lecture, T: Tutorial, P: Practical~amali/lab, O: Others ~formative activities @virtual online class

| Coi  | ntinuous Assessment //Formative  | PLO  | Percentage | Total SLT        |
|------|----------------------------------|------|------------|------------------|
| 1    | Team Project                     | AP   | 18         | As in CLO2, CLO3 |
|      |                                  | PS   | 32         |                  |
|      |                                  | TW   | 10         |                  |
| Fin  | al <u>Assessment //Summative</u> | PLO  | Percentage | Total SLT        |
| 1    | Mid-Term Exam                    | KW   | 15         | As in CLO1 (2h)  |
| 2    | Final Examination                | KW   | 25         | 3h               |
| 2022 |                                  | 120h |            |                  |

117 h



|   | Distribution   |                          | Teaching and Learning Activities                |  |   |   |   |      |  |
|---|--|--------------------------|---|--|---|---|---|------|--|
| 9 | of student<br>Learning<br>Time (SLT) Course<br>content outline | 97930314000              | ided Learning<br>to Face) – <mark>GL F2F</mark> |  | 2F  | Guided Learning Non-Face to Face – GL nonF2F *eLearning | Independent Learning<br>Non-Face to face – IL<br>nonF2F |      |  |
|   | CLO  | L                        | Т   | Р  | 0   |   |   |      |  |
|   | CLO1 – 40%   | //0.4*42<br>= <b>17h</b> | 11  | 7 – 42   | // 0.4 x 120 =<br>48h minus Test<br>2h~ 46h |   |   |      |  |
|   | CLO2 – 50%   | //0.5 * 42 = <b>21h</b>  |   | * to be distributed in cells GL F2F (T, P, O) + GL $// 0.50 \times 120 =$ nonF2F + IL nonF2F |   |   |   |      |  |
|   | CLO3 <b>– 10%</b>  | //0.1 * 42 = <b>4h</b>   |   |  | // 0.1 x 120 = 11h                          |   |   |      |  |
|   | Total SLT  | 42h<br>//3credit<br>x    |   |  |   |   |   | 117h |  |
|   |  | 14weeks                  |   |  |   |   |   |      |  |

L: Lecture ~F2F lecture, T: Tutorial, P: Practical~amali/lab, O: Others ~formative activities @virtual online class

| Coi  | ntinuous Assessment //Formative  | PLO  | Percentage | Total SLT        |
|------|----------------------------------|------|------------|------------------|
| 1    | Team Project                     | AP   | 18         | As in CLO2, CLO3 |
|      |                                  | PS   | 32         |                  |
|      |                                  | TW   | 10         |                  |
| Fin  | al <u>Assessment //Summative</u> | PLO  | Percentage | Total SLT        |
| 1    | Mid-Term Exam                    | KW   | 15         | As in CLO1 (2h)  |
| 2    | Final Examination                | KW   | 25         | 3h               |
| 2022 |                                  | 120h |            |                  |

117 h



| Distribution of student Learning Time (SLT) Course content outline | Gui<br>(Face t                   |   |   | rning |                    | and Learning Activit Guided Learning Non-Face to Face – GL nonF2F *eLearning | ies Independent Learning Non-Face to face – IL nonF2F | TOTAL SLT  |
|--|----------------------------------|---|---|-------|--------------------|--|---|--|
| CLO  | L                                | Ŀ | Т | P     | 0                  |  |   |  |
| CLO1 – 40%   | //0.4*42<br>= <b>17h</b>         |   |   |       | = 75h              |  |   | // 0.4 x 120 =<br>48h minus Test<br>2h~ <b>46h</b> |
| CLO2 – 50%   | //0.5 * 42 = <b>21h</b>          |   |   |       | istribu<br>+ IL no | ted in cells GL F2I<br>onF2F   | F(T, P, O) + GL                                       | // 0.50 x 120 = <b>60h</b>                         |
| CLO3 – 10%   | //0.1 * 42 = <b>4h</b>           |   |   |       | // 0.1 x 120 = 11h |  |   |  |
| Total SLT  | 42h<br>//3credit<br>x<br>14weeks |   |   |       |                    |  |   | 117h   |

L: Lecture ~F2F lecture, T: Tutorial, P: Practical~amali/lab, O: Others ~formative activities @virtual online class

|                           | Coi | ntinuous Assessment //Formative  | PLO | Percentage    | Total SLT        |       |
|---------------------------|-----|----------------------------------|-----|---------------|------------------|-------|
|                           | 1   | Team Project                     | AP  | 18            | As in CLO2, CLO3 |       |
|                           |     |                                  | PS  | 32            |                  |       |
|                           |     |                                  | TW  | 10            |                  |       |
|                           | Fin | al <u>Assessment //Summative</u> | PLO | Percentage    | Total SLT        | 117 h |
|                           | 1   | Mid-Term Exam                    | KW  | 15            | As in CLO1 (2h)  |       |
|                           | 2   | Final Examination                | KW  | 25            | 3h               |       |
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| Distribution  |  | Teaching and Learning Activities |                    |   |   |   |                            |  |  |
|---|--|----------------------------------|--------------------|---|---|---|----------------------------|--|--|
| of student Learning Time (SLT) Course content outline | Guided Learning<br>(Face to Face) – GL F2F |                                  |                    |   | Guided Learning Non-Face to Face – GL nonF2F *eLearning | Independent Learning<br>Non-Face to face – IL<br>nonF2F |                            |  |  |
| CLO   | L  | Т                                | Р                  | 0   |   |   |                            |  |  |
| CLO1 – 40%  | //0.4*42<br>= <b>17h</b>                   | 11                               | 7 – 42             | // 0.4 x 120 =<br>48h minus Test<br>2h~ 46h |   |   |                            |  |  |
| CLO2 - 50%  | //0.5 * 42 = <b>21h</b>                    |                                  | to be di<br>nF2F - |   | ted in cells GL F21<br>onF2F                            | F(T, P, O) + GL   | // 0.50 x 120 = <b>60h</b> |  |  |
| CLO3 – 10%  | //0.1 *<br>42 = <b>4h</b>                  |                                  |                    | // 0.1 x 120 = 11h                          |   |   |                            |  |  |
| Total SLT   | 42h<br>//3credit<br>x<br>14weeks           |                                  |                    | 117h  |   |   |                            |  |  |

L: Lecture ~F2F lecture, T: Tutorial, P: Practical~amali/lab, O: Others ~formative activities @virtual online class

|    | Cor  | ntinuous Assessment //Formative  | PLO  | Percentage | Total SLT        |
|----|------|----------------------------------|------|------------|------------------|
|    | 1    | Team Project                     | AP   | 18         | As in CLO2, CLO3 |
|    |      |                                  | PS   | 32         |                  |
|    |      |                                  | TW   | 10         |                  |
|    | Fina | al <u>Assessment //Summative</u> | PLO  | Percentage | Total SLT        |
|    | 1    | Mid-Term Exam                    | KW   | 15         | As in CLO1 (2h)  |
|    | 2    | Final Examination                | KW   | 25         | 3h               |
| 20 | 122  | 0                                | 120h |            |                  |

117 h



| Distribution  |                          | Teaching and Learning Activities |                    |                    |   |   |  |  |  |
|---|--------------------------|----------------------------------|--------------------|--------------------|---|---|--|--|--|
| of student Learning Time (SLT) Course content outline | Guid<br>(Face to         |                                  | arning<br>) – GL F | 2F                 | Guided Learning Non-Face to Face – GL nonF2F *eLearning | Independent Learning<br>Non-Face to face – IL<br>nonF2F |  |  |  |
| CLO   | L                        | Т                                | Р                  | 0                  |   |   |  |  |  |
| CLO1 – 40%  | //0.4*42<br>= <b>17h</b> | 11                               | 7 – 42             | = 75h              |   |   | // 0.4 x 120 =<br>48h minus Test<br>2h~ <b>46h</b> |  |  |
| CLO2 – 50%  | //0.5 * 42 = <b>21h</b>  | •                                | to be donF2F -     |                    | ted in cells GL F2I<br>onF2F                            | F(T, P, O) + GL   | // 0.50 x 120 = <b>60h</b>                         |  |  |
| CLO3 – 10%  | //0.1 * 42 = <b>4h</b>   |                                  |                    | // 0.1 x 120 = 11h |   |   |  |  |  |
| Total SLT   | 42h<br>//3credit<br>x    | L                                |                    | 117h               |   |   |  |  |  |
|   | 14weeks                  |                                  |                    |                    |   |   |  |  |  |

L: Lecture ~F2F lecture, T: Tutorial, P: Practical~amali/lab, O: Others ~formative activities @virtual online class

|                         | Cor                                  | ntinuous Assessment //Formative  | PLO | Percentage | Total SLT        |  |  |  |  |  |
|-------------------------|--------------------------------------|----------------------------------|-----|------------|------------------|--|--|--|--|--|
|                         | 1                                    | Team Project                     | AP  | 18         | As in CLO2, CLO3 |  |  |  |  |  |
|                         |                                      |                                  | PS  | 32         |                  |  |  |  |  |  |
|                         |                                      |                                  | TW  | 10         |                  |  |  |  |  |  |
|                         | Fina                                 | al <u>Assessment //Summative</u> | PLO | Percentage | Total SLT        |  |  |  |  |  |
|                         | 1                                    | Mid-Term Exam                    | KW  | 15         | As in CLO1 (2h)  |  |  |  |  |  |
|                         | 2                                    | Final Examination                | KW  | 25         | 3h               |  |  |  |  |  |
| Noraini Ibrahim, SC UTM | aini Ibrahim, SC UTM 2022_© Grand To |                                  |     |            |                  |  |  |  |  |  |



| Distribution  |                                  | Teaching and Learning Activities           |                     |   |   |                 |  |                            |  |  |
|---|----------------------------------|--|---------------------|---|---|-----------------|--|----------------------------|--|--|
| of student Learning Time (SLT) Course content outline |                                  | Guided Learning<br>(Face to Face) — GL F2F |                     | Guided Learning Non-Face to Face – GL nonF2F *eLearning | Independent Learning<br>Non-Face to face – IL<br>nonF2F |                 |  |                            |  |  |
| CLO   | L                                | Т  | Р                   | 0   |   |                 |  |                            |  |  |
| CLO1 – 40%  | //0.4*42<br>= <b>17h</b>         | 11   | 7 – 42              | // 0.4 x 120 =<br>48h minus Test<br>2h~ <b>46h</b>      |   |                 |  |                            |  |  |
| CLO2 – 50%  | //0.5 * 42 = <b>21h</b>          |  | to be don<br>5 nF2F |   | ted in cells GL F21<br>onF2F                            | F(T, P, O) + GL |  | // 0.50 x 120 = <b>60h</b> |  |  |
| CLO3 – 10%  | //0.1 * 42 = <b>4h</b>           |  |                     |   | // 0.1 x 120 = <b>11h</b>                               |                 |  |                            |  |  |
| Total SLT   | 42h<br>//3credit<br>x<br>14weeks |  |                     | 117h  |   |                 |  |                            |  |  |

L: Lecture ~F2F lecture, T: Tutorial, P: Practical amali/lab, O: Others formative activities @virtual online class

| Coi  | ntinuous Assessment //Formative  | PLO  | Percentage | Total SLT        |
|------|----------------------------------|------|------------|------------------|
| 1    | Team Project                     | AP   | 18         | As in CLO2, CLO3 |
|      |                                  | PS   | 32         |                  |
|      |                                  | TW   | 10         |                  |
| Fin  | al <u>Assessment //Summative</u> | PLO  | Percentage | Total SLT        |
| 1    | Mid-Term Exam                    | KW   | 15         | As in CLO1 (2h)  |
| 2    | Final Examination                | KW   | 25         | 3h               |
| 2022 | 0                                | 120h |            |                  |

Noraini Ibrahim, SC UTM

117 h



### (After) SLT revision

#### Student learning time (SLT) details:

| Distribution of student                          |        |     |                    |     | Teaching and                        | d Learning Activities                    | TOTAL SLT |
|--|--------|-----|--------------------|-----|-------------------------------------|--|-----------|
| Learning<br>Time (SLT) Course<br>content outline | C      |     | Learnin<br>o Face) | _   | Guided Learning<br>Non-Face to Face | Independent Learning<br>Non-Face to face |           |
| CLO  | L      | T   | Р                  | 0   |                                     |  |           |
| CLO1   | 17h    |     |                    | 2h* | 17h                                 | 10h                                      | 46h       |
| CLO2   | 21h    | 21h |                    |     | 19h                                 | 20h                                      | 60h       |
| CLO3   | 4h     |     | 3h                 | 4h  | 11h                                 |  |           |
| Total SLT  | 42h 2h |     |                    | 2h  | 39h                                 | 34h                                      | 117       |

L: Lecture, T: Tutorial, P: Practical, O: Others (\*Test)

| Continuous Assessment |                   | PLO  | Percentage | Total SLT        |
|-----------------------|-------------------|------|------------|------------------|
| 1                     | Team Project      | AP   | 18         | As in CLO2, CLO3 |
|                       |                   | PS   | 32         |                  |
|                       |                   | TW   | 10         |                  |
| Fin                   | al Assessment     | PLO  | Percentage | Total SLT        |
| 1                     | Mid-Term Exam     | KW   | 15         | As in CLO1 (2h)  |
| 2                     | Final Examination | KW   | 25         | 3h               |
|                       |                   | 120h |            |                  |



### 2021/2022 -02

#### Year-2 COVID-19

| No  | . CLO   | PLO (Code)   | *Taxonomies<br>and<br>**generic skills | T&L methods   | ***Assessment methods  |
|-----|---|--------------|--|---|--|
| CLC | Analyze the concepts of system development life cycle (SDLC) in an information systems project using structured methodology | PLO1 (KW)    | C4                                     | KWL chart, Jigsaw-<br>activity, Mind-<br>mapping, In-class<br>problem solving | Mid-Term Exam<br>(10%) Alternative<br>Assessment (10%)                                     |
|     | Develop hi-fidelity prototype of information system for the real-world  | PLO2 (AP)    | C5                                     | Team Discussion<br>Think-Pair-Share,<br>Project - case study                  | Phase 1 Report (5%) Phase 2 Report (5%) Phase 3 Report (10%)                               |
| CLC |   | PLO3<br>(PS) | C5                                     |   | Phase 1 Report (5%) Phase 2 Report (10%) Phase 3 Report (15%) Alternative Assessment (20%) |
| CLC | Ability to do work effectively in a team in delivering the SDLC output.   | PO7<br>(TW)  | TW1, P3                                | Collaborative team engagement, Project planning, Self & peers reflection      | 3 Phases x Peer<br>Assessment (10%)  |

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#### Main References

- 1. UTM CEE, Tips writing CLO (Videos collection - https://tree.utm.my/blog/videos/)
- 2. UTM CDex, Student Learning Time
- 3. UTM CDex, B4DCP Module 2A Course Information

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# Any last words? Today, I have learnt...

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