		[Title]		[Instructor	·]
	Ad	vanced Thermal Engineering		'akeda / Koj umpei Funa	i Toriyama / atani
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]
GTM501	2	Mechanical Engineering	1st Semester	Tue.∕ III ∙ IV	Japanese
The purposition of the purpositi		cture is also to understand transport, storage eent energy situation. In addition, it is to und ystem.			
The model Generation The energy the future [Requirement	and thermal ing and ther n, conversion y situation n can be considents]	design of the heat transfer apparatus and the mal design of the heat transfer problem can be , and utilization of the thermal energy can be ot only of Japan, but also oversees countries dered.	considered. understood. can be understood		
[Textbooks	xamination	: 100% Series Heat Transfer, Maruzen, ISBN:978-488	38981200 (in Japa	unese)	
[Reference: JSME, JSM	-	ok : Heat Transfer 5th Edition, Maruzen, ISBN	:978-4-88898-184	-2 (in Japar	nese)
3 Foundati 4 Cooling t 5 Heat pipe 6 Dimensio 7 Modeling 8 Modeling 9 Energy a 10 Heat tra 11 Evaluat 12 Convers 13 Measur 14 Flow vis	on of the He on and desig echnology of e / Peltier ele onless number g of the heat nd environm ansport by th ion of therm sion system of	gn of heat exchangers apparatus / Insulation technology ement er / dimensional analysis transfer problem (temperature and radiation a transfer problem (heat exchanger, etc.) nental situation in Japan and oversees countrie nermal conduction, forced convection, natural o al efficiency of thermal energy iques of heat transport phenomenon echniques	es		ation

		[Title]		[Instructor]
	Advance	d Mechanical Dynamics and Control	Atsushi Fujimori / Yoshiyuki No		
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]
GTM502	2	Mechanical Engineering	1st Semester	Thu.∕I	Japanese
mechanical considerati [Objectives 1. To impro 2. To analy 3. To under 4. To learn [Requireme ``Mechanic	and efficier system. T on of the ap l ve the mode sis dynamic stand the c robust cont ents] al Dynamic h] : 80% questions in	nt motion of machines and robots, it is required to 'he analytical method of mechanical dynamics plication to real systems are given in this lecture. eling skill to dynamical properties in mechanical sy- al systems oncept of robust control rol design techniques such as H infinity control an s", ``Vibration Engineering'' and ``Control Enginee a this lecture : 20%	and the desi ystems. d µ analysis/d	gn of contr esign	rol system in
Atsushi Fu [References	-	<i>ust Control</i> , Corona Publishing, Tokyo, 2001, ISBN	÷ 4-339-03180	-1 (in Japan	ese).
Shigeru K 978482771 N. Macia, O USA, 2005 K. Kogoh 4-407-0220 [Schedule] 1. Represen 2. Rotating 3. Kinemat 4. Dynamic 5. Euler's e 6. Dynamic	urosu, Kou 2797 (in Jap George J. T. and T. Mi <u>5-1 (in Japa</u> ntation of dy system of c ics of rigid be quation of r is of spinnir e Equation es of robot a tion to robu natical preli- sinties stability an ity control matrix ineq	haler: Modeling and Control of Dynamic Systems, ta: Introduction to System Control Theory, Jil mese). ynamical systems body body notion ng-top of Motion rm st control iminaries alysis uality	Thomson Del	mar Learnii	ng, New York,

		[Title]		[Instructor]				
		Advanced Fluid Mechanics		oyuki Tsuno ninobu Yama				
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]			
$\operatorname{GTM503}$	2	Mechanical Engineering	1st Semester	Mon. ⁄ II	Japanese			
[Outline an	d purpose]							
point. Stud of the know equations of Reynolds-n Furthermon	Fluid mechanics tackles the problems of the fluid flow theoretically by assuming the flow as a motion of fluid point. Students are advised to learn the way to handle the flow analytically and theoretically by making full use of the knowledge of fluid mechanics. Starting from the Navier-Stokes equations which are the fundamental equations of fluid motion, first of all, exact solutions of the equations are derived in cases of low and high Reynolds-number limits and then ideas of the boundary layer and the laminar/turbulent flow are described. Furthermore, the fundamental statistical theory, similarity law, and transport properties of turbulence are introduced to understand the turbulence modelling.							
[Objectives]								
term 2. to unde 3. to be ab	rstand the le to explai	derivation of the Navier-Stokes equations and to idea of the boundary layer and to apply this idea to in the basics of statistical theory, similarity law and a decision of the most suitable turbulence model a	high Re-num l transport pro	ber flow aro operties of tu	und a body arbulence			
[Requireme	ents]							
		l to have a good understanding on mathematics (y dynamics) as well as fundamental fluid engineering		culus and ve	ector algebra)			
[Evaluation	-							
Examinatio		1						
Short tests Presentatio		works: 25%						
Class attitu								
[Textbooks]								
[References	5]							
F.M. White H. Tenneke 巽 友正, 流	, Viscous F s and J. L. 体力学(新	sten, Boundary-Layer Theory, Springer (ISBN:978- luid Flow, McGraw-Hill (ISBN:978-1259002120) Lumley, A First Course in Turbulence, The MIT Pro 物理学シリーズ), 培風館 (ISBN:978-4563024215) 乱流力学,朝倉書店 (ISBN:4254200951)		8-026220019	6)			
[Schedule]								
 Descrip Navier- Exact set Similar Propert Present The nat The Rey Statisti The dyr Turbule Turbule 	tion of fluid Stokes equi- olutions of ity law and ies of the b- ation on va- cure of turb ynolds equa- cal theories namics of tu- ent heat an- ence model;	vector and tensor notation (Tsunoda) d motion and viscous stresses (Tsunoda) ations (Tsunoda) the Navier-Stokes equations (Tsunoda) d Re-limiting solutions (Tsunoda) oundary layer flow (Tsunoda) atious problems in fluid dynamics (Tsunoda) ulence (Yamamoto) ations (Yamamoto) s of turbulence (Yamamoto) arbulence (Yamamoto) d mass transfer (Yamamoto) RANS (Yamamoto) LES (Yamamoto)						
15. Review	and summ	ary (Tsunoda / Yamamoto)						

		[Title]		[Instructor]					
	Adva	anced Strength of Materials	Yasumi Ito	o and Yoshiyu	ki Kagiyama				
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]				
GTM504	2	Mechanical Engineering	1st Semester	Mon.∕Ш	English⁄ Japanese				
[Outline an	1 1			• • • • •	1.0				
"safety and strength of mechanical	Strength of material, which is imperative for manufacturing engineering field, is important tool for ensuring "safety and reassurance" and necessary for development and design of several products. In recent years, strength of materials has been adopted in order to evaluate the material fracture and so on in the area of mechanical engineering, structural dynamics and medical engineering. The aim of this module is to deeply understand the distillate of the manufacturing research by learning the recent studies and developments.								
[Objectives]									
 To consider 3. To under 	ider the cor erstand the	deformation behavior of materials atribution of mechanical engineering on the dev dynamics characteristic of biological tissues health evaluation technique of machines and st	-	ne medical dev	ices				
[Requireme	nts]								
Statics and	•								
Basic stren Engineerin	-								
[Evaluation	.]								
Homework:									
Presentatio	n work: 509	%							
[Textbooks]									
N. A.									
[References]								
		-、本間寛臣、斎藤憲司 共著,朝倉書店,ISBN:4							
		JALYSIS, R. H. Wagoner, Cambridge, 0 ⁻ 521 ⁻ 642 イラスト医工学 ーバイオメカニクスから		学曲本まで」	アドフリー				
	^{姓田} 晋之, 4-904419-6		公原1成品。11	于改直よく	, , , , , , , ,				
[Schedule]									
1. Introdu									
	-	nite element method							
-		element method / Truss element element method / Truss element							
-		ge of finite element method							
6. Practica	al knowledg	ge of finite element method							
		ement method							
		ement method Strength of materials							
10. Bone ar									
11. Applica	tion to the	safety evaluation of biomechanics							
12. Non-des		-							
		vestigating method of machines and structures ent examples							
14. Discuss 15. General		ent examples							

		[Title]		[Instructor]
	А	dvanced Material Processing		utake Harar Yoshiaki Uki	
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]
GTM505	2	Mechanical Engineering	2nd Semester	Wed./I	Japanese
[Outline an	d purpose]		1		1
The suitable function. In products. 7	le structur n addition, The aim of plastic defe	e and strength design are important to produ the material processing is also the important this lecture is to deeply understand the main processing, and melt processing.	process for ma	nufacture o	of engineering
1 To under engineering 2 To unders 3 To unders	rstand the g products. stand the m stand the m	characteristic and classification of the process techanism and characteristic of the removal proce techanism and characteristic of the casting and pl techanism and characteristic of the welding proce	ssing. astic deformati		C C
[Requireme Fundamen level.		ge of material mechanics, plastic deformation an	d industrial m	aterials of u	ndergraduate
[Evaluation	n]				
Periodic ex	-	50%			
Homework	and report	50%			
[Textbooks]					
[References	5]				
		杉材技術、素形材センター素形材技術解説書制作委員	員会編、日刊工	業新聞社	
		ロ田・塚本、コロナ社			
· · · <u> </u>		系治・室田忠雄、養賢堂 ====※/= # ==============================			
		〒田総仁、共立出版 型山繁樹・宇根篤暢・由井明紀・鈴木浩文、コロナネ	·+-		
	ナッノ巫啶、り	きロ 金帽 ・ 十世島物 ・ ロ 井明 応 ・ 病 小 信 乂 、 ユ 旦 丿 1	Т.		
[Schedule]	ion				
[Schedule] 1 Introduct					
[Schedule] 1 Introduct 2 Removal	processing	1(Cutting mechanism) 2(Cutting tool and surface finishing)			
[Schedule] 1 Introduct 2 Removal 3 Removal 4 Removal	processing processing processing	1(Cutting mechanism) 2(Cutting tool and surface finishing) 3(Grinding mechanism)			
[Schedule] 1 Introduct 2 Removal 3 Removal 4 Removal 5 Removal	processing processing processing processing	1(Cutting mechanism) 2(Cutting tool and surface finishing) 3(Grinding mechanism) 4(Abrasives and grinding process)			
[Schedule] 1 Introduct 2 Removal 3 Removal 4 Removal 5 Removal 6 Removal	processing processing processing processing processing	1(Cutting mechanism) 2(Cutting tool and surface finishing) 3(Grinding mechanism) 4(Abrasives and grinding process) 5(The latest removal processing)			
[Schedule] 1 Introduct 2 Removal 3 Removal 4 Removal 5 Removal 6 Removal 7 Casting p	processing processing processing processing processing 1	1(Cutting mechanism) 2(Cutting tool and surface finishing) 3(Grinding mechanism) 4(Abrasives and grinding process) 5(The latest removal processing) (Casting mechanism)			
[Schedule] 1 Introduct 2 Removal 3 Removal 4 Removal 5 Removal 6 Removal 7 Casting p	processing processing processing processing processing 1 processing 2	1(Cutting mechanism) 2(Cutting tool and surface finishing) 3(Grinding mechanism) 4(Abrasives and grinding process) 5(The latest removal processing)			
[Schedule] 1 Introduct 2 Removal 3 Removal 4 Removal 5 Removal 6 Removal 7 Casting p 8 Casting p 9 Forging p 10 Plastic of	processing processing processing processing processing 1 processing 2 processing deformation	1(Cutting mechanism) 2(Cutting tool and surface finishing) 3(Grinding mechanism) 4(Abrasives and grinding process) 5(The latest removal processing) (Casting mechanism) (Material of casting)			
[Schedule] 1 Introduct 2 Removal 3 Removal 4 Removal 5 Removal 6 Removal 7 Casting p 8 Casting p 9 Forging p 10 Plastic o 11 Plastic o	processing processing processing processing processing 1 processing 2 processing leformation	1(Cutting mechanism) 2(Cutting tool and surface finishing) 3(Grinding mechanism) 4(Abrasives and grinding process) 5(The latest removal processing) (Casting mechanism) (Material of casting) a processing 1(Rolling) processing 2(Press working)			
[Schedule] 1 Introduct 2 Removal 3 Removal 4 Removal 5 Removal 6 Removal 7 Casting p 8 Casting p 9 Forging p 10 Plastic of 11 Plastic of 12 Arc web	processing processing processing processing 1 processing 2 processing deformation leformation ling and ga	1(Cutting mechanism) 2(Cutting tool and surface finishing) 3(Grinding mechanism) 4(Abrasives and grinding process) 5(The latest removal processing) (Casting mechanism) (Material of casting) • processing 1(Rolling) • processing 2(Press working) s welding			
[Schedule] 1 Introduct 2 Removal 3 Removal 4 Removal 5 Removal 6 Removal 7 Casting p 8 Casting p 9 Forging p 10 Plastic o 11 Plastic o 12 Arc welo 13 Welding	processing processing processing processing 1 processing 2 processing deformation leformation ling and ga	1(Cutting mechanism) 2(Cutting tool and surface finishing) 3(Grinding mechanism) 4(Abrasives and grinding process) 5(The latest removal processing) (Casting mechanism) (Material of casting) • processing 1(Rolling) processing 2(Press working) s welding and mechanism			
[Schedule] 1 Introduct 2 Removal 3 Removal 4 Removal 5 Removal 6 Removal 7 Casting p 8 Casting p 9 Forging p 10 Plastic o 11 Plastic o 12 Arc welo 13 Welding 14 The late	processing processing processing processing 1 processing 2 processing leformation leformation ling and ga properties est melt pro	1(Cutting mechanism) 2(Cutting tool and surface finishing) 3(Grinding mechanism) 4(Abrasives and grinding process) 5(The latest removal processing) (Casting mechanism) (Material of casting) • processing 1(Rolling) processing 2(Press working) s welding and mechanism			

		[Title]		[Instructor]
	Advanced	l Mechanical Materials Engineering	Yoshihiro Nakayama		
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]
GTM506	2	Mechanical Engineering	2nd Semester	Mon.∕I	Japanese
manufactur required to make an or [Objectives] 1. To under 2. To under 3. To under 4. To under [Requireme	f this lector ring and ap perform a al presenta l stand the for stand the for stand the for stand the for stand the for stand the for stand the for stand the for stand the for stand the for stand the for stand the for stand th	0%	carried out w	ith a semin. In the lect	ar form. It is
[Textbooks] [References 1ものづくり	3]	が材技術、素形材センター素形材技術解説書制作委員	会編、日刊工業	業新聞社	
[Schedule] 1. Introduc 2. Mechanic 3. Microstr 4. Evaluati 5. Fundame 6. Fundame 7. Fundame 9. Fundame 10. Fundame 11. Fundame 12. Fundame 13. Recycle 14. Novel method 14. Novel method 15. Schedule 14. Sovel method 15. Schedule 16. Schedule 17. Sche	tion cal properti ucture of m on and anal entals of str entals of str entals of str entals of an entals of m nentals of to nentals of b of metallic netallic mat	歳、森永正彦・吉原忠・戸田裕之、共立出版 es of metallic materials etallic materials lysis technics of metallic materials rengthening of metallic materials eel and cast iron ainless steels uminum alloys agnesium alloys itanium alloys iomaterials materials erials (shape memory alloy, hydrogen storage alloy and periodic examination	y, porous alloy)		

		[Title]		[Instructor]
	Advance	ed Mechanical Systems Engineering	Shigenobu Okazawa / Junichiro Aoyagi		
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]
GTM507	2	Mechanical Engineering	2nd Semester	Thu.∕II	Japanese/ English
[Outline ar	nd purpose]				
as mechan mechanical basic and c	nics, therm l systems, a omprehensi	re integrated systems which is composed by all m odynamics, fluid dynamics, and material dyn bout space engineering and automotive engineering we engineering design concepts in order to design	amics. This ng. Therefore y	lecture lea you will und	rns practical
[Objectives					
* To unders	stand a com	ponents of a spacecraft and its design concept ponents of a automobile and its design concept erstand comprehensive system engineering design	techniques		
[Requireme	ents]				
0		echanical engineering such as mechanics, thermo nathematics and English	dynamics, flui	d dynamics	and material
[Evaluation	n]				
Report and	presentatio	on about space engineering 50%			
Report abo	ut automoti	ve engineering 50%			
[Textbooks]	1				
		Elements of Spacecraft Design, AIAA, ISBN:15634	75243		
[References	s]				
		・ム概論, 培風館, ISBN:456303505X (in Japanese)			
2. 久田俊明	,非線形有關	艮要素法のためのテンソル解析の基礎, 丸善, ISB№ 462	21045814 (in Ja _l	panese)	
[Schedule]					
		vironment, and Space mission			
		t components and its development			
	i) Orbital M i) Principle	of Rocket Propulsion			
	i) Structure	-			
	i) Thermal (
• •	•	stem and Attitude Control			
		pment and manufacturing of automobile and environment of automobile			
		based design of automobile			
11. (Okaza	wa) Techno	logy in performance evaluation of automobile 1			
		logy in performance evaluation of automobile 2			
		ural analysis of automobile safety of automobile			
		wa) Conclusion			
. 0					

		[Title]		[Instructor]				
	Semir	ar in Mechanical Engineering IA	all academic supervisors					
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]			
GTM603	1	Mechanical Engineering	1st Semester		English/ Japanese			
[Outline and purpose]								
		semester as Research Work in Mechanical System	Engineering	[A. This is ε	lecture-style			
class by the	e graduate	advisor directing your research work. In order to	acquire extens					
assignment	ts is not neo	essarily directly related to the details of your resea	arch work.					
[Objectives]								
To gain the	results by	an investigation, a design, consideration, the exper	riment.					
[Requireme	ents]							
Fundament	tal knowled	ge of mechanical engineering of undergraduate lev	el.					
[Evaluation	n]							
Comprehen	sive evalua	tion from progress of the problem solution, reports	and an answe	er to a quest	ion : 100%			
[Textbooks]								
[References	5]							
Depending	on the case							
[Schedule]								
	a hu on ina	tructor on the specific assignments.						
		e-graduate advisor besides the chief-advisor, and	can ask for a	dvice about	presentation			
		esearch work.			F			

		[Title]		[Instructor]				
	Semir	nar in Mechanical Engineering IB	all academic supervisors						
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]				
GTM604	1	Mechanical Engineering	2nd Semester		English/ Japanese				
[Outline an	d purpose]		I						
class by the	Register at the same semester as Research Work in Mechanical System Engineering IB. This is a lecture-style class by the graduate advisor directing your research work. In order to acquire extensive technical knowledge,								
[Objectives]		cessarily directly related to the details of your resea	arcii work.						
		an investigation, a design, consideration, the exper	iment.						
0	J								
[Requireme	ents]								
Fundament	tal knowled	lge of mechanical engineering of undergraduate lev	el.						
[Evaluation									
		ation from progress of the problem solution, reports	and an answe	er to a quest	tion : 100%				
I I I				1					
[m .1 1]	1								
[Textbooks]									
[D_C	1								
[References Depending	-	<u> </u>							
Depending	on the case	·.							
[Schedule]									
	s by an ins	tructor on the specific assignments.							
Student ch	ooses a vi	ce-graduate advisor besides the chief-advisor, an	d can ask fo	r advice ab	out extensive				
technical k	nowledge a	round the research work.							

		[Title]		[Instructor	·]
	Semina	ar in Mechanical Engineering IIA	all academic supervisors		
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]
GTM605	1	Mechanical Engineering	1st Semester		English⁄ Japanese
[Outline ar	d purpose]				•
		emester as Research Work in Mechanical System dvisor directing your research work.	Engineering I	IA. This is a	a lecture-style
[Objectives]				
To gain the	results by a	in investigation, a design, consideration, the exper	iment.		
[Requireme	ontel				
-		ge of mechanical engineering of undergraduate lev	el.		
[Evaluation	n]				
Compreher	nsive evalua	tion from progress of the problem solution, reports	and an answe	er to a ques	tion : 100%
[Textbooks]					
[References	5]				
Depending	on the case.				
[Schedule]					
Student ch	ooses a vice	ructor on the specific assignments. • graduate advisor besides the chief-advisor, and esearch work.	can ask for a	dvice about	t presentation

		[Title]		[Instructor	·]
	Semina	ar in Mechanical Engineering IIB	all academic supervisors		
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]
GTM606	1	Mechanical Engineering	2nd Semester		English⁄ Japanese
[Outline ar	d purposel				
Register at	the same se	emester as Research Work in Mechanical System dvisor directing your research work.	Engineering I	IB. This is a	a lecture-style
[Objectives]				
To gain the	results by a	in investigation, a design, consideration, the exper	iment.		
[Requireme	entsl				
-		ge of mechanical engineering of undergraduate lev	el.		
[Evaluation	n]				
Compreher	nsive evalua	tion from progress of the problem solution, reports	and an answe	er to a ques	tion : 100%
[Textbooks]					
[References	3]				
	on the case.				
[Schedule]					
Student ch	looses a vic	ructor on the specific assignments. e-graduate advisor besides the chief-advisor, an ound the research work.	d can ask for	r advice ab	out extensive

		[Title]		[Instructor	·]
	Research	Work in Mechanical Engineering IA	all aca	ademic supe	ervisors
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]
GTM607	2	Mechanical Engineering	1st Semester		English⁄ Japanese
research un research so subject is p [Objectives] Comprehen problem so	se of this mader the tu chedule and romoted wi sion of soci lving is acc	research work is to gain fundamental knowledge attion of supervisor. Comprehension of background d accomplishment of research with initiative are th report and discussion. cial demand about engineering and technology a quired. Ability of accomplishing study and researc nunication on the presentation and discussion of re	l and purpose required. Co and findings h with initiati	of research mprehension of subject a ive is acqui	h, planning of on of research and ability of red. Ability of
[Requireme				scultivated	
_		lge of mechanical engineering of undergraduate lev	el.		
[Evaluatior	-				
Others (Eva	aluate the a	appropriateness of answer to questions): 100%			
[m (1 1]					
[Textbooks]					
[References	-				
Instruct if 1	required				
[Schedule]					
Accomplish	the selecte	ed subject of research under the tuition of superviso	or.		

		[Title]		[Instructor	·]	
Research Work in Mechanical Engineering IB			all academic supervisors			
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]	
GTM608	2	Mechanical Engineering	2nd Semester		English⁄ Japanese	
research un research so subject is p [Objectives] Comprehen problem so	se of this inder the tuchedule and romoted will be an another tuchedule and romotedule and romot	research work is to gain fundamental knowledge attion of supervisor. Comprehension of background d accomplishment of research with initiative are th report and discussion. cial demand about engineering and technology a quired. Ability of accomplishing study and researc munication on the presentation and discussion of re-	l and purpose required. Co and findings h with initiat:	of research mprehension of subject a ive is acqui	h, planning of on of research and ability of red. Ability of	
[Requireme				5 cultivated	•	
		lge of mechanical engineering of undergraduate lev	el.			
[Evaluatior	-					
Others (Ev	aluate the a	appropriateness of answer to questions): 100%				
[Textbooks]						
[lextbooks]						
[References	-					
Instruct if	required					
[Schedule]						
Accomplish	the selecte	ed subject of research under the tuition of superviso	or.			

[Title]			[Instructor]			
Research Work in Mechanical Engineering IIA			all academic supervisors			
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]	
GTM609	1	Mechanical Engineering	1st Semester		English/ Japanese	
research u discussion. [Objectives] Comprehen problem so	se of this r nder the tr l sion of soc lving is acq	esearch work is to gain fundamental knowledge uition of supervisor. Comprehension of research cial demand about engineering and technology a uired. Ability of accomplishing study and research nunication on the presentation and discussion of re	subject is pr and findings h with initiat	of subject a	and ability of red. Ability of	
[Requireme Fundament		ge of mechanical engineering of undergraduate lev	rel.			
[Textbooks] [References Instruct if t	3]					
[Schedule] Accomplish	the selecte	d subject of research under the tuition of supervise	or.			

[Title]			[Instructor]			
Research Work in Mechanical Engineering IIB			all academic supervisors			
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]	
GTM610	2	Mechanical Engineering	2nd Semester		English/ Japanese	
research u discussion. [Objectives] Comprehen problem so	se of this r nder the tr] asion of soc lving is acq	esearch work is to gain fundamental knowledge uition of supervisor. Comprehension of research tial demand about engineering and technology a uired. Ability of accomplishing study and research nunication on the presentation and discussion of re	subject is pr and findings h with initiat	of subject a	and ability of red. Ability of	
[Requireme Fundament [Evaluation	ents] tal knowled	ge of mechanical engineering of undergraduate lev				
[Textbooks] [References Instruct if r	3]					
[Schedule] Accomplish	the selecte	d subject of research under the tuition of superviso	or.			

[Title]			[Instructor]			
Special Lecture in Mechanical Engineering			Part-time lecturer			
[Code]	[Credits]	[Program]	[Semester]	[Hours]	[Language of instruction]	
GTM601	1	Mechanical Engineering	Intensive	/	Japanese	
	er of the co	mpany or the researcher of the public institution g techniques are lectured.	is invited as	a lecturer a	and the latest	
[Objectives Through th		n, students learn the significance and the value of	the master's	thesis them	e of own.	
[Requireme	ents]					
	sively. 100%	evel of the lecture contents and the content	is of the rep	ports will	be evaluated	
[References It is ordere		tely by a lecturer.				
[Schedule] Trend of th	e latest tech	nology development in the mechanical engineering	g.			