		都立国際高	「核 年間授業計画/Tokyo Metropolitan Kokusai High School Cours	se Syllabus		
			科目基礎情報/Course information			
開講年度/Academic year			令和4年度/2022年度			
開講学科/Department			国際学科国際パカロレアコース/IBDP(International Baccalaureate Diploma Programme)			
教科/Subject			Mathematics Analysis and Approaches Higher Level (DP2)			
科目/Course Title			Mathematics Analysis and Approaches Higher Level (DP2)			
学年・クラス/Year・Class			DP2			
単位数/credits			6			
科目報要情報/Course description						
講座概要/Course description		講座概要/Course description	This course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. This course includes topithat are both traditionally part of a pre-university mathematics course (for example, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture and proof, for instance the study of sequences and series and proof by induction.			
到達目標/Course objectives		到達目標/Course objectives	Enjoy mathematics and develop an appreciacion of the elegance and power of mathematics. Develop un understanding of the principles and natures of mathematics, develop logical, critical and creative thinking. Employ and refine powers of abstraction and generalization.			
評価方法と評価基準/ Evaluation method and criteria			1. Knowledge and Understanding 2. Problem solving 3. Communication and Interptretation 4. Technology 5. Reasoning 6. In	iquiery Approaches		
教科書╱Textbooks		教科書/Textbooks	Mathematics: Analysis and Approaches, Higher Level, Pearson Education			
校外学習/Field trip		校外学習/Field trip				
			授業計画/Course schedule			
		指導項目/Topic	指導内容/Contents	評価の方法・基準/Evaluation method and criteria	予定時数/ Alotted hours	
	4月	Probability Distributions	Students will learn about discrete and continuous random variables and their distributions and density functions, respectively. Students will perform linear transformations and learn about the normal and binomial distributions.	Homework, Quizzes, Take-Home Assignments, Examinations	;	
	5月	Integral Calculus II (Differential equations)	Students will learn about first order differential equations, finding numerical solutions of differential equation using Euler's method, solving variables separable differential equations and solving homogenous differential equations.			
1学期/1st semester	ЭЯ	Integral Calculus II (Differential Eqations II)	Students will learn how to solve linear differential equations, as well as learn about Maclaurin series, including how it is developed from differential equations, its connection to calculus in general, and related expansions.		:	
1/1st se		Practicing Paper 3	Students will practice solving Paper 3 questions			
14海	6 月	Review for Mock Exams	Students will practice solving past papers and prepare for Mock Exams, including topical review.	-		
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	7月					
4		Review for Final Exams	Students will work in groups and individually work on past papers to prepare for the final examinations.			
	9月		2.2.2			
ter	10	Review for Final Exams	†			
semester	月					
	11			1		
2学期/2s1	11 月					
7	12			1	<b>—</b>	
	月					
ester	1月					
3 学期/3rd semester	2 月					
華	3 月			1		