



IGNITE

CATCH THE TECHNOLOGY

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY
NANDAMURU. PEDANA. 521 36**

Volume 1, Issue 2

December 2016

Page 1

Chief Editor:

Prof. M. Srinivasulu

Editors:

1. Prof. M. V. Bhavani Shankar

2. Prof. G. S. V. N. V. Babu

Faculty Coordinators:

1. A. Chandra Suresh

2. K. P. R. R. Raju

3. G. Sita Annapurna

4. N. Chandra Sekhara Reddy

5. B. Phanindra Kumar

Student Coordinators:

1. D. Gayatri

2. Y. Keerthana

3. J. Priyanka

4. J. prakash

Message from

Dr. M. Srinivasulu,

Prof. & HoD Of ECE

The ECE Dept newsletter is a platform for sharing educational information, activities and events related to the ECE Department. I hope that the news letter will provide useful and relevant information. It is the intent of the department to make it a Quarterly publication to keep in touch with the departmental activities and achievements. This is a platform to share information and you can participate by sharing your thoughts on the Departmental activities or by contributing information on the events that you have organized.

Department Vision:

To become centre of excellence in Electronics and Communication Engineering to meet the challenges of industry and the society

Department Mission:

DM1: Impart high quality education to enable students to face challenges Of Electronics and Communication Engineering.

DM2: Provide all possible support to promote activities in the related areas of VLSI, Communications, Signal Processing, and Micro Processors & Micro Controllers.

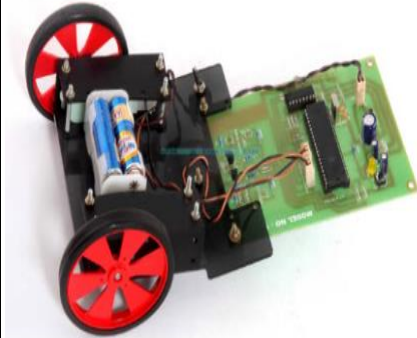
DM3: Inculcate ethical, professional values and life-long learning skills to address the societal needs

Technology:

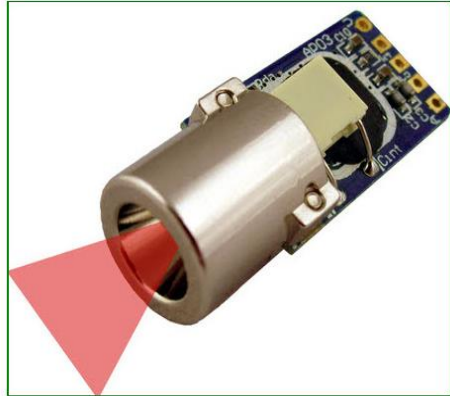
A Wireless Robotic Vehicle Using IR Sensors

A robot is a mechanical or virtual artificial agent, generally an electro mechanical machine that is guided by a computer program using electronic circuitry. Robots can be autonomous or semi-autonomous and range from humanoids such as Honda's is the advanced Step in Innovative Mobility and TOSY's. TOSY Ping Pong Playing Robot to industrial robots, patient assist robots, medical operating robots, dog therapy robots, collectively programmed swarm robots, and even microscopic nano robots. By representing a life like appearance or automating movements, a robot may transfer a sense of intelligence or through on its own. This article discusses about IR sensor based wireless robotic vehicle.

An IR sensor is a device that emits in order to sense some aspects of the surroundings which detects IR radiation falling on it. The emitter is simply an IR LED (Light Emitting Diode) and the detector is simply an IR photodiode which is sensitive to IR light of the same wavelength is emitted by the IR LED. When IR light falls on the photodiode, the resistances and output voltages, change in proportion to the magnitude of the IR light received. There are many types of IR sensors that are built and can be built depending upon the application. Contrast sensors (Used in Line Following Robots), Proximity sensors (Used in Touch Screen phones), and obstruction sensors (Used for counting goods and in Burglar Alarms) these are some examples.



Wireless Robotic Vehicle



IR Sensor

Student Participation:

<i>S.no</i>	<i>Student Name</i>	<i>Participation</i>	<i>College name</i>	<i>Prize</i>
<i>1</i>	<i>B.Pushpanjali</i>	<i>Poster</i>	<i>Vishnu engg College</i>	<i>Second</i>
<i>2</i>	<i>M.Sai Nishitha</i>	<i>poster</i>	<i>Usharama Engg College</i>	<i>Second</i>
<i>3</i>	<i>N.Sai Sahithi</i>	<i>Poster</i>	<i>Gudlavalleru Engg College</i>	<i>Second</i>