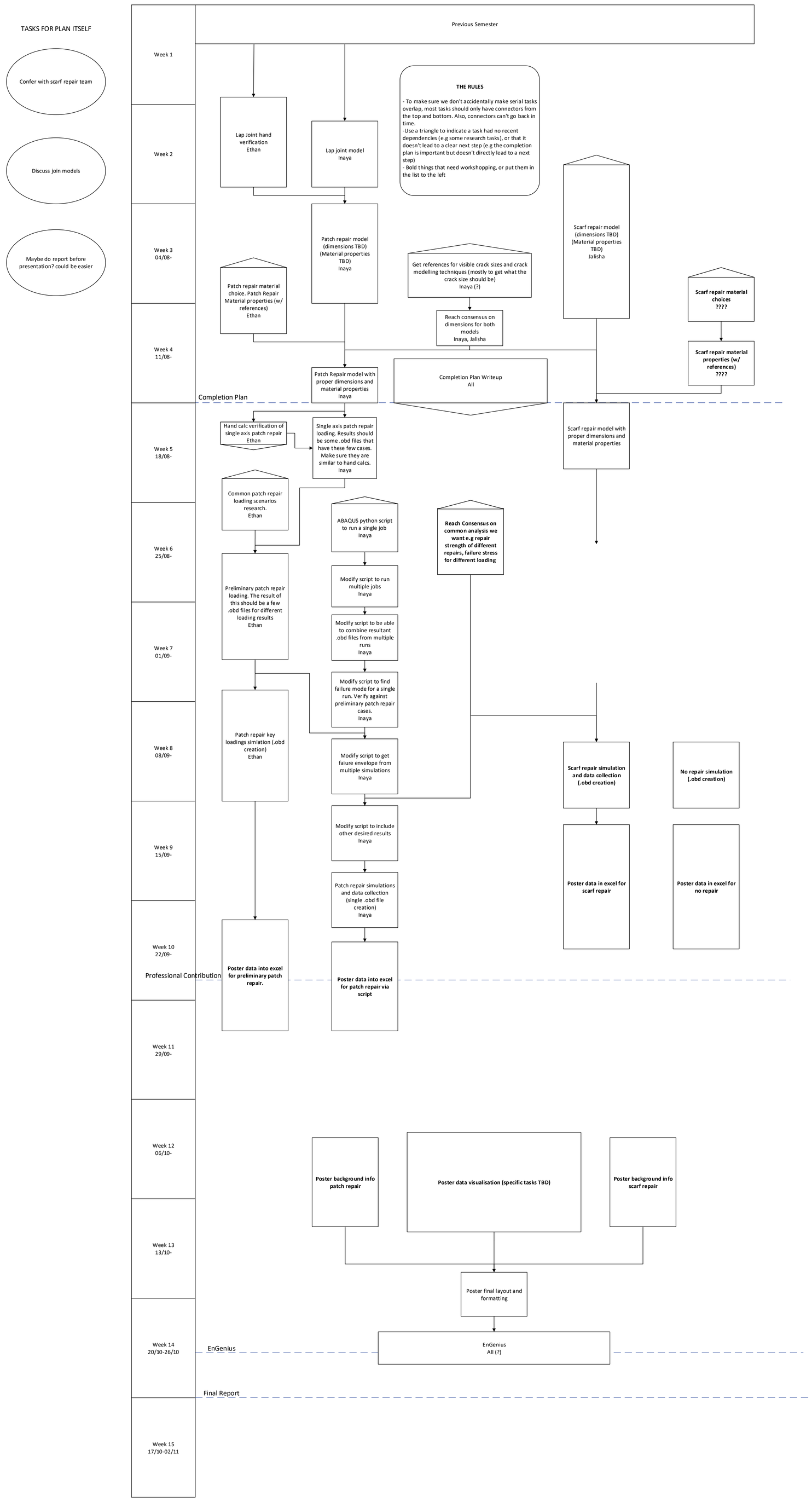
TASKS FOR PLAN ITSELF
Confer with scarf repair team
Discuss join models
Maybe do report before presentation? could be easier
Week 1
Week 2
Week 3 04/08-
Week 4 11/08-
Week 5 18/08-
Week 6 25/08-
Week 7 01/09-
Week 8 08/09-
Week 9 15/09-
Week 10 22/09-
Week 11 29/09-
Week 12 06/10-
Week 13 13/10-
Week 14 20/10-26/10
Week 15 17/10-02/11
Previous Semester
THE RULES
- To make sure we don't accidentally make serial tasks overlap, most tasks should only have connectors from the top and bottom. Also, connectors can't go back in time.
-Use a triangle to indicate a task had no recent dependencies (e.g some research tasks), or that it doesn't lead to a clear next step (e.g the completion plan is important but doesn't directly lead to a next step)
- Bold things that need workshopping, or put them in the list to the left
Lap Joint hand verification Ethan
Lap joint model Inaya
Patch repair model (dimensions TBD) (Material properties TBD) Inaya
Patch repair material choice. Patch Repair Material properties (w/ references) Ethan
Get references for visible crack sizes and crack modelling techniques (mostly to get what the crack size should be) Inaya (?)
Reach consensus on dimensions for both models Inaya, Jalisha
Scarf repair model (dimensions TBD) (Material properties TBD) Jalisha
Scarf repair material choices ????
Scarf repair material properties (w/ references) ????
Completion Plan Writeup All
Patch Repair model with proper dimensions and material properties Inaya
Completion Plan
Hand calc verification of single axis patch repair Ethan
Single axis patch repair loading. Results should be some .obd files that have these few cases. Make sure they are similar to hand calcs. Inaya
Scarf repair model with proper dimensions and material properties
Common patch repair loading scenarios research. Ethan
ABAQUS python script to run a single job Inaya
Reach Consensus on common analysis we want e.g repair strength of different repairs, failure stress for different loading
Preliminary patch repair loading. The result of this should be a few .obd files for different loading results Ethan
Modify script to run multiple jobs Inaya
Modify script to be able to combine resultant .obd files from multiple runs Inaya
Modify script to find failure mode for a single run. Verify against preliminary patch repair cases. Inaya
Patch repair key loadings simlation (.obd creation) Ethan
Modify script to get faiure envelope from multiple simulations Inaya
Scarf repair simulation and data collection (.obd creation)
No repair simulation (.obd creation)
Modify script to include other desired results Inaya
Poster data in excel for scarf repair
Poster data in excel for no repair
Patch repair simulations and data collection (single .obd file creation) Inaya
Professional Contribution
Poster data into excel for preliminary patch repair.
Poster data into excel for patch repair via script
Poster background info patch repair
Poster data visualisation (specific tasks TBD)
Poster background info scarf repair
Poster final layout and formatting
EnGenius
EnGenius All (?)
Final Report