**Amna Khan (Jan ’25 – Jun ’25)**

1. Modification of Vorlax Module to modify included flight conditions and component wise geometry generation
2. Automating geometry generation as per limitations of MnS analysis modules (Vorlax, Athena)
3. Modifying and integrating Athena’s MATLAB code to generate updated input files
4. HSTD-40 Validation on MnS and MDO (Configuration 5 and 7)
5. Modifying and debugging Athena’s code for fuselage generation of all types of models for stability analysis
6. Drafting the iMDO Concept Paper
7. Modification of optimizer code to include various surrogate estimations models as per MnS dataset
8. JF-17 VSP geometry generation
9. KaGeM validation on MnS without winglets
10. Documentation of MnS framework and module wise updates