## 《机械设计课程设计》课程中英文简介

Course Exercise in Mechanical Design

课程代码：081202B **Course Code：**081202B

课程名称：机械设计课程设计 **Course Name：**Course Exercise in

Mechanical Design

学 时：32 **Periods：**32

学 分：2 **Credits：**2

考核方式：考查 **Assessment：**Test

先修课程：工程制图、机械设计基础 **Preparatory Courses：**Engineering Drawing

Fundamentals of Mechanical Design

《机械设计课程设计》是一门综合性与实践性紧密结合的课程，是学生第一次较全面的机械设计训练。该课程以圆柱齿轮减速器的设计为主要内容，在教师系统介绍圆柱齿轮减速器设计的基本思路、设计步骤、设计实例和设计中常出现的问题后，由学生根据以前所学知识和教师的讲解，自己动手设计一直齿圆柱齿轮减速器，绘制装配图并编写设计说明书。通过该课程的实践学习，学习机械设计的一般方法，训练学生机械设计的基本技能，提高学生综合运用所学知识解决工程实际问题的能力。

" Course Exercise in Mechanical Design " is a coursecombiningcomprehensive and practical , isa course that the students are the first timecomprehensive training in mechanical design. It’s main content is thedesign of the cylindrical gear reducer. The teacher introduces design concepts, design steps, design examples and problems in the design of cylindrical gear reducer by the numbers, then the students design a spur gear reducer base on the knowledge which the students studied before and the teacher introduced, last draw the assembly and write the design introduction. Through the practice of the course, students can learn the general mechanical design method, train the basic skills of mechanical design, and improve the ability of solving practical engineering problem by the knowledge that learned before.