

Part B: Project Summary

Project Title: Development of Learning and Teaching Resources in 'Astronomy and Space Science' Elective Module in New Senior Secondary Physics Curriculum 發展新高中物理科選修單元「天文學和太空科學」學與教資源	Project Number 2007/0471
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Name of Organization: Munsang College (Hong Kong Island)

- (1) Goals: Develop learning and teaching resources in 'Astronomy and Space Science' elective module in new senior secondary physics curriculum
- Objectives:
- (i) Experiment with six investigative studies that can be used in NSS physics.
 - (ii) Students develop generic skills through investigative studies
 - (iii) Students and the public are given more opportunities to gain a deeper appreciation about the wonders of the universe
- (2) Targets and expected number of beneficiaries:
- Direct beneficiaries: 30 students and 3 physics teachers carrying out investigative studies in this project, and about 1000 students in school who are interested in the findings of the studies.
- Indirect beneficiaries: Thousands of physics teachers in Hong Kong and the general public
- (3) Implementation Plan:
- (i) Duration: 9/2008–8/2010
 - (ii) Schedule: 9/2008–3/2009: Recruitment and training of students
4/2009–2/2010: Carrying out investigative studies
3/2010–8/2010: Using findings in investigative studies to provide guided observations in various astronomy outreach programmes
- (4) Products:
- (i) Deliverables/outcomes:
 - Documents describing how to carry out six investigative studies, the difficulties in guiding students and their potential solutions.
 - Six written reports for the six investigative studies.
 - A website for sharing of resources developed in this project.
 - Students develop generic skills.
 - Teachers gain experience in guiding students in investigative studies
 - Students gain knowledge and interest in astronomy, and a deeper appreciation about the wonders of the universe
 - (ii) Dissemination of deliverables/outcomes:
 - A project website that is open to the public will be set up to share the learning and teaching resources that are developed in this project.
 - If the project is successful, local educational organizations will be contacted to look into the possibility of project material sharing in seminars or websites.
- (5) Budget:
- Equipments: \$94,400
Total grant requested from QEF: \$94,400
- (6) Evaluation:
- (i) Performance indicators
Questionnaires, interviews with students, minutes of teachers' meetings on the difficulties and solution in guiding students, etc.
 - (ii) Outcome measurements
Number of students with improved generic skills, number of outreach programmes organized, number of participants with increased appreciation of the wonders of the universe, etc.