

COURSE SYLLABUS

1. **Program of Study:** Bachelor of Science (Physics)
Faculty/Institute/College: International College, Mahidol University
2. **Course Code:** ICPY 343
Course Title: Integrated Laboratory in Physics III
3. **Number of Credits:** 2 (0-4-2) (Lecture/lab/Self-study)
4. **Prerequisites:** None
5. **Type of Course:** Required Major Course
6. **Session / Academic Year:** 3rd Trimester/every academic year
7. **Course Conditions:** None
8. **Course Description:**
 Laboratory practice on modern Physics, atomic and nuclear Physics.

9. Course Objectives:

After successful completion of this course, students will be able to
 9.1 carry out the experiments to solve problems in modern Physics, atomic and nuclear physics

10. Course Outline

Week	Topics	Hours			Instructor
		Lecture	Lab	Self study	
1-2	Modern physics, atomic and nuclear physics Lab 1-2	-	8	4	Assist Prof Dr. Santi Watanayon
3-4	Modern physics, atomic and nuclear physics Lab 3-4	-	8	4	Assist Prof Dr. Santi Watanayon
5-6	Modern physics, atomic and nuclear Physics Lab 5-6	-	8	4	Assist Prof Dr. Santi Watanayon
7	Midterm Examination	-	4	-	Assist Prof Dr. Santi Watanayon
8-9	Modern physics, atomic and nuclear physics Lab 7-8	-	8	4	Assist Prof Dr. Santi Watanayon

10-11	Modern physics, atomic and nuclear physics Lab 9-10	-	8	4	Assist Prof Dr. Santi Watanayon
Final Examination					
Total		-	48	20	

11. Teaching Method (s)

Experimental practices.

12. Teaching Media

Experimental equipments.

13. Measurement and Evaluation of Student Achievement

Student achievement is measured and evaluated by

13.1 the ability to carry out the experiments to solve problems in modern Physics, atomic and nuclear physics.

Student's achievement will be graded according to the college and university standard using the symbols: A, B+, B, C+, C, D+, D and F.

Ratio of mark

Mid-term examination 40%

Final examination 40%

Attendance and report 20%

Total 100%

14. Course Evaluation

14.1 Evaluate as indicated in number 13 above.

14.2 Evaluate student's satisfaction towards teaching and learning of the course using a questionnaire.

15. References:

Cutnell JD, Johnson KW. Physic, laboratory manual. U.S.A.: Wiley; 2004.

16. Instructors:

Assistant Professor Dr. Santi Watanayon

17. Course Coordinator:

Assistant Professor Dr. Santi Watanayon

