

		Lecture-based Subjects			Training-based Subjects	
Freshman		Basic English I	Humanities A	Physics C	★Freshman Seminar I	Creative Work Practices A
		Basic English II	Social Science A	Basic Chemistry A	★Freshman Seminar II	Creative Work Practices B
		Basic English III	★Fundamental Mathematical Engineering	Basic Chemistry B	★Project Practice Fundamental Program	Creative Work Practices C
		Basic English IV	Fundamental Competencies for Working Persons 1	Fundamental Physics Laboratory Works	Basic Practice of ICT	Creative Work Practices D
		English Communication I	Practice of Literacy for Information Society	Fundamental Industrial Materials	★Fundamental Engineering and Laboratory Works	Machine Shop Practices A
		English Communication II	Basic Mathematics and Exercises A	Machine Sketching	Basic Industrial Design	Machine Shop Practices B
		English Communication III	Basic Mathematics and Exercises B	Machine System and Mechanism	Machine Drawing I	Machine Shop Practices C
		English Communication IV	Basic Mathematics and Exercises C	★Introduction to Manufacturing technology	Practices of Drawing with 3DCAD Applications I	Machine Shop Practices D
		Communication A	Physics A and Exercises	★Safety and Health Management	★Basic Measurement Practices	
		Communication B	Physics B and Exercises		Basic NC Machine Shop Practices	
Sophomore		Technical English I	Mathematics for Engineering A	Industrial Materials A	Mechanical dynamics Experiment I	Machine Drawing II
		Technical English II	Mathematics for Engineering B	Industrial Materials B	Mechanical dynamics Experiments II	Electric and electronic circuit and Experiments
		Technical English III	Mathematics for Engineering C	Industrial Materials C	Basic Electrical Engineering and Experiments	Programming and Exercises
		Humanities B	Thermodynamics I	Electric and electronic Technology	Strength of Materials I and Experiments	Control Technology and Experiments
		Social Science B	Strength of Materials I	Statistical Data Analysis	Practices of Drawing with 2DCAD Applications I	Sheet Metal Working Practices
		Environmental science A	Fluid Dynamics I	★Introduction to Manufacturing System	Practices of Drawing with 2DCAD Applications II	Basic Casting Practices
		Environmental science B	Numerical analysis I	★Industrial Constitution	3DCAD;Application and Exercises	★Project Practice Secondary Program
		Introduction of Life Sciences	Basic Electric Circuits		Machine Design and Drawing I	★Basic Internship (40 days work)
		Fundamental Competencies for Working Persons 2			Machine Design and Drawing II	
	Junior	Elective Courses	Practical English A	Thermodynamics II	Mathematical Engineering for Planning and Decision Making	Case Oriented Project Program
Practical English B			Strength of Materials II	Reliability Engineering	★Products Development Project Program I	
Practical English C			Strength of Materials II	Bioengineering	★Products Development Project Program II	
Practical English D			Fluid Dynamics II	Kansei Engineering	★L seminar	
Humanities C			Numerical analysis II	User Experience Engineering		
Social Science C			Heat Transfer Engineering	Ergonomics		
Structures and Functions of Human Body			Optical Engineering	Production Management		
Basic Employability Training			Energy Engineering	Quality Control		
Fundamental Competencies for Working Persons 3			Tribology	Product development plan		
Mathematics for Engineering D			Acoustic Engineering	Technical Communications		
Junior	Select Required Courses	Machine Design	Computational Fluid Dynamics Microdevices Applied Machine Elements Strength Design and Exercises Mechanical system Design and Exercises	CAE and Basic Exercises CAE and Applied Exercises Production Machinery Automobile Engineering	Advanced Computer Aided Designing CAD/CAM and Practices Surface Treatment Technology and Practice Automation Technology and Experiments 3DCAD and DTPD exercises	Sensor Technology and Experiments Digital Media Design Practice Methodology and Skills of Mocking-up
		Robotic Systems	Mechanical system Design and Exercises Production Machinery		Feedback Control and Experiments DegiElectric Circuits and Practices Analog Electric Circuits and Practices Image Processong and Experiments and Practice Robotics Technology I and Experiments Robotics Technology II and Experiments	Embedded Systems Fundamental Applied Embedded Systems Actuators and Experiments Sensor Technology and Experiments Advanced C Language Practices Mechatronics and Experiments
		Human Interface	Introduction to Semiconductor Engineering JAVA Programming Introduction to Computer Network		DegiElectric Circuits and Practices Analog Electric Circuits and Practices Interface Tecnology and Experiments Advanced C Language Practices Sensor Technology and Experiments Image Processong and Experiments and Practice	Digital Media Design Practice WEB Design and Practices Embedded Systems Fundamental Applied Embedded Systems Mechatronics and Experiments
		Production Systems	Manufacturing Technology A Machine Work B Production Machinery Automobile Engineering		Material Evaluation and Experiments CAD/CAM and Practices NC Machine Shop Practices A NC Machine Shop Practices B Manufacturing Experiments A Machine Work Experiment B	Sheet Metal Forming Practices Casting and Practices Forging and Practices Precision Measurement and Experiments Precision Machining And Practice Grinding and Practices
Senior	Elective Courses	The Principles of Management by PerterF.Drucker	Management for monodukuri businesses		★Seminar 1	★Graduation Project
		Fundamental Competencies for Working Persons 4	Strategies for Intellectual Property Utilization		★Seminar 2	Specialized Internship
	Select Required Courses	Machine Design	Advanced CAE in Monozukuri Planning on Factory	Production Process Design	Three-Dimensional Modeling Techniques and Practice Design Process of Industrial Products and Practice	Technology for Internet of Things and Experiments
		Robotic Systems	Technology for Intelligent Systems		Electric Equipment	Technology for Internet of Things and Experiments
		Human Interface	Technology for Intelligent Systems	Information Equipments	CG Programming and Practices	Technology for Internet of Things and Experiments
Production Systems	Advanced CAE in Monozukuri Planning on Factory	Production Process Design	Machine Diagnosis and Practices Automation Technology and Experiments	Mold Technology and Practices		

★ Compulsory subject

		Lecture-based Subjects			Training-based Subjects		
Freshman		<ul style="list-style-type: none"> ★Products Development Project Program I ★General Lecture for Technologists A Mathematics for Construction and Exercises I Mathematics for Construction and Exercises II Introduction to Field Research Introduction to Liberal Arts Sprts Communication English I English II English III Law and Technology 	<ul style="list-style-type: none"> Safety Engineering I Safety Engineering II Introduction to Architecture and Construction Theory Lectures for Construction Technique and Skills Physics for Construction and Exercises Psychology Chemistry for Construction and Exercises ★Building Construction and Methods I Building Construction and Methods II ★Structures and Materials I Structure and Material II 	<ul style="list-style-type: none"> Structures and Materials III Structures and Materials IV Social Infrastructure Fundamental Competencies for WorkingPersons I 	<ul style="list-style-type: none"> Basic Wooden Structure and Practices I Basic Wooden Structure and Practices II Basic Wooden Structure and Practices III Basic Wooden Structure and Practices IV Basic Construction Materials and Practices Basic Scaffold and Practices Basic Welding and Practices Basic RC Structures and Practices Basic Survey and Practices Basic RC Formwork and Practices Basic Plastering, Tiling and Practices 	<ul style="list-style-type: none"> Construction Drawing I Construction Drawing II ★Construction Drawing III Basic Construction Design I Computer Basics and Practices I Computer Basics and Practices II Computer Basics and Practices III 	
	Sophomore	<ul style="list-style-type: none"> ★Products Development Project Program II Lifesving Technique Hygienel ★Environment I Environment II Environment III ★Architecture Laws and Regulations I Architecture Laws and Regulations II Architecture Laws and Regulations III Architecture Laws and Regulations IV Building Production Construction Ethics Construction Schedule I Construction Schedule II Construction Communication Design Structures and Materials V 	<ul style="list-style-type: none"> Structure and Material VI ★Architecture Planning I Surveying I Surveying II Construction Materials Materials for Finishing System City Planning History of Western Architecture Fundamental Competencies for WorkingPersons II 		<ul style="list-style-type: none"> Basic Wooden Structure and Practices V Basic Steel Structure and Practices Basic Waterproofing, Coating and Practices Applied Wooden Structure and Practices I Applied Wooden Structure and Practices II RC Construct and Practices Steel Structure Building and Practices Finishing of RC Construct and Practices Steel Structure Finishing and Practices 	<ul style="list-style-type: none"> ★Basic Construction Design II ★Applied Construction Design I Applied Construction Design II Survey Practices I Survey Practices II Construction CAD and Practices I Construction CAD and Practices II Construction CAD and Practices III 	
Junior	Common Lecture	<ul style="list-style-type: none"> Ergonomics ★General Lecture for Technologists B Construction Economics I Construction Economics II Energy ★Construction Facilities and Equipment I Construction Facilities and Equipment II Construction Facilities and Equipment III Construction Facilities and Equipment IV Quantity Survey for Construction I Quantity Survey for Construction II ★Products Development Project Program III Construction Business Japanese Cultural Studies I Japanese Cultural Studies II Construction Management History of Modern Architecture History of Japanese Architecture Conservation and Restoration Housing Studies Production Design Interior Planning Project Management Lifesving Technique Hygienel Fundamental Competencies for WorkingPersons III 	Timber Construction	<ul style="list-style-type: none"> Wooden Structure Framework Methods Wood-Based Construction New Methods Structural Design of Timber Structures Wooden Building Interior and Exterior Finish Work Methods Exercises I for Structural Design of Timber Structures Exercises II for Structural Design of Timber Structures Wood-Based Materials Wood Processing Methods 		<ul style="list-style-type: none"> Wooden Structures, Integration and Practices I Wooden Structures, Integration and Practices II Wooden Structures, Integration and Practices III Wooden Structures, Integration and Practices IV Wooden Structures, Integration and Practices V Wooden Structures, Integration and Practices VI Wooden Structures, Integration and Practices VII Wooden Structures, Integration and Practices VIII 	<ul style="list-style-type: none"> Timber Structures and Experiment I Timber Structures and Experiment II Timber Structures and Experiment III Timber Frame and Practices Design & Drawing of Japanese Wooden House I Design & Drawing of Japanese Wooden House II Design & Drawing of Japanese Wooden House III Design & Drawing of Japanese Wooden House IV
			Structure Construction	<ul style="list-style-type: none"> RC Structure I RC Structure II Steel Structure Hydraulics and Soil Mechanics Flood Control Construction Methods Nature and Urban II Building Construction Methods Hybrid Structure Building Observation Methods 	<ul style="list-style-type: none"> Seismic Resistant and Isolation RC Construction I RC Construction II RC Diagnosis Erection Planning 	<ul style="list-style-type: none"> Practice of Urban Infrastructure Ground Survey and Soil Experimental Practice RC Structures; Integration and Practices I RC Structures; Integration and Practices II RC Structures; Diagnosis and Practices Structures of traditional building system ; Integration and Practices I Structures of traditional building system ; Integration and Practices II Environmental Survey and Practices Design for Environment 	<ul style="list-style-type: none"> Structure Design II Structure Design III Loads on Buildings and Structural Design Design of Building Environment and Services Environmental Reseach and Practices
			Finishing & Interior	<ul style="list-style-type: none"> Substrate and Dry-Wet construction method for Finishings Building Maintenance Modenization and Preservation Bilding Exterior Construction System Landscape Maintenance 		<ul style="list-style-type: none"> Finishing Skills and Practices I Finishing Skills and Practices II Finishing Skills and Practices III Finishing Skills and Practices IV Furniture Making Skill and Practice I (Design and Drawing) Furniture-Making Skills and PracticelI (Basic Wood Working) Furniture-Making Skills and PracticellI(Basic Wood Working) 	<ul style="list-style-type: none"> Furniture-Making Skills and PracticelV(Applied Wood Working) Furniture-Making Skills and Practice V(Applied Wood Working)
			Architecture Design	<ul style="list-style-type: none"> Stereotomy Wood Allocation Landscape Planning Landscape Design Garden Making Techniques Nature and Urban II 	Architecture PlanningII	<ul style="list-style-type: none"> Construction Total Design I Construction Total Design II Construction Total Design III Construction Total Design IV 	
Senior		Fundamental Competencies for WorkingPersons IV			<ul style="list-style-type: none"> ★Products Development Project Program IV ★Graduation Project 	<ul style="list-style-type: none"> Specialized Internship Internship for Architecture (advanced course) Specialized Internship for Survey Practices 	

★ Compulsory subject

	General Courses		Skill Technology Courses		Skill and Technology Courses	
	General Subjects	Practical Subjects	Lecture-based Subjects	Training-based Subjects	Project Training	Project Study
1st Year	Fundamental Research for Industrial Science in Japanese Context	Business Management for Technologists	Equipments Engineering	Wooden Structure of Japanese Architecture	Training course for technologists as project staff;Course1-Element technologies	Practical training of research activity for technologists;Course1-Problemsolving Practical training of research activity for technologists;Course2- Innovation
	Design for Manufacturing	Proposal and management technology	Computer aided technology	Traditional Design Technique and Practices	Training course for technologists as project staff;Course2- System design	
	Design of Manufacturing Process And Products for Human-Things Co-operation	Monotsukuri system	Technologies for Sustainability I	Technology of Advanced Structural Design	Training course for technologists as project staff;Course3- Project planning	
		Social Infrastructure Engineering	Technologies for Sustainability II	Technology of Advanced Material	Training course for technologists as project staff;Course4- Project management	
2nd Year	Application of Information Technology for Technologists	Micro-Fine Technology I	Technology of Advanced Construction Management	Training course for technologists as project staff;Course5 - Practice		
		Micro-Fine Technology II	Preservation & Restoration Technique and Practices	Training course for technologists as project staff;Course6 - Leadership		
	Survival English for Technologists	Advanced lecture on Architectural Planning	Preservation technology and Practices	Practical training of research activity for technologists;Course1-Problemsolving Practical training of research activity for technologists;Course2- Innovation		
		Advanced Lecture on City Planning	Maintain conservation technology advanced			
	Advanced environmental engineering	Theory of Traditional Architecture, Sukiya	Advanced casting and welding technology and practical training			
		Advanced Interior Design	Advanced precision machining			
	Design Theory of Steel Structure	Advanced plastic forming technology and practical training				
		Technologies for advanced function; Course 1 - Measurement and control systems				
		Technologies for advanced function; Course 2 - Intelligent systems				
		Studio Internship				
		Internship I				
		Internship II				
Master's Degree Project						