年間授業計画/Tokyo Metropolitan Kokusai High School Course Syllabus 都立国際高校

科目基礎情報/Course information 令和5年度/2023年度 開講年度/Academic year 開講学科/Department 国際学科国際バカロレアコース/IBDP(International Baccalaureate Diploma Programme) 教科/Subject Science 科目/Course Title Physics Standard Level (SL) 3 (IBDP 2nd Year) 学年・クラス/Year・Class 単位数/credits 3 科目概要情報/Course description Physics is the most fundamental of the experimental sciences as it seeks to explain the universe itself, from the very smallest particles to the vast distances between galaxies. Despite the exciting and extraordinary development of ideas throughout the history of physics, observations remain essential to the very core of the subject. Models are developed to try to understand observations, and these themselves can become theories that attempt to explain the observations. By studying physics students 講座概要/Course description should become aware of how scientists work and communicate with each other. While the scientific method may take on a wide variety of forms, it is the emphasis on a practical approach through experimental work that characterizes the subject. Teachers provide students with opportunities to develop manipulative skills, design investigations, collect data, analyse results and evaluate and communicate their findings. Through the overarching theme of the nature of science, the aims of the DP physics course are to enable students to: * appreciate scientific study and creativity within a global context through stimulating and challenging opportunities * acquire a body of knowledge, methods and techniques that characterize science and technology * apply and use a body of knowledge, methods and techniques that characterize science and technology * develop an ability to analyse, evaluate and synthesize scientific information 到達目標/Course objectives * develop a critical awareness of the need for, and the value of, effective collaboration and communication during scientific activities * develop experimental and investigative scientific skills including the use of current technologies * become critically aware, as global citizens, of the ethical implications of using science and technology Students will be evaluated as follows: Paper 1: 40 multiple-choice questions, duration 1 hour, weighing 20%, marks 40 Paper 2: Short-answer and extended-response questions on core and AHL, duration 2 hours and 15 minutes, weighing 36%, 評価方法と評価基準/ marks 95 Evaluation method and criteria Paper 3: Questions on core and HL option material, duration 1 hour and 15 minutes, weighing 20%, marks 24 Internal assessment: Duration 10 hours, weighing 20%, 24 marks 教科書/Textbooks Physics (2014 Edition) by David Homer and Michael Bowen-Jones 校外学習/Field trip 授業計画/Course schedule 評価の方法・基準/ 予定時数。 指導項目/Topic 指導内容/Contents Evaluation method and Alotted criteria hours Internal Assessment Internal Assessment Paper 3 type data-based 11 4 questions, practical work 月 |学期/1st semester 5 Internal Assessment Internal Assessment Paper 1 and Paper 2 types 11 月 of questions, practical work 6 月 Paper 1 and Paper 2 types 10 Revision Revision of questions, practical work Paper 1 and Paper 2 types 7 Revision Revision 11 月 of questions, practical work Paper 1 and Paper 2 types Revision Revision 11 9 月 of questions, practical work

semester

2学期/2nd

/3rd semester 月

3学期/

10 月

11

月

12 月

1

2 月

3 月

Revision

Final Examination

Reflection of the entire program

Revision

Reflection

Reflection

Reflection

Reflection

Final Examination

総授業時数/Total hours

Paper 1 and Paper 2 types

of questions, practical work

Paper 1 and Paper 2 types

of questions, practical work

Class activity. Homework

Class activity, Homework

Class activity, Homework

Class activity, Homework

10

10

10

10

10

10