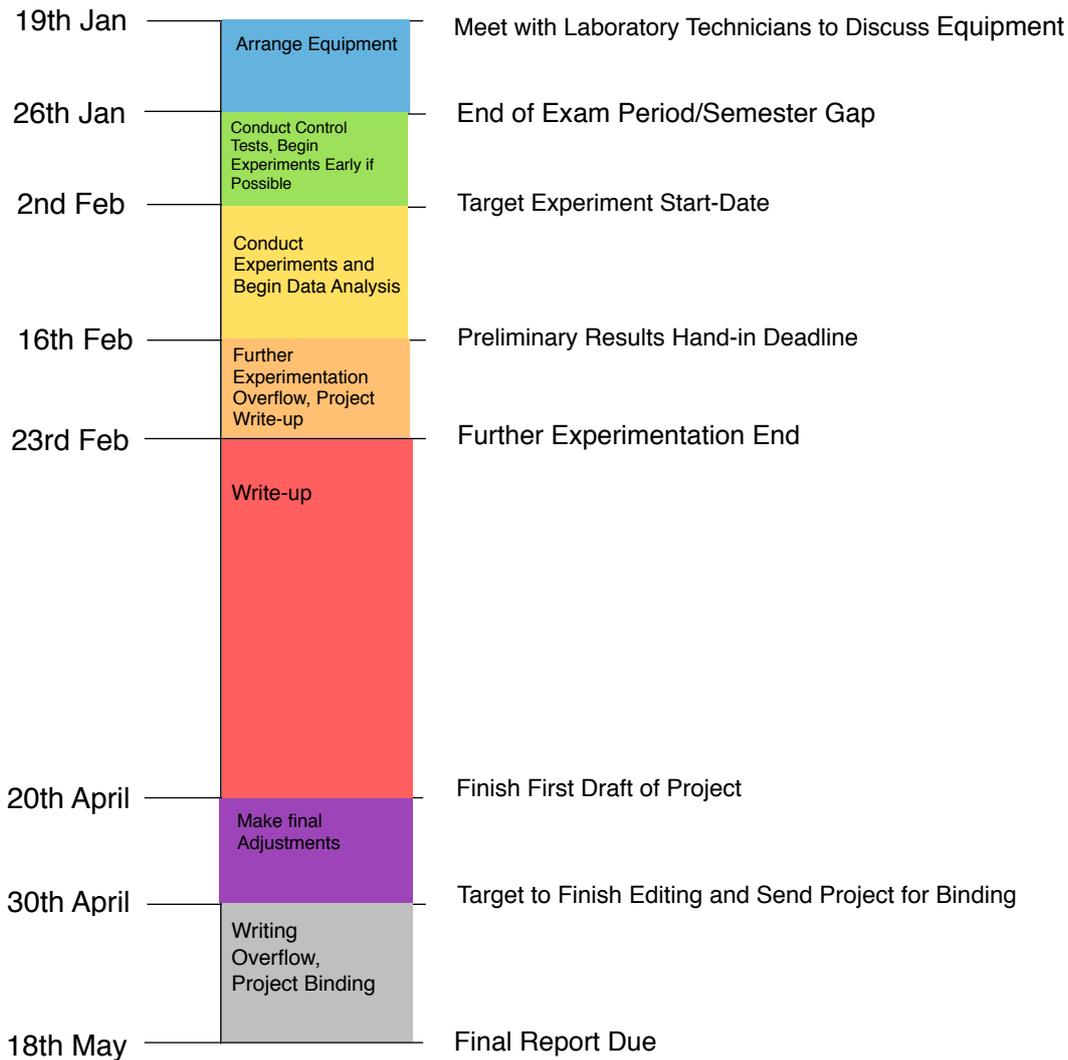


The Effect of Earth's Atmosphere on Solar Radiation Project Plan

As this study is a third year degree project/dissertation, we must allow ample time around deadlines to allow for other course related time consumption, such as lectures, exams, external study and coursework. This project is also weather dependant, and so plenty of time must be allocated for data collection as this may not play in our favour. There will also need to be allowances for the fact that many other people will be doing dissertation projects at this time also, so there will likely be a high demand for resources such as help from the laboratory technicians and project binding before the hand-in date. Below is a diagram of the timeline of the study, with strict deadlines, target dates and 'overflow' time outlined:



Write-up of the project will also be done during the time the experiments are being undertaken, in particular the results section, which should mean that little time will be needed for additional tweaking before the February 16th deadline for preliminary results. The gap between February 23rd and April 20th will allow plenty of time (8 weeks) for further write-up, though there will still be some overflow time incase this does not go to plan, as well as for additional editing.

The experiments should approximately take between half an hour and an hour (including travel time) per round, though as the experiment involves taking measurements from different locations with the same zenith angles of the sun, and hence at approximately the same times of day, no more than one location's data could be collected each day. As five locations are planned for this

study, five days will be needed to collect data, as well as at least one cloudy day for additional experiments involving the effects of cloud cover. 2-3 weeks should be enough time to allow for this given the time of year, though if the weather is too poor the study will have to only consider different zenith angles at one location. If the weather proves particularly unfortunate and there are no clear days at all to take readings, data from other studies will have to be used. Weather permitting, repeat tests will be taken.

Below is a table of the resources that will be required, where they shall be acquired from, the date they will be needed by, and who we will need to discuss the availability and use of the item with:

Item	Available at	Date needed	Available from
Spectrometer with programme	Aberystwyth University, IMAPS	26/01/2015	Lab Technicians
Solar Telescope, with carry bags, stand.	Aberystwyth University, IMAPS	26/01/2015	Lab Technicians
Neutral filter	Aberystwyth University, IMAPS	26/01/2015	Lab Technicians
Dark plastic tubing	Aberystwyth University, IMAPS	26/01/2015	Lab Technicians
Barometer	Aberystwyth University, IMAPS	02/02/2015	Lab Technicians
Car	Already in possession	02/02/2015	N/A
Electronic OS sat map	Already in possession	02/02/2015	N/A
Hiking equipment, e.g. Hiking boots	Already in possession	02/02/2015	N/A
Hiking first aid kit	Already in possession	02/02/2015	N/A

The equipment will be set up to form a system of a particular design, though this is fairly simple so there will unlikely be any need for help from anyone besides our supervisor in this.