Course Outcome Summary

Standard Course

MDTC 232 Advanced SOLIDWORKS – CSWP

Course Information
Division	**ASET**
Contact Hours	**60**
Theory	**20**
Lab Hours	**40**
Total Credits	**3**

Prerequisites   MDTC 228

Course Description
The Advanced SOLIDWORKS - CSWP course teaches students how to design and analyze parametric parts and moveable assemblies using a variety of complex features in SOLIDWORKS. Advanced part modeling, advanced assembly modeling, sheet metal, and weldments are covered. Additionally, the course is designed to help students prepare and successfully pass the Certified SOLIDWORKS Professional (CSWP) exam.

Course Outcomes
In order to evidence success in this course, students will be able to:

1. Demonstrate how to create linked dimensions, global variables, and equations.
2. Demonstrate the process of creating configurations via the configuration manager and design tables.
3. Demonstrate advanced SOLIDWORKS part commands such as advanced fillets, sweeps, and lofts.
4. Demonstrate how to create multibody parts.
5. Understand advanced assembly features and component patterns.
6. Demonstrate how to apply advanced mates and troubleshoot mates.
7. Demonstrate how to create assembly configurations.
8. Understand top-down assembly design.
9. Articulate the key topics covered in the CSWP exam.