

WEEKS 1-3

Project Pitch

WEEK 4-6

SPRINT 1 REVIEW

WEEKS 7&8

SPRINT 2 REVIEW

WEEKS 10-13

SPRINT 3 REVIEW

WEEK 15-16

IDENTIFICATION & JUSTIFICATION OF THE OPPORTUNITY

- Accessibility Simulation & Design Theme
- Ethnography & Site Observation Activity
- Opportunity Proposals
- Team formation, mission statements, team logo & team charters
- Identify primary Subject Matter Expert (SME)
- Background/Rationale Research
- **PROJECT PITCH PREP**
- **BINDER CHECKS**
- **PART 1 of IPP**

SPRINT 1

- Outcome-driven Innovation & customer needs statements
- Compile “Must do, might do, must NOT do” requirements
- Patent Searches, Market Research
- Concept Generation activities
- Concept Screening & Selection, Decision matrices
- Prototyping in Design
- Mock-up (small scale, Level 1) prototypes of top 2 concepts to gather customer feedback
- **SPRINT REVIEW PREP**
- **BINDER CHECKS**

SPRINT 2

- Final concept selection based on feedback
- Iterate Design Requirements based on feedback
- Quantify at least one design requirement into a target specification related to customer productivity
- Revise design and build next level prototype (full scale)
- Create bill of materials with cost, place material orders
- Gather customer feedback including price
- **SPRINT REVIEW PREP**
- **BINDER CHECKS**
- **PART 2 of IPP**

SPRINT 3

- Iterate Design Requirements based on feedback
- Revise and/or add additional quantifiable target specifications
- Revise bill of materials with cost
- Final product architecture drawing (with component info)
- BOM & Target Costing
- Build Final Prototype
- Robust Design & Product Testing
- Test final prototype and gather customer feedback
- **SPRINT REVIEW PREP**
- **BINDER CHECKS**
- **PART 3 of IPP**

FINAL SPRINT

- Final product refinements based on feedback and test data
- Deliver the working prototype to the customer
- **FINAL BINDER CHECKS**
- **FINAL INDIVIDUAL PROJECT PAPER (IPP)**
- **FINAL PROTOTYPE**
- **FINAL EXPO POSTER**
- **FINAL EXPO VIDEO**

Photo Documentation of the Design Process

PROJECT TIMELINE

EGE 2123 Entrepreneurial Engineering Design Studio