

Curriculum Structure of Electronic Materials and Mechatronics 【Domestic Students】 (Applicable to students enrolling in September, 2026)

Grade	Semester	Compulsory Courses	Elective Courses
Grad 1	1 st Semester	<ul style="list-style-type: none"> ● Materials Science* 	<p>Minimum: 3 courses in the 1st semester and 1 course in the 2nd semester.</p> <ul style="list-style-type: none"> ● Semiconductor Materials* ● Applied Mechanics and Mechanics of Materials* ● Nanomaterials and Analysis ● Factory Management ● Thin-Film Engineering and Characterization* ● Electronic Ceramics ● Polymer Materials ● Materials Analysis ● Ceramic Materials and Processes ● Energy Materials and Devices* ● Sensors ● Electron Microscopy ● Semiconductor Equipment* ● Thin Film Process Technology and Practice* ● Introduction to Passive Components (Restricted to Group A students)
	2 nd Semester	<p>Minimum: 1 course</p> <ul style="list-style-type: none"> ● Electronic Materials* ● Multilayer Ceramic Devices* 	

Note: * Indicates English-taught courses.

Grade	Semester	Compulsory Courses
Grad 2	1 st Semester	<ul style="list-style-type: none"> ● Special Topics & Technical Reports in Precision Electronic Components (I)
	2 nd Semester	<ul style="list-style-type: none"> ● Special Topics & Technical Reports in Precision Electronic Components (II)
Grad 3	1 st Semester	<ul style="list-style-type: none"> ● Special Topics & Technical Reports in Precision Electronic Components (III)

Course Tracks	Grade	Semester	27 Credits of Compulsory Internship Courses for Grad 1 to 3 Students
Group A	Grad 1	2 nd Semester	<ul style="list-style-type: none"> ● Internship in Introduction to Principle and Application of Resistor ● Internship in Basic Theory of Ceramic Dielectric Materials
	Grad 2	1 st Semester	<ul style="list-style-type: none"> ● Internship in Introduction of LC Resonance Circuit by LTCC Process ● Internship in Introduction of MLCC Manufacture Process - Part 1
		2 nd Semester	<ul style="list-style-type: none"> ● Internship in Introduction of MLCC Manufacture Process - Part 2 ● Internship in Introduction to the synthesis of Ceramic Powder
		Summer Semester	<ul style="list-style-type: none"> ● Internship in Introduction of Product Lifecycle Management / Product Launch Management
	Grad 3	1 st Semester	<ul style="list-style-type: none"> ● Internship in Analysis of Microstructure and Defects of Multi-Layer Ceramic Capacitors ● Internship in Reliability Test and Standard Documents for Resistor
Group B	Grad 1	2 nd Semester	<ul style="list-style-type: none"> ● Internship in Statistics and Experimental Design ● Entry-Level Corporate Internship
	Grad 2	1 st Semester	<ul style="list-style-type: none"> ● Advanced Corporate Internship (I) ● Advanced Corporate Internship (II)
		2 nd Semester	<ul style="list-style-type: none"> ● Advanced Corporate Internship (III) ● Advanced Corporate Internship (IV)
		Summer Semester	<ul style="list-style-type: none"> ● Advanced Corporate Internship (V)
	Grad 3	1 st Semester	<ul style="list-style-type: none"> ● Senior Corporate Internship (I) ● Senior Corporate Internship (II)