

## Chapter 1 : Civil Engineering Project Ideas For Third/Final Year Students - | CrazyEngineers

*In this post, we are listing out some good Final Year EEE Projects ideas as many people are searching for this kind of post on internet for many days. So, here we have included various projects in different categories like embedded, electrical, robotics, communication, solar, sensor, etc.*

Well, given the number of methods present in the market for preparing food, induction cooking ranks among the best methods of cooking one would adopt. Apart from the fact that it is way easier to adapt than installing its counterparts, this has been ranked among the most convenient methods of cooking and also the fastest method as compared to its counterparts. Unlike its counterparts, induction cooktops apply magnetism to convert cooking pans to cookers thus creating energy from within the pan, unlike alternative methods where heat originates from fire from outside the pan. However, given the little knowledge of the working of this little saviors, many shy away from the sets in the fear that it will call for a change in all household appliances. However, that is not exactly the case. If you possess magnetic items in your kitchen, you will require the most minimal changes. To ensure that you are well poised to understand the formula in which induction cooktops work, we created this article that describes the working of the sets adequately. How do induction cooktops work? Being one of the most basic pre-historic technologies, cooking ranks among the things that human beings would not have survived without while perfecting the art of feeding. Basically, the idea behind cooking was heating food with the aim of giving it a better taste and eventually eliminating bacteria from the food. Prior to delving into the working of an induction cooktop, it is crucial to understand the meaning of induction thus making it easier to understand the whole concept. This basically means generating electricity using the concept of magnetism and thus the concept that electricity and magnetism are not two totally disconnected entities rather aspects that compound to one phenomenon. To come about with the heat, the cooktop induces electrons in a magnetic material to move about this coming up with an electric charge that generates heat in the pot thus enabling cooking within the pot. To enable this, the sets are fitted with a ceramic coil beneath and thus once the unit is turned on, electric current flows within the coil and thus creates a rapidly alternating magnetic field. As a result, heat is shifted inside the cooking vessel and thus heating food within the cooking pots. Material that can be used with induction cooktops As much as the cooktops are convenient, you have to ensure that the material of your cookware is magnetic. A good example of these is cast iron, stainless steel, and other magnetic material. However, this does not mean that your material should be fully magnetic. Provided that the lower parts of your pot are magnetic, you are ready to go. To determine this, you may use a magnet and if it sticks on the surface, you are good to go. If your material is not magnetic, however, that does not have to be a limiting factor. However, the interface reduces the rate of electro trans missal and thus may slow down your cooking process.

### Chapter 2 : Engineering Final Year Projects for Electronics and Computer Engineering, Student Project Ideas

*We develop, guide and train students on their final year projects so that they score the best of marks in their final years. Our training is based on live projects and we ensure students get practical knowledge on the working and technical details of the project.*

I want to research advance civil project you have idea about this? Design of a concrete structure using any software used in Industry. Design of a building using base isolators. Design of steel structure using any software used in Industry. Designing a High Rise building. Dynamic analysis of a High Rise building. Design of a High Rise building using Dampers. Design of a Bridge, You can take into consideration different types of bridges like suspension, continuous etc. Concrete technology, you may try and find a substitute for the traditional admixtures used. Design of a water Treatment plant or Sewage Treatment plant. Design of the canal system, you may also try and find a different material to be used as canal lining. Design of a Dam. You may also try and compare different types of Dams. Use of different materials as geotextiles. Surveying of a town for development of better amenities. Non Linear Analysis of a Structure. Reach your career goals faster! Finding your dream job just got easier. Find jobs in your city or matching your skills-set. Further compiling data collected from various surveys in arc GIS and analysing them in interpretable formats Contour Maps, Heat Maps etc. Performing SPT at bridge site, prepare bore log sheet and conducting various laboratory tests for soil sample at foundation level to obtain soil quality parameters for designing sub structure of the bridge. Noise Level Survey and Air Quality Monitoring SPM, NO<sub>x</sub> and SO<sub>2</sub>, a spatial variation of which was plotted along with other spatial variables and inferences drawn were incorporated in strategies proposed for traffic management in the city. Hydraulic design of the bridge. Calculation of Mean Scour Depth and Afflux. Design of storm water drainage. Design of Pre-stressed Concrete Girder bridge. Further data from all the surveys was compiled to prepare a GIS database and ITS was proposed at different locations based on the inferences drawn from the surveyed data. Approach road and approach slab for the bridge on both ends was also designed considering comfort and psychological requirements. Redesign of Bus Depot was also proposed.

## Chapter 3 : Latest Electrical projects ideas for Engineering students

*Get the best list of engineering projects for final year students. These latest electronics projects ideas s are very useful to do project in engineering.*

Electrical Engineering is one of the most innovative fields in the fields of engineering. Many Students are graduating as an electrical engineer every year. Thousands of electrical engineering researchers are working on new projects to serve people and to make their life more and more easy and comfortable. Many Electrical Engineering final year students complete their final year electrical projects. Every Electrical engineering student is passionate enough to work on complex and innovative projects. I have seen many students struggling to find best electrical projects for their final year course work. Therefore I decide to write an article on EEE final year project ideas. Electrical projects ideas Many new concepts have been introduced in electrical engineering in last couple of years. The projects list given below includes latest innovations made in electrical engineering field. This list of project ideas will give you idea to choose your final year project and this list also contains a list of mini electrical projects which may be useful for one of the part of your electrical project. Electrical projects ideas for final year Engineering students: Following is the list of electrical projects ideas for final year students. If you want to share your idea, write in comments.

**Pure sine wave inverter using pic microcontroller:** In this project, pure sine wave inverter is designed using pic microcontroller. PIC16FA microcontroller is used to generate sinusoidal pulse width modulation. DC to dc converter step up 12 volt of battery to volt dc using high frequency ferrite core transformer. Sg is used to control PWM of dc to dc converter. H bridge is used to convert volt dc to AC. Square wave inverter using pic microcontroller and SG Square wave inverter is designed using sg Sg is pulse width modulation controller IC. Modified sine wave inverter using pic microcontroller: Modified sine wave inverter is also called cosi-square invertr. In this project, Modified sine wave inverter is designed using pic microcontroller.

**Smart PWM based solar charge controller using pic microcontroller:** Solar charge controllers are very important part of solar system. To read more about this project, click on link. In this project 15A solar charge controller is designed for charging of batteries. This project includes electronics based over and under charging protection system for batteries. Maximum power point tracking techniques are used to extract maximum power from solar panels by operating them at maximum power point. For more information about it,check complete article.

**Solar powered automatic irrigation system using pic16fa microcontroller:** Solar powered auto irrigation system is used to provide water to plants automatically. In this project, moisture sensor is used to measure moisture level in soil and in case of moisture level fall below a certain level, Microcontroller turn on water pump. Solar panels are used to provide power to water pump and rest of the power stores in batteries through solar charge controller.

**Auto intensity control of street lights using pic microcontroller:** In this project, solar street lights are controlled automatically with the help of light sensor. Intensity of street light start decreasing in case of light level start increasing in morning and vice versa. Wireless temperature sensor is designed using pic microcontroller and gsm module. Pic microcontroller reads temperature using temperature sensor and send it to user mobile number through sms.

**AC voltage meter using pic microcontroller:** This project is designed to measure AC voltage using pic microcontroller analog to digital converter. Difference amplifier is used in this project to step down AC voltage level below 5 volt. Because microcontroller can not read voltage more than 5 volt.

**AC current meter using pic microcontroller:** Current transformer step down AC current. After that microcontroller reads voltage across shunt resistor. Microcontroller read this voltage and after doing some calculations in programming microcontroller display AC current on LCD.

**Power factor measurement meter using pic microcontroller:** Power factor measurement meter is designed using current sensor, voltage sensor, zero crossing detection and phase angle measurement. PIC microcontroller reads these values of sensors and after some mathematical calculations displays power factor on LCD.

**AC power measurement meter using pic microcontroller:** Ac power measurement meter is designed using current sensor, voltage sensor, power factor measurement and pic microcontroller.

**Solar powered auto irrigation system using pic microcontroller:** This project is designed using RF transmitter and receiver for wireless communication. Metal detector detects metal

and inform microcontroller and send signal to receiver end microcontroller. Automatic control of street lights: This project control the street lights automatically. Street lights turn on automatically at night and turn off automatically in morning. Green house intelligent control system using pic microcontroller: Green house system is designed to make green house self controllable. Light sensor, temperature sensor, moisture sensor and humidity sensors are used in this project. Light sensor control lights of green house. Temperature sensor control fans, moisture sensor controls waster pump and humidity sensor control spray on plans. Digital humidity meter using pic microcontroller: Digital humidity meter measures humidity of room with the help of microcontroller and displays it on Liquid crystal display. Digital frequency meter using pic microcontroller: Zero crossing detection circuits detect zero crossing of square wave and time between two continuous zero crossings is used to measure frequency. Digital temperature meter using pic microcontroller: Micorcontroller displays voltage on LCD.

### Chapter 4 : Final Year Projects For Engineering Students | NevonProjects

*IEEE Final Year Projects. While getting into a project center to do your Final year Projects. Note down they provide projects on all streams. During Interviews, companies consider this part for their placements.*

### Chapter 5 : Mechanical Engineering Projects | Ideas | Seminars |Final Year|

*Get final year projects for electronics and communication along with project guidance and tutorials for your research and studies. Electronics and communication engineering is the technical field that deals with electronically running circuits and systems.*

### Chapter 6 : Final Year Project Ideas for Civil Engineering (List Daily Updated)

*These engineering projects are researched and developed by our engineer team to help students to learn and build final year projects using latest technologies and to experience multidisciplinary projects.*

### Chapter 7 : Final Year Projects - Department of Electrical Engineering & Electronics - University of Liverpool

*About Us We provide latest technology projects for students of BE/ME/Diploma/MCA and others in all the branches. The project category fall into system based, application based, web based, embedded based, mechanical based and more.*

### Chapter 8 : Agriculture Engineering Project Ideas For Third/Final Year Students | CrazyEngineers

*These list of final year project ideas for civil engineering students are innovative and research based topic list covering all the subjects and fields of civil engineering. So you are in the final year of your Civil Engineering Graduation or Masters opting majors in numbers of construction and civil engineering relevant subjects and looking.*

### Chapter 9 : Final Projects ECE

*Be Project centre provides best projects for all computer science engineering and IT students in [blog.quintoapp.com](http://blog.quintoapp.com) are giving one of best Final Year Cse Projects Chennai and IT Projects Ideas. First Step: All Computer Science and IT students study about what are the domains in Computer and IT field?*