《基础工业工程课程设计》课程中英文简介

Course Project of Fundament of Industrial Engineering

课程代码：2121231B **Course Code：**2121231B

课程名称：基础工业工程课程设计 **Course Name：**Course Project of Fundament

of Industrial Engineering

学时：16 **Periods：**16

学分：1 **Credits：**1

考核方式：考查 **Assessment：**Test

先修课程：基础工业工程 **Preparatory Courses：**Fundament of Industrial

Engineering

工业工程是应用科学及社会学的知识，以合理化、舒适化的途径改善生产流程，提高生产效率。本课程设计是以某项具体产品的模拟生产过程为研究对象，运用系统分析的方法，将工作中不经济、不合理、不均衡的现象去除，寻求合理有效的工作方法。首先，通过对中奖游艺器的装配，记录其工艺过程及所需时间，进行程序分析、作业分析、双手作业分析、动素分析，并绘制工艺程序图、流程程序图、双手作业分析图以及动素分析图，在此基础上进行分析改善。然后，运用模特法确定工序的标准时间，再结合宽放时间制定标准时间，从而进行作业测定。

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。

Industrial Engineering is to improve the production process and increase the production efficiency by using the knowledge of science and sociology in a reasonable way. This course project of Fundament of Industrial Engineering is based on the simulation production process of a specific product and the objective is to remove the uneconomic, unreasonable and unbalanced phenomenon in industrial practice and to explore efficient work study method by using the systems analysis.  In the course project, certain device will be assembled first.  The assembly process and its time required will be recorded as well. Then the program analysis, operation analysis, two hand operation analysis, and kinematical analysis will be carried out and the process flow chart, flow chart, two hand operation analysis chart and kinematical analysis chart will be drawn. At last, the standard time of the process will be determined by the model method, and the new standard time will be formulated so as to carry out the operation measurement.

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.