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The students take fo program selection w want to acquire.  Course Objectives: 1. To understand th science. 2. To clarify the desi  Rubric	hen advancing  e basic skills (i  red program w  Excellen  The stud and can the basi	in Mathematic when advancir  t dent recognize clearly explait ic skills (in	Good  The student and can ex	Technology, Pgrade.  t recognizes plain the	Programm	own learning) nece	ing objec	ctives and the skills the
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Achievement 1	and can the basi	clearly explai ic skills (in	in and can ex	plain the	The stu	idont can		
	technolo program for stud	and can clearly explain the basic skills (in mathematics, measurement technology, programming) necessary mand can explain the basic skills (mathematic measurement technology, programming) necessary		ent ng) necessary g engineering	The student can recognize the basic skills (in mathematics, measurement technology, programming) necessary for studying engineering and science.		ecessary	The student falls show acceptable.
Achievement 2	determi explaine program	dent has clear ned and ed desired n when advan econd grade.	t has and can ired program ncing to the de.	The student determined desired program when advancing to the second grade.		when	The student falls show	
Assigned Depart	ment Objec	tives						
3								
Teaching Method								
Outline	General or Specialized: Specialized • Experimental Practice Field of learning: Experimental Practice, etc. Required, Elective, etc.: Required subjects Foundational academic disciplines: Mathematical Science / (Physics, Mathematics), Biology / Basic biology, Chemistry / (Inorganic, Organic chemistry), Informatics / Computational infrastructure / Programming, Engineering / (Electrical and Electronic Engineering, Mechanical engineering) Relationship with Educational Objectives: This class is equivalent to "(3) Acquire deep foundation knowledge of the major subject area", "(6)Develop problem solving abilities".  Relationship with JABEE programs: The main goal of learning / education in this class is "(A)".  Course outline: Students take experimental practice over 4 courses on a quarterly basis.							

Teaching Method						
Outline	General or Specialized: Specialized • Experimental Practice Field of learning: Experimental Practice, etc. Required, Elective, etc.: Required subjects Foundational academic disciplines: Mathematical Science / (Physics, Mathematics), Biology / Basic biology, Chemistry / (Inorganic, Organic chemistry), Informatics / Computational infrastructure / Programming, Engineering / (Electrical and Electronic Engineering, Mechanical engineering) Relationship with Educational Objectives: This class is equivalent to "(3) Acquire deep foundation knowledge of the major subject area", "(6) Develop problem solving abilities".					
	Relationship with JABEE programs : The main goal of learning / education in this class is "(A)".					
	Course outline : Students take experimental practice over 4 courses on a quarterly basis.					
Style	Course method: Instructor will give guidance on first day about how to proceed with the class, including groups and plases.etc.					
	Grade evaluation methods: The average of the exam scores is 100% of grade.					
	Precautions on enrollment: Students must take this class (no more than one-third of the required number of class hours missed) and earn the credit in order to complete the 1st-year course.					
Notice	Course advice: Students take 3 classes. Depending on the program, the inside may be further divided into 2 to 4 groups. Follow the instructions of the person in charge about the place of implementation. In charge of 7 weeks for each program. Overall guidance will be given at the beginning of the year.					
Notice	Foundational subjects : Science and Mathematics up to junior high school					
	Related subjects: Experiments in Science (2nd year AC), Mechanical System Engineering Experiments and Practice I (2nd), Electric and Electronic System Engineering Experiments and Practice I (2nd), Information System Engineering Experiments and Practice I (2nd)					
	Attendance advice: Be sure to understand the program explanation of each teacher.					

		nce advice : to understand the p	program explanation of each tea	cher.	
Course I	Plan				
		Theme		Goals	

11th											
st Quarter  this Advanced Science Program : Inquiry activity  5th Advanced Science Program : Report writing and presentation and understanding the precautions for safety.  1th Mechanical Systems Program : Lathe [Basics and foundation of operation, end face / side cutting.]  1th Mechanical Systems Program : Finishing [scoring, International Systems Program : Report preparation and perform basic operations.  1th Mechanical Systems Program : Report preparation and perform basic operations.  1th Mechanical Systems Program : Report preparation and perform basic operations.  1th Mechanical Systems Program : Report preparation and perform basic operations.  1th Mechanical Systems Program : Report preparation and perform basic operations.  1th Mechanical Systems Program : Report preparation and perform basic operations.  1th (Internation System Program : Report preparation and perform basic operations.)  1th (Internation System Program : Report preparation and perform basic operations.)  1th (Internation System Program : Report preparation and personal cutting and person			1st	Advano	ced Science Progra	m : Guidance		Understand tand chemica contents.	the contents of m I biology. Select a	athematics, physics, a field from 3	
Semeste   Advanced Science Program: Inquiry activity   Conduct exploratory activities and verify results, 5th   Advanced Science Program: Inquiry activity   Conduct exploratory activities and verify results, 5th   Advanced Science Program: Report writing   Program: Advanced Science Program: Presentation   Conduct exploratory activities and create reports and presentation   Program: Advanced Science Program: Presentation   Conduct exploratory activities and create reports and presentation   Program: Advanced Science Program: Presentation   Conduct exploratory activities and create reports and presentation   Program: Advanced Science Program: Program: Conduct exploratory activities and create reports and presentation   Program: Advanced Science Program: Program: Conduct exploration			2nd	Advano	ced Science Progra	m: Theme selecti	ion	Select the th	eme of the inquir	y activity and make	
Semeste   Advanced Science Program: Inquiry activity   Conduct exploratory activities and verify results, 5th   Advanced Science Program: Inquiry activity   Conduct exploratory activities and verify results, 5th   Advanced Science Program: Report writing   Program: Advanced Science Program: Presentation   Conduct exploratory activities and create reports and presentation   Program: Advanced Science Program: Presentation   Conduct exploratory activities and create reports and presentation   Program: Advanced Science Program: Presentation   Conduct exploratory activities and create reports and presentation   Program: Advanced Science Program: Program: Conduct exploratory activities and create reports and presentation   Program: Advanced Science Program: Program: Conduct exploration			3rd	Advano	ced Science Progra	m: Inquiry activit	У	Conduct exp	loratory activities	and verify results.	
Quarter   Sth			4th	Advano	ced Science Progra	m: Inquiry activit	.y		•	•	
Numerical Science Program: Presentation   Advanced Science Program: Presentation   Advanced Science Program: Presentation   Understanding the contents of the experiment and understanding the contents of the experiment and understanding the precautions for safety.			5th	Advano	ced Science Progra		•	Conduct exp	loratory activities	and verify results.	
Semester   Sth   St semester mid-term exam   Sth   St semester mid-term exam   Understanding the contents of the experiment and understanding the precautions for safety.			6th	Advano	ced Science Progra	m : Report writing	9			nd create reports	
Semeste Frenche French			7th	Advano	ced Science Progra	m : Presentation				iry activities through	
Semeste r    Semeste   Fr   Semeste   Fr   Semester   S			8th	1st sen	nester mid-term ex	am					
Additional Systems Program: Finishing [scoring, drilling]   11th   Mechanical Systems Program: Finishing [scoring, drilling, tapping]   12th   Mechanical Systems Program: Finishing [scoring, drilling, tapping]   12th   Mechanical Systems Program: Finishing [scoring, drilling, sanding]   12th   Mechanical Systems Program: Finishing [scoring, drilling, sanding]   12th   Mechanical Systems Program: Measurement   12th   Mechanical Systems Program: Rebort amount of the basic knowledge of measurement   12th   Mechanical Systems Program: Rebort preparation   12th   Mechanical Systems Program: Report preparation   12th   Mechanical Systems Program: Report preparation   12th   Mechanical Systems Program:   12th   Mechanical Mechanical Systems Program:   12th   Mechanical Systems Progr			9th	Mechar	nical Systems Progr	am : Guidance		Understandir and understa	ng the contents o	f the experiment itions for safety.	
2nd Quarter   12th   Mechanical Systems Program : Finishing [scoring], dangerform basic operations.   12th   Mechanical Systems Program : Measurement   Understand the basic knowledge of machine tools and perform basic operations.   13th   Mechanical Systems Program : Measurement   Understand the basic knowledge of measurement   12th   Mechanical Systems Program : Robot arm   Can perform basic operations.   13th   Mechanical Systems Program : Report preparation   Submission of final report.   13th   Citeric and Electronic System Program:   Understanding of Laboratory, preparation   current and voltage.   2nd   Electric and Electronic System Program:   Understanding series and parallel circuits.   1.D.C circuit   Understanding series and parallel circuits.   1.D.C circuit   Understanding series and parallel circuits.   1.D.C circuit   Understanding shunts and multipliers.   2.Shunt / multiplier   Understanding how to use the tester.   3rd   Electric and Electronic System Program:   Understanding how to use the tester.   3rd   Electric and Electronic System Program:   Understanding how to use logic circuits and how they work.   Electric and Electronic System Program:   Understanding the quality of soldering.   Electric and Electronic System Program:   Understanding the quality of soldering.   Electric and Electronic System Program:   Understanding the quality of soldering.   Electric and Electronic System Program:   Understanding the quality of soldering.   Electric and Electronic System Program:   Understanding the contents of the experiment.   10th   Information System Program:   Completion of microcomputer kit   12th   Information System Program:   Completion of microcomputer kit   12th   Information System Program:   Completion of microcomputer kit   12th   Information System Program:   Program creation and execution result   12th   Information System Program:   Program creation and execution result   12th   Information System Program:   Program creation and execution result   12th   Information Presentation	·		10th	Mechar founda drilling	nical Systems Progr tion of operation, e ]	am : Lathe [Basics nd face / side cuttir	and ng,	Understand t perform basi	the basic knowled c operations.	lge of lathes and	
Quarter   12th			11th	Mechar drilling	nical Systems Progr , tapping]	am : Finishing [sco	ring,	Understand tand perform	the basic knowled basic operations.	lge of machine tools	
19th   (vernier caliper, micromèter)   Other stand the basic nowledge of measurement			12th	Mechar cutting	nical Systems Progr , sanding]	am : Finishing [sco	ring,	ng, Understand the basic knowled and perform basic operation			
15th			13th	Mechar (vernie	nical Systems Progr er caliper, micromet	am : Measurement er)		Understand t	the basic knowled	lge of measurement.	
16th   Mechanical Systems Program: Report preparation   Submission of final report.			14th	Mechar	nical Systems Progr	am: Robot arm		Can perform basic operations.			
Summer   S			15th	(1st se	mester final exam)						
St. Guidance   Current and Voltage.			16th	Mechar and su	nical Systems Progr bmission	am : Report prepar	ation	Submission of	of final report.		
Semeste   Ath Quarter   Competition of Multiplier   Competition   Competition of Multiplier   Competition   Comp			1st								
2.Shunt / multiplier 4th			2nd					Understandir	ng series and par	allel circuits.	
Ath Quarter    Strict   Sth			3rd	2.Shunt / multiplier				Understandir	ng shunts and mu	ıltipliers.	
Sth			4th				Understandir	ng how to use the	e tester.		
S.Making a timer			5th				Understandir they work.	ng how to use log	ic circuits and how		
Semeste   Sth			6th	5.Making a timer				Understandir	ng the quality of s	soldering.	
Semeste r    State		7		Electric and Electronic System Program: 6.Making a timer				Understandir	ng the quality of s	soldering.	
State			8th								
11th			9th	Inform	nation System Prog	ram: Guidance		Understandir	ng the contents o	f the experiment.	
11th			10th	Information System Program:				Completion of	of microcomputer	kit	
Ath Quarter   12th   Information System Program:   Confirmation   Program creation and execution result			11th	Information System Program:				environment, program creation, and report of			
13th   Information System Program:   Program creation and execution result confirmation     14th   Information System Program:   Program creation and execution result confirmation     15th   (2nd semester final exam)   Report submission(program execution result report)			12th	Information System Program:							
Thiormation System Program:   confirmation   15th   (2nd semester final exam)			13th	Inform	nation System Prog	ram:					
Report submission(program execution result report)   Report submission(program execution result report)			14th	Inform	nation System Prog	ram:					
Feport   Freport   Frepo			15th	(2nd semester final exam)							
Examination         Presentation         Mutual evaluation         Portfolio         Other         Total           Subtotal         0         10         10         70         10         100           Basic Proficiency         0         0         0         0         0         0           Specialized Proficiency         0         10         10         70         10         100           Cross Area         0         0         0         0         0         0         0			16th Information System Program:								
Examination         Presentation         Mutual evaluation         Portfolio         Other         Total           Subtotal         0         10         10         70         10         100           Basic Proficiency         0         0         0         0         0         0           Specialized Proficiency         0         10         10         70         10         100           Cross Area         0         0         0         0         0         0         0	Evaluati	on Metl	nod and \	Weiaht	t (%)						
Subtotal         0         10         10         70         10         100           Basic Proficiency         0         0         0         0         0         0           Specialized Proficiency         0         10         10         70         10         100           Cross Area         0         0         0         0         0         0         0						Mutual evaluation	Portfo	olio	Other	Total	
Basic Proficiency         0         0         0         0         0           Specialized Proficiency         0         10         10         70         10         100           Cross Area         0         0         0         0         0         0         0	Subtotal							-			
Specialized Proficiency         0         10         10         70         10         100           Cross Area         0		iciencv									
Cross Area	Specialize	d									
Proficiency   1   1   1   1   1   1   1   1   1			0		0	0	0		0	0	