

CCC CHUEN YUEN COLLEGE
PROGRAMME PLAN OF PHYSICS 2016-2017

1. Aims

The aim is to provide physics-related learning experiences for students to develop scientific literacy, so that they can participate actively in our rapidly changing knowledge-based society, prepare for further studies or careers in fields related to physics, and become lifelong learners in science and technology.

2. Present Situation

2.1 Strengths

1. All teachers have good working experience and with good team spirit.
2. All physics teachers and technician have good mastering of IT.

2.2 Weaknesses

1. Physics is a subject with a lot of abstract idea and students always find it difficult to visualize and understand the concept.
2. Some S.3 students may not take science subjects in S.4. They may give up and lose interest in Physics.
3. Some S.4 Physics students are weak in Physics foundation.

3. Objectives

1. Students are motivated to learn, able to learn and have confidence to learn.
2. Students' academic performance is enhanced.
3. Students are self-motivated and able to achieve their own goals
4. Students enjoy their school life.

4. Work Plan and Evaluation

Objectives	Strategies	Success Criterion	Evaluation Methods
1. Students are motivated to learn, able to learn and have confidence to learn	1.1 To refine teaching pedagogies to enhance students' high-order thinking skills. (a) To strengthen students' high-order thinking skills using in-class worksheets and revision video. (b) To share / develop interactive teaching methods to enhance students' active learning capacity.	<ul style="list-style-type: none"> ◇ Over 80% of teachers agree the revised lesson strategies will enhance students' learning. ◇ Each teacher has to participate in peer classroom observation at least once in each term either to observe or to be observed. ◇ Panel heads will review the revised lesson plans and talk with their members. 	<ul style="list-style-type: none"> ◇ Lesson observation ◇ Exercise books inspection ◇ Feedback from teachers and students ◇ Departmental reports ◇ Interview with students
	1.2 To deploy IT in education to sustain self-regulated learning / facilitate classroom interactive learning / facilitate teachers' feedback to enhance teaching and learning effectiveness. (a) To engage students more in the learning process. (b) To use on-line exercises every week / video watching for revision.	<ul style="list-style-type: none"> ◇ Over 80% of students agree their motivation in learning has been enhanced. 	<ul style="list-style-type: none"> ◇ Report on Stakeholders Survey and Teaching Effectiveness Survey ◇ Interview with students ◇ Departmental reports

	1.3 To revise the homework policy to motivate students' interest in learning. (a) To design diversified learning tasks / assignments to help students develop a sense of achievement.	<ul style="list-style-type: none"> ✧ Over 70% of students submit work of good quality. 	<ul style="list-style-type: none"> ✧ Report on Stakeholders Survey and Teaching Effectiveness Survey ✧ Interview with students ✧ Departmental reports
	1.4 To revise the assessment strategies to enhance learning effectiveness. (a) To analyze the assessment data after tests and examinations to make suitable enrichment or consolidation measures. (b) Self / peer assessment (at least once a month) to help students identify their strengths and weaknesses and guide them to make self-reflection for achieving improvement more effectively. (c) To review the mode of assessment and level of difficulties of test and examination papers to cater for learner diversity (70% easy to medium level, 30% high order thinking).	<ul style="list-style-type: none"> ✧ At least 80% students get improvement in tests. ✧ Review on the design of test / examination papers is completed. ✧ At least 5% rises in credit percentage in examination compared with last year. 	<ul style="list-style-type: none"> ✧ Report on Stakeholders Survey and Teaching Effectiveness Survey ✧ Interview with students ✧ Departmental reports
2. Students' academic performance is enhanced.	2.1 To revise the enhancement measures to help more able students to sharpen their learning skills. (a) To consolidate students' synthetic and analytical skills with supplementary practice and individual guidance.	<ul style="list-style-type: none"> ✧ At least 5% rises in the number of students attaining Level 4 and 5 in DSE. 	<ul style="list-style-type: none"> ✧ DSE results
	2.2 To revise the remedial measures for less able students to develop their learning habits and increase their confidence in learning. (a) To develop learning habits and study skills of less able students with after-school programmes and supplementary practice.	<ul style="list-style-type: none"> ✧ At least 5% rises in the number of students attaining Level 2 or above in DSE. 	<ul style="list-style-type: none"> ✧ DSE results
3. Students are self-motivated and able to achieve their own goals.	3.1 To develop a holistic career and life planning. (a) To explore career opportunities with videos in the field of Physics.	<ul style="list-style-type: none"> ✧ Over 80% of students are satisfied with the curriculum that can let them explore more in Physics. 	<ul style="list-style-type: none"> ✧ Departmental Reports
4. Students enjoy their school life.	4.1 To provide rich co-curricular learning opportunities to students. (a) To join internal or external competitions (STEM project). (b) To exhibit students' good work.	<ul style="list-style-type: none"> ✧ Over 80% of students agree that these competitions can enrich and increase their learning opportunities. ✧ Over 80% of students agree that displaying good work of students outside laboratory can recognize the efforts of students and encourage students to learn and appreciate others' work. 	<ul style="list-style-type: none"> ✧ Departmental Reports

5. Program Team

Mr. LAU Kwok Keung (Chairman)

Mr. LAM Chi Wai

Mr. LEUNG Chi Cheong

Mr. LEUNG Siu Chun (Laboratory technician)