Research on Project Teaching of the Course Automobile Electronic and Electrical Equipment

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Abstract
This research was intended to apply the project teaching method to the practice teaching of the course Automobile Electronic and Electrical Equipment. We discussed the respective duty and way of act of the teachers and students in the process of the project teaching method. We designed totally 11 projects with respective learning objectives of different automobile electrical systems for the project teaching of the course Automobile Electronic

Keywords
Project teaching; Teaching method; Practice; Automobile electronic and electrical equipment; Application

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Through the recent years' practice of the project teaching method applied on this course, we define four stages of this teaching process including project task setting, project plan making, implementation of the subject and project evaluation and summary. It is proved that project teaching method is the most effective way to cultivate students' comprehensive quality and is able to arouse students' learning interest and innovation ability. At the same time it is also able to cultivate students' analysis ability, adaptability, communication ability and cooperation ability.
Study BSc (Hons) Electrical and Electronic Engineering and become one of the 'most employable' graduates in the UK. Enquire about this course or visit us at an Open Day. Take the chance to get involved in far-reaching projects such as the ALICE experiment, on which we are working in partnership with leading organisations at CERN, the European Organisation for Nuclear Research. Prepare for a fulfilling career in areas as diverse as avionics, medical electronics, automotive systems, electrical power generation, mining or the rail industry. The course runs at our Markeaton Street site, which boasts an impressive array of labs and equipment. List of Electrical projects ideas for final year electrical engineering students along with resources, like circuit diagram, code, working process etc… Various sensors employed in this design continuously monitors the parameters of the motor. Microcontroller compares all these sensor data with respective set limits and accordingly the switches the relay. This information will be sent to the remote PC using Zigbee communication module. Protecting Induction Motor From Phase & Temperature: Over heating of a motor can decrease the life time of the motor, causes insulation failure etc. Hence it is necessary to protect the motor from single phasing and overheating. The present project shows the hardware setup for monitoring the phases and temper Electric Circuits - Electrical Engineering Fundamentals is offered as a YouTube video that runs less than an hour. Students learn about Kirchhoff's laws, voltage, current and power, electrical resistance and basic circuit elements. The textbook for this course was Foundations of Analog and Digital Electronic Circuits. Introduction to Electronics, Signals and Measurement provides OCW users with an introduction to the field of electronics, with a particular emphasis on signals and measurement. Electrical Engineering 240- Advanced Analog Integrated Circuits provides a study of the design and analysis of various amplifiers, as well as methods of reaching wide-band amplification. Learning materials in this course include 26 lecture videos.