



Course Description

Subject: Practical Science 5

Code: SC23202

Hours: 40

Credit: 1.0

Class: Secondary 3A-B Semester: 1 / 2014

Instructor: Hearlfe Diana and Akanut Kankornsurapanee

Unit	Learning Outcomes
1. Research Work Research Work (ASEAN)	<ol style="list-style-type: none">1. Analyze and summarize the importance of each scientific method of research.2. Determine the scientific technological information from various sources.3. Think and select the proper study of scientific project for possibility of experiment and equipment.4. Construct briefly the scientific project and create basic experimental by making conclusion, designing or modifying experiment and apparatus for problem solution5. Construct the outline project by applying the studied scientific method.

Measurement and Evaluation

Total 100 marks (Assessment 60 marks: Midterm test / Final test 40 marks)

Measurement and Evaluation	Evaluation Method	Assessment tool	Marks	Learning Outcomes
1. Pre-midterm	Oral participation, Homework, Laboratory Activity, Project	Teacher Review, Notebook, Experiment Paper, Project (presentation)	25	1-3
2. Midterm test	Midterm Examination	Research Paper	20	1-3

Measurement and Evaluation	Evaluation Method	Assessment tool	Marks	Learning Outcomes
3. Post-midterm	Oral participation, Homework, Laboratory Activity, Project	Teacher Review, Notebook, Experiment Paper, Testpaper, Project (presentation)	25	4-5
4. Final test	Final Examination	Research Paper	20	4-5
5. Desirable Characteristics	Love of nation, religion and king Honesty and integrity Self-discipline Avidity for learning Observance of principles of Sufficiency Economy Philosophy in one's way of life Dedication and commitment to work Cherishing Thai-ness. Public-mindedness Awareness of drugs and vice. Assertive leadership.	Behavior	10	
6. Competencies	Communication capacity Thinking capacity Problem-solving capacity Capacity for applying life skills Capacity for technological application	Students	-	



Course Description

Subject: Practical Science 6

Code: SC23204

Hours: 40

Credit: 1.0

Class: Secondary 3A-B Semester: 2 / 2014

Instructor: Hearlfe Diana and Akanut Kankornsurapanee

Unit	Learning Outcomes
2. Research Work Research Work (ASEAN)	<ol style="list-style-type: none">1. Collect data, conduct experiment completely, interpret and conclude the results correctly.2. Write science project report completely and accurately.3. Present science project report fluently with confidence.4. Obtain science process skills, scientific method and laws for problem solving based on the study.

Measurement and Evaluation

Total 100 marks (Assessment 60 marks: Midterm test / Final test 40 marks)

Measurement and Evaluation	Evaluation Method	Assessment tool	Marks	Learning Outcomes
1. Pre-midterm	Oral participation, Homework, Laboratory Activity, Quizzes, Unit Test, Project	Teacher Review, Notebook, Experiment Paper, Testpaper, Project (presentation)	25	1-2
2. Midterm test	Midterm Examination	Research Paper	20	1-2
3. Post-midterm	Oral participation, Homework, Laboratory Activity, Quizzes, Unit Test, Project	Teacher Review, Notebook, Experiment Paper, Testpaper, Project (presentation)	25	3-4
4. Final test	Final Examination	Research Paper	20	3-4

Measurement and Evaluation	Evaluation Method	Assessment tool	Marks	Learning Outcomes
5. Desirable Characteristics	Love of nation, religion and king Honesty and integrity Self-discipline Avidity for learning Observance of principles of Sufficiency Economy Philosophy in one's way of life Dedication and commitment to work Cherishing Thai-ness. Public-mindedness Awareness of drugs and vice. Assertive leadership.	Behavior	10	
6. Competencies	Communication capacity Thinking capacity Problem-solving capacity Capacity for applying life skills Capacity for technological application	Students	-	