



## Shandong University of Science and Technology Mechanical and Electrical Engineering

### Course Outlines under Term System

#### COURSES FOR FIRST YEAR

##### 1<sup>st</sup> Term

Course No.	Course Title	Credit		Hours	
		Part-I	Part-II	Part-I	Part-II
	Chinese 国语 1	6		120	
	Physical Education 体育	2		36	
	Engg. Mathematics-I 高等数学	5		100	
	Computer Fundamentals 计算机文化基础	4		70	
	Machine Design & CAD 工程制图与 Auto CAD	3		50	
	Introduction to Major 专业介绍	1		20	
<b>Total</b>		21		396	
<b>Term Total for Part-I &amp; II</b>		21		396	

##### 2<sup>nd</sup> Term

	Chinese 国语 2	4		70	
	Physical Education 体育	2		36	
	Engg. Mathematics-II 高等数学	5		100	
	Machine Design & CAD 工程制图与 Auto CAD	3		50	
	C Language C 语言 1	3		40	20
	College Physics 大学物理	4	1	70	20
<b>Total</b>		22	1	386	40
<b>Term Total for Part-I &amp; II</b>		23		426	
<b>Grand Total for 1<sup>st</sup> Year</b>		44		822	

#### COURSES FOR SECOND YEAR

##### 3<sup>rd</sup> Term

Course No.	Course Title	Credit		Hours	
		Part-I	Part-II	Part-I	Part-II
	Chinese 国语 3	4		70	
	Physical Education 体育	2		36	
	Linearity Algebra 线性代数	2		36	
	Engineering Statics 概率论与数理统计	2		36	
	College Physics 大学物理	2	1	40	20
	C Language C 语言 2	3		60	
	Theoretical Mechanics 理论力学	4		72	8
	Metal Material & Heat Treatment 金属材料与热处理	2		32	4
<b>Total</b>		21	1	382	32
<b>Term Total for Part-I &amp; II</b>		22		424	

**4<sup>th</sup> Term**

	Chinese 国语 4	4		70	
	Physical Education 体育	2		36	
	Material Mechanics 材料力学	2		36	4
	Electronic Circuits Principle 电路原理	4		50	20
	Mechanical Principle 机械原理	4		70	6
	Applied Computer Skills 计算机应用基础	2	1	30	20
	Mechanical Principle Course Designs 机械原理课程设计		2		2wks
	Microcomputer Course Designs 微机原理课程设计		1		1wks
	Practice 金工实习		2		2wks
<b>Total</b>		<b>18</b>	<b>6</b>	<b>292</b>	<b>5wks</b>
<b>Term Total for Part-I &amp; II</b>		<b>24</b>		<b>402+5wks</b>	
<b>Grand Total for 2<sup>nd</sup> Year</b>		<b>46</b>		<b>826+5wks</b>	

**COURSES FOR THIRD YEAR****5<sup>th</sup> Term**

Course No.	Course Title	Credit		Hours	
		Part-I	Part-II	Part-I	Part-II
	Chinese 国语 5	3		60	
	Fluid Mechanics 流体力学	3		36	4
	Mechanical Design 机械设计	5		90	4
	Electronics Technology 电子技术	3	1	50	10
	Fluid Mechanics 流体力学	3		60	4
	Mechanical Manufacture Basis 机械制造基础	3		50	
	Mechanical Design Course Design 机械设计课程设计		2		2wks
<b>Total</b>		<b>20</b>	<b>3</b>	<b>346</b>	<b>22</b>
<b>Term Total for Part-I &amp; II</b>		<b>23</b>		<b>368+2wks</b>	

**6<sup>th</sup> Term**

	Hydraulic Transmission 液压传动与控制	3		50	6
	Engineering Measurement & Signal Processing 工程测试与信号处理	2		30	6
	Mechanical Design 机械设计	3		60	
	PLC 可编程控制器	2		36	
	Numerical Control Technology 数控技术	3		30	8
	Advanced Manufacturing Technology 先进制造技术	4		80	
	Modern Design Method 现代设计方法	2		32	4
	Hydraulic Transmission Course Design 液压传动课程设计		1		1wks
<b>Total</b>		<b>22</b>	<b>1</b>	<b>318</b>	<b>24</b>
<b>Term Total for Part-I &amp; II</b>		<b>24</b>		<b>342+1wks</b>	
<b>Grand Total for 3<sup>rd</sup> Year</b>		<b>47</b>		<b>710+3wks</b>	

**COURSES FOR FINAL YEAR****7<sup>th</sup> Term**

Course No.	Course Title	Credit		Hours	
		Part-I	Part-II	Part-I	Part-II
	Mechatronic Transmission Control 机电传动控制	3		50	
	Basis of Mechanical Engineering Control 机械工程控制基础	2		36	
	Mechatronics System Design 机电一体化系统设计	2		36	
	Power Supply for Factories & Mines 厂矿供电	3		46	4
	Digital Simulation 数字仿真	2		36	
	Internet Technology 网络技术	2		36	
	Basis of Robot Technique 机器人技术基础	2		36	
	Hydraulic Servo Control 液压伺服控制	2		36	
	Machinery Fault Diagnosis Technology 设备故障诊断技术	2		36	
	Factory Practice 工厂实习		4		4wks
		20	4	348	4wks
		24		348+4wks	

**8<sup>th</sup> Term**

Course No.	Course Title				
	Major Course Design 专业课程设计		2		2wks
	Practice 实习		2		2wks
	Graduation Project 毕业设计		16		16wks
Total			20		20wks
Term Total for Part-I & II			20		20wks
Grand Total for 4 <sup>th</sup> Year			44		348+24wks