Mechanical design manufacturing and automation

(undergraduate degree)

Second year

Third semester Fourth semester

Course	Credit	Course	credit
Thought moral qualities	6	Theory mechanics	4
Probability and Statistics	5	Foundation of manufacturing	3
College physics	7	Engineering material	2
		Tolerance and technique measure	3
		Electrical circuits and Electronics	4

Third year

Fifth semester Sixth semester

Course	Credit	Course	Credit
Material mechanics	4	Mechanical design	5
Testing technique and signal analysis	2	Techniques of mechanical manufacture	2
Mechanical design	3	Foundation of mechanical engineering control	3
Electrical circuits and Electronics	4	N.C. machine tool	2
Technics of mechanical manufacture	4	Principle and application of single slice	3
Hydraulic pressure driving	4		

Fourth year

Seventh semester Eighth semester

Course	Credit	Course	Credit
Mechanical optimize design	2	Optional courses	4
Industry technique economics	3	Optional courses	4
Servo system	4	Field work of Production	26
Examine and convert technique	3	Graduation project	
N.C. processing technology	3		

Automatically control of system and simulation	5		
Machine tool and electric automatically control	3		
Programmable controller	2		

Mechatronics Specialty

First year

First semester Second semester

Course	Credit	Course	Credit
Thought moral qualities	6	Engineering mathematics	3
Advanced mathematics	6	Thought moral qualities	5
Computer foundation	4	Programming in C	4
Mechanical drawing	4	College physics	5
College English	14	Mechanical drawing	3

Second year

Third semester Fourth semester

Course	Credit	Course	Credit
Basis of mechanical design	6	Thought moral qualities	5
Tolerance and technique measure	3	Engineering material	3
Foundation of mechanical engineering control	3	Engineering mechanics	6
Cutting lathe	3	Electronics	4
		CAD/CAM	3

Third year

Fifth semester Sixth semester

Course	Credit	Course	Credit
Testing technique and signal analysis	2	Optional courses	4
Hydraulic pressure driving	5	Optional courses	4
Foundation of manufacturing	5	Technical ability training	9
N.C. Technique	6	Graduation project	

Technology and system of mechatronics	4		
Principle and application of single slice	4		

Maintaining and Management of Equipments

First year

First semester Second semester

Course	Credit	Course	Credit
Thought moral qualities	6	Thought moral qualities	5
Advanced mathematics	6	Engineering mathematics	4
Computer foundation	5	Network technique	3
Mechanical drawing	5	Foundation of manufacturing	4
		Basis of mechanical design	8

Second year

Third semester Fourth semester

Course	Credit	Course	Credit
Thought moral qualities	6	CAD/CAM	3
Electronics	5	Metallurgy mine conspectus	2
Lubricate technique	2	Hydraulic pressure driving	5
Tolerance and technique measure	3	Principle and application of single slice	4
Cutting lathe	3	Technical economics of equipments	4

Third year

Fifth semester Sixth semester

Course	Credit	Course	Credit
Machine tool and electric automatically control	4	Optional courses	4
Technology and maintaining of modern equipments	6	Optional courses	4
Synthetic management of equipments	5	Optional courses	4
Computer management information system	7	Technical ability training	9
		Graduation project	