《基础工业工程》课程中英文简介

Fundament of Industrial Engineering

课程代码：2121212B **Course Code：**2121212B

课程名称：基础工业工程 **Course Name：**Fundament of Industrial

Engineering

学时：32 **Periods：**32

学分：2 **Credits：**2

考核方式：考查 **Assessment：**Test

先修课程：无 **Preparatory Courses：**None

工业工程是一门技术和管理相结合的工程学科。《基础工业工程》是工业工程本科专业的主干课程,是进入专业课程培养的第一门必修课。该课程主要讲授工业工程的基本概念、基本原理和工作研究方法，其中工作研究方法包括两大块内容体系：一是方法研究内容，包括程序分析、操作分析、动作分析；二是时间研究内容：包含秒表时间研究、工作抽样、预定时间、标准资料。通过本课程的学习，使学生了解工业工程的学科性质、特点和发展方向，了解工业工程的研究方法与应用领域并初步形成系统概念，重点掌握工作研究这一工业工程基础方法，并为专业理念的形成和后续课程学习奠定基础。

在传授专业知识的过程中，明确将专业性职业伦理操守和职业道德教育融为一体，给予学生正确的价值取向引导，以此提升学生的思想道德素质和情商能力。

使学生对IE有一个基本的了解，并能够了解并运用其专业图纸、技法、思考方法与团队合作，解决工作中实际存在的问题。从微观上了解工作研究的实战应用。特别是标准工时的测量与管理，更是IE专业知识中的重中之重；从宏观上了解生产管理、工程设计等管理活动中IE的应用，重点在目标、政策、计划、控制的了解与实战管控。并为更精进一步掌握IE知识，解决更高层次问题垫定必要的基础。

Industrial Engineering is one of the engineering disciplines which is a combination of technology and management . " Fundament of Industrial Engineering " is one of the core courses of industrial engineering and is one of the compulsory professional courses . This course include the basic concepts of industrial engineering, the basic principles and work study methods . Through studying the curriculum, students know the nature, characteristics and development direction of industrial engineering, and understand the research methods and application areas of industrial engineering, and then form the initial system concept, In thia course ,students should master the work study which is the basic method of industrial engineering, and then make preparation for furture study.

In the process of imparting professional knowledge, we should clearly integrate professional ethics and professional ethics education, and give students correct guidance of value orientation, so as to improve students' Ideological and moral quality and emotional intelligence ability.

So that students have a basic understanding and be able to understand and use their professional drawings, techniques, considering methods and team work to solve practical problems. Learn from the micro-job research on combat application. the measurement and management of Standard working hours is more professional in IE; Know production management and engineering design management activities in the application of IE, with emphasis on objectives, policies, planning, control and actual control.