

# Chapter 1

## Introduction

The DSE Project to design an all plastic, high altitude observation UAV is performed by ten students of the TU Delft. This project plan gives an insight in the project itself and the planning for the upcoming weeks. First, the project is analysed on different criteria. The Mission Need Statement (MNS) and Project Objective Statement (POS) are given. Top level requirements given are shown, from which a general description of the entire system is derived. Next the project planning and organisation is described.

The planning and organisation is divided into several sections. It starts with a Work Flow Diagram (WFD) which shows different tasks to be performed and the order they need to be performed in. From this, a more elaborated diagram on the work is derived, the Work Breakdown Structure (WBS) is explained. An Organisational Breakdown Structure will show who will perform which task. The above is put together in a Gantt chart, showing the activities on a timeline for the upcoming weeks.

At the end, sustainability is taken into account. Because sustainable development is of ever increasing importance in designing anything, for this project the impact of the design on the environment will be monitored. It can play a role in the decision making for different materials or propulsion systems e.g. The approach on how to implement sustainability is given here.