

UNDERGRADUATE PROGRAM

	Fall Semeste		Spring Semester	
	Course Title	Credits	Course Title	Credits
Freshman	Calculus I	3/3	Calculus II	3/3
	Physics	3/3	Mechanics of Engineering I	3/3
	Physics Laboratory	1/3	Eundamental & practice of Electrical Engineering	3/3
	Engineering Graphics	1/3	Thermodynamics	3/3
	Engineering Materials	3/3	Computer Programming Language	3/3
	Material Testing	1/3	Mechanical Drawing Practice	1/3
	Machanical English	0/2	Pneumatics	2/2
			Pneumatics Pracice	1/3
Sophomore	Engineering Mathematics I	3/3	Engineering Mathematics II	3/3
	Mechanical Manufacturing	3/3	Mechanism	3/3
	Mechanics Engineering II	3/3	Engineer Statistics	3/3
	Mechanics of Materials	3/3	Computer Numerical Method and Applications	3/3
	Applied Electronics	2/3	Sequential Control Theory	2/3
	Applied Electronics Practice	1/3	Practice of Sequential Control	1/3
	Precision Measurement and Practice	3/3		
Junior	Mechanical Design I	3/3	Special ProjectsI	2/2
	Automatic Control	3/3	Mechanical Design II	3/3
	Production Plan and Control	3/3		
	Computer-Aided Design	3/3		
	Fluid Dynamic and Fluid Machinery	3/3		
Senior	Special Projects II	2/2		

Elective course

Fall Semeste		Spring Semester	
Course Title	Credits	Course Title	Credits
Machine Shop Practice	1/3	Mechanics of Engineering III	3/3
Introduction to Mold and Die Engineering	3/3	Industrial Electronics control	3/3
Introduction of Development of Opto-Mechatronics Equipment	3/3	Metal Forming	3/3
New Product Design and Development	3/3	Computer aided machining and Manufacturing	3/3
Microcomputer Control Practice	3/3	Quality Engineering	3/3
Engineering Mathematics III	3/3	Mechanical Vibrations	3/3
Electrical Machinery	3/3	Computer Aided Engineering Analysis	3/3
Introduction to the RFID System and applications	3/3	Introduction to Railway Engineering	3/3
Surface Engineering	3/3	Mold and Die Manufacturing	3/3
Precision Cutting	3/3	Mechatronics	3/3
Reverse Engineering and Rapid Prototyping	3/3	Design Of Control System	3/3
Design & Analysis of Metal Die Mold	3/3	Electrical Machine Control	3/3
Plastic Injection Mold Design and Analysis	3/3	Digital Logic	3/3
Finite Element Analysis	3/3	Vehicle Engineering	3/3
Semi-Conductor Equipment and Processing	3/3	Non-traditional Manufacturing	3/3
Introduction to Micro-electromechanical System	3/3	Practice on Metal Forming Die Design	3/3
Stamping Dies Design	3/3	Stamping Dies Analysis	3/3
Computer Aided Industrial Design	3/3	Precise mold Material and Experiment	3/3
Mold and die Materials and Heat treatment	3/3	Plastics Engineering	3/3
Mechanical Structure and Vibration	3/3	Microsystem Fabrication Processes and Experiments	3/3
Design and application of geometrical optics	3/3	Physical Metallurgy Principle Application	3/3
Product Design Rendering Techniques	3/3	Introduction to Precision and Micro Mold Technology	3/3
Introduction of Engineering Project Control	3/3	Special Topics in Stamping Die Design	3/3
Theory of Sensors and Transducers	3/3	Special speech of plastic injection mold design and analysis	3/3
Digital Control System	3/3	Practice Projects	3/3
Theory and Practive of Artificial Intelligence	3/3	Ultrasonic Theory and Application	3/3
Introduction of Industry Analysis and Strategic Management	3/3	Special Topic on Precision and Micro Mold Insert Technology	3/3
Dynamic Systems and Optimal Control	3/3	Vehicle Dynamic Analysis	3/3
Principles and Applications of Liquid Crystal Display	3/3	Special Topics on Ultraprecision Machining	3/3
		Practice of Mechanical Machining	3/3
		Practice of Precision Die-Casting	3/3
		Innovation and Design-Around	3/3
		Manufacture & Business Integrated Information System	3/3
		Electronic Circuit Design for Digital Control System	3/3
		Numerical Analysis	3/3
		Statistical Process Control	3/3
		Kinematics of Plane mechanisms	3/3
		Production Control Information Systems	3/3
		Field Control Network and Practice	3/3

		Control Design and Practice in Optomechatronic System Integration	3/3
--	--	--	-----