

GUIDELINE ASSIGNMENT 4

DMFM 2122 CAD/CAM

SEMESTER 2

SESSION 2020/2021

1.0 Learning Outcomes

At the end of this lab report, students should be able to;

- i. Create surface applying extruded, revolution, swept, offset and multi-section surfaces.
- ii. Write a report of CATIA laboratory activities for surface modelling.

2.0 Question

Create a part in 3D surface modeling using CATIA software. Apply extruded, revolution, swept, offset and multi-section surfaces command from the toolbar for creating the 3D part modelling surface however not limited to. Upon completion the 3D part surface modelling then converts to 3D part solid modelling. Show the projection view of 2D drawing in front view, top view, left view, section, detail, isometric view and including frame block.

3.0 Report (Individual report)

Write a complete report following the question above. Product complexity including apply extruded, revolution, swept, offset and multi-section surfaces however not limited to. Format of the report should include the following:

- 1) Format of report: front page of report & table of contents.
- 2) Introduction of project: 3D part surface modelling.
- 3) Product complexity including apply extruded, revolution, swept, offset constraints and multi-section surfaces.
- 4) Writing procedure: 3D part surface modelling.
- 5) Write procedure: converting 3D part surface to 3D part solid modelling
- 6) Projection view: front, side, bottom, section, detail area, isometric and frame block.
- 7) Conclusion and references

4.0 Submission

- Lab report should be uploaded into Ulearn in PDF file and PDF file must be in one file contain all pages including front page (please follow the template given).
- Softcopy CATIA file also need to be uploaded in ulearn. 3D part and 2D Drafting.
- Submission should be uploaded before 30 June 2021 (Wednesday).