## QEF Project 2007/0471 Development of Learning and Teaching Resources in 'Astronomy and Space Science' Elective Module in New Senior Secondary Physics Curriculum Outline of Investigations

Investigations	Methods	Deliverables
1. Change in distance	Photograph the moon and find	A written report and a presentation
between the Earth and the	the distance to the moon. Repeat	with a graph of distance against
moon with time	this for at least a few days.	time.
2. The origin and evolution	Photograph various regions of the	A written report and a presentation
of lunar features	lunar surface and learn the	with pictures of various parts of the
	formation and evolution of the	moon and descriptions of their
	features by extensive reading.	evolution.
3. Change of the moon in	Photograph the full moon	A written report describing various
one night	periodically for at least half of a	changes and a presentation with
	night, investigating the change in	appropriate animations illustrating
	colour, size, shape and brightness	the changes.
	of the moon quantitatively.	
4. Solar phenomena	Photograph pictures of special	A written report and a presentation
	features on a solar surface and	with pictures of solar features and
	learn about their nature by	descriptions of their nature.
	extensive reading.	
5. Sun in multiple	Monitor the change in the size	A written report and a presentation
wavelengths	and shape of sunspot by	describing the change in sunspot
	photographing the sunspot for a	both quantitatively and
	few consecutive days.	qualitatively.
6. Measurement of the	Find the rotational rate of the sun	A written report and a presentation
rotational rate of the sun	by photographing the solar disk	describing the methodology and
	for a few consecutive days.	results.