DEPARTMENT VIS

To become a reputed learning centre producing competent

professionals.

DEPARTMENT MISSION

- > Provide Quality education through interactive teaching-learning practices.
- > Establish Technology-enabled environment for core competencies including robotics.
- > Arrange Industry-Interaction to hone professional skills.
- Organize activities to foster social skills and ethical values.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- Apply Engineering concepts to solve Electronics and Communication Engineering problems of social relevance.
- Design and develop Electronic devices and Systems for Industry or pursue research. •
- Demonstrate competencies through continuous learning and adapt to multidisciplinary environment.
- Practice professional values and contribute to the societal needs.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- Professional Skills: Apply principles of Analog and Digital Electronics, Communication Systems, Image processing, VLSI and Embedded Systems to solve diverse problems.
- Software Knowledge: Develop solutions for complex engineering problems of social relevance by employing Xilinx, CC Studio, Micro Wind, Keil, NG Spice, Scilab tools.

ABOUT THE DEPARTMENT

Department of Electronics and Communication Engineering (ECE) was established in the year 2008 and offers an under graduate program in ECE, with an initial intake of 60, and progressively increased to 180 by the year 2012. To accomplish the mission and vision of the Department, it has adequate infrastructural support with well equipped laboratories.

The Department aims at imparting the students with the latest technologies through NPTEL, Webinars, Spoken tutorials, Workshops and internships.

The Department also employs training programmes such as 'College to Corporate' (C2C), International Institute of Entrepreneurship (i2E) .The Department of ECE has membership in professional societies like IEEE and IETE. Adequate encouragement and technical scaffolding are extended to the students to participate and excel in the national Level challenges.





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> > -Y.YAMINI II ECE-A

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-VINAY KATARI I ECE-B



STUDENTS ARTICLES WOMEN EMPOWERMENT



Women's empowerment is a movement involving respect, honour and recognition toward all Women. Empowerment can be defined in many ways, however, when talking about women's empowerment, empowerment means accepting and allowing people

(women) who are on the outside of the decision-making process into it. "This puts a strong emphasis on participation in political structures and formal decision-making and, in the economic sphere, on the ability to obtain an income that enables participation in economic decision-making. Women's empowerment and achieving gender equality is essential for our society to ensure the sustainable development of the country.

-SHAIK MEHAIK II ECE-C



VIRTUAL AND AUGMENTED TECHNOLOGY

Augmented Reality (AR) and Virtual Reality (VR) are a part of these advanced and innovative forms of technologies that were thought as a part of fiction even a few years ago. But now they are a vital part of the daily reality. The biggest confusion in

the world is the difference between Augmented Reality and Virtual Reality. Augmented Reality is a synthetic, computer simulated reality or recreation of a real-time environment where a user can interact with the replicated real environments, whereas Virtual Reality is completely immersive. It immerses the user by making them feel that they are experiencing the real environment not the simulated one by means of auditive, visual, and tactual simulations.

BAYANA ABHISHEK II ECE-C

LOW COST INTELLIGENT WHEELCHAIR EMBEDDED PROJECT

The main aim of this project is to design of low-cost intelligent wheelchair. This chair is designed for physically disabled persons. It designed to control devices and to ask others their minimum basic needs like water, food etc. wheelchair movement is controlled by using MEMS sensor which attached to their hands based on hand movement the direction wheelchair is changed. If the hand moves towards right wheelchair move right direction if hand moves towards left it moves towards left. The movement of the wheelchair is done by using motors connected to the controller through driver IC. To wheel chair two modes (Mode0, Mode1) particular mode can be selected by using push button. Keys are used to control the devices when it is one mode and in same way same keys are used to tell his basic requirements through voice using APR9600 voice IC. Devices are connected to controller through relays. The communication between wheel chair and devices controlling board is done by using RF technology.

-D. VIJAYA LAKSHMI II ECE-C

GEETHANJALI INSTITUTE OF SCIENCE AND TECHNOLOGY

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