Course	Exercise Physiology			Teacher	Hiroyuki Imamura		
Type of course	Lecture	Credits	2credits	Semester • Period	1st · 2nd year / Spring	Compulsory • Elective	Elective

Aim of Course

Exercise physiology is an evaluation of the acute responses and longer-term adaptations of the body to the stress of physical exercise. The aim of this course is to understand and discuss application of research methods in the field of exercise physiology to athletic performance, sports nutrition, and health and diseases.

	Attainment target of Course	Evaluation tool • method	Ratio of Evaluation		
Interest • Motivation • Attitude	To be able to demonstrate achievements of study by giving a presentation	presentation	25%		
Consideration • Judgement	To be able to present a review of literature.	presentation	25%		
Skill • Expression					
Knowledge • Understanding	To be able to write short review paper.	Final written review paper	50%		
Attendance					
Total Score					

Evaluation criteria and supplementary explanation of evaluation means or methods

• Evaluation: presentation of a review of literature (50%) and final written review paper (50%).

Overview of course

This course requires a review of literature, proposal of a research question, collection and analysis of data. The final written short review paper will be required.

Textbook · Reference book

教科書: related original papers.

参考書: Brooks GA, Fahey TD, and White TP: Exercise Physiology: Human Bioenergetics and Its Applications Mayfield Publishing Co.

Out of class learning and expectations for students

This course is conducted in English, students are expected to have some knowledge of exercise physiology, sports nutrition, and health sciences.

#	Торіс	Details	Preparation • Review	
1			Review the syllabus	
1	Introduction	Introduction of this course	Read Statistics (1)	
2 Statis			Review the Statistics (1)	
	Statistics (1)	Statistical analysis in athletic performance	Read Statistics (2)	
3	Statistics (2)		Review the Statistics (2)	
		Statistical analysis in sports nutrition	Read Statistics (3)	
4	Statistics (3)		Review the Statistics (3)	
		Statistical analysis in health science	Read Athletics (1)	
5	A.1.1		Review the Athletics (1)	
	Athletics (1)	Principles of skeletal muscle adaptations	Read Athletics (2)	
6	Athletics (2)	Description and salitation	Review the Athletics (2)	
		Energetics and athletics	Read Athletics (3)	
7	Athletics (3)	Motor units recruitment	Review the Athletics (3)	
		Motor units recruitment	Read Sports Nutrition (1)	
8	Sports Nutrition (1)	Nutrition and athletic performance	Review the Sports Nutrition (1)	
		Nutrition and athretic performance	Read Sports Nutrition (2)	
9	Sports Nutrition (2)	Muscle glycogen and carbohydrate loading	Review the Sports Nutrition (2)	
		muscre grycogen and carbonydrate loading	Read Sports Nutrition (3)	
10	Sports Nutrition (3)	Blood lipids and lipoproteins in sports players	Review the Sports Nutrition (3)	
10		brood ripids and ripoproteins in sports prayers	Read Exercise and Health	
11	Exercise and Health	Exercise and Health Development	Review the Exercise and Health	
	Exercise and nearth	Exercise and hearth beveropment	Read Exercise and Lipids	
12	Exercise and Lipids	Exercise and hyperlipidemia	Review the Exercise and lipids	
12	Exercise and Elpius	Exercise and hyperiffication	Read Exercise and Obesity	
13	Exercise and Obesity	Exercise and obesity and body composition	Review the Exercise and Obesity	
		Entroise and observy and body composition	Read Exercise and Diabetes	
14	Exercise and Diabetes		Review the Exercise and	
		Exercise and diabetes	Diabetes	
			Read Exercise and asthma	
15	Exercise and asthma	Exercise and exercise-induced asthma	Review the Exercise and asthma	
16	Conclusion	General discussion	Submit the short review paper	