Subject	Aquatic Plant Ecology (水圈植物生態学)	Day/Period	1^{st} quarter Tue./ $1^{st} \sim 2^{nd}$	Object	AMB/JYPE
Instructor	M. Aoki (Professor)	Categories	Specialized Subjects	Preferable Participants	2nd-year & JYPE students
			Credits	2	
Position	Faculty of Agriculture (Graduate School of Agricultural Science)			Semester	5
Subject Numbering	ABS-APS343E			Language Used in Course	English
1. Class st The eco	ubject logy of giant kelp forests				·
This coursone cha & Foster 3. Keywo	rds	ook 'The bio	logy and ecolog	gy of giant kel	p forests' by Schiel
Kelp for Global w	est, Sea urchin, Barren, Grazing, Population varming	dynamics, Pr	oduction, Rock	y subtidal eco	system, Phase shift
4. Goal of The goal giant kelj	is to understand the structure and function o	f marine kelp	communities th	nrough the stu	dy of the ecology of
 (3) The (4) The (5) Disj (6) Disj (7) Disj (8) Sess (9) Gra (10) Gr (11) Gr (12) Pro (13) Pro (14) Pro (15) Se 6. Prepara 	abiotic environment-1: Substratum and sedi abiotic environment-2: Temperature, light a abiotic environment-3: Water motion persal and connectivity of populations-1: De- persal and connectivity of populations-2: Rep persal and connectivity of populations-3: Spe- sion review-1 zing in kelp communities-1: Kelp-sea urchin razing in kelp communities-2: Reversion of b azing in kelp communities-3: Other grazers i edation and trophic cascades-1: Fish predation edation and trophic cascades-2: Lobster pred edation and trophic cascades-3: Sea otter pre- sion review-2 tion	nd nutrient mography and productive out one dispersal a interactions parrens to kelp in giant kelp of on on grazers lation on graz	tput and source and recruitment habitat communities ers	of propagule	s
7. Record	and evaluation method nd attendance				
8. Textboo Reference Schiel D 9. Self stu	ok and references ee texts: R and Foster MS (2015) The biology and ec	ology of gian	t kelp forests. U	University of C	California Press
10. Practica					
	hone number: 022-757-4152				
Mail add	lress: masakazu.aoki.e6@tohoku.ac.jp				