JPCOE Chronicle

"Reach for the Stars"

Monthly Newsletter
JANUARY'18
Volume VI, Issue VII

HAPPY New Year

JP COLLEGE OF ENGINEERING

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HOLY FATHER'S MESSAGE

Dear Brothers and Sisters,

"Carrying Jesus, the Madonna also brings us a new joy, full of meaning; she brings us a new ability to pass with faith through the most painful and difficult moments; she brings us the capacity for mercy, forgiveness, understanding and supporting one another," the Pope said Aug. 15.

Mary, he said, "is the model of faith and virtue," and in contemplating her Assumption into Heaven, we give her thanks "because she always precedes us on the pilgrimage of life and of faith."

We are also able to ask that she "guard us and sustain us, that we may have a strong faith, joyful and merciful; that she help us to be holy, to meet her, one day, in paradise,"

+POPE FRANCIS

PONGAL FESTIVAL

Our college celebrates **Pongal Festival** on 11.01.18. **Rev.Fr.Lucas, Campus Manager** blessed all departments pongal ingredients.

Our **Principal** and **Administrator** and **Correspondent** were pray for the Pongal celebration

Our **Students** were interestingly participated in all events.

Teaching and **Non-teaching** Faculties are also participating in events.

Prizes were distributed to the **winners**.

CAMPUS DRIVE

- Pooled campus drive by **WindCare India Pvt Ltd, Coimbatore** on **30-01-2018** (Tuesday) at JPCOE, **MECH** and **EEE** students were participated and 28 students are selected.

S.No	Name	Department	S.No	Name	Department
1	ABDUL KANI.L	MECH	1	ARUN KUMAR.A	EEE
2	AROCKIASAMY.B	MECH	2	EDBERK DAVI.S	EEE
3	DOMI MATHEW.M	MECH	3	ESAKKIDURAI.S	EEE
4	FRANCIS.A	MECH	4	GANESAN.M	EEE
5	KANAGARAJ. K	MECH	5	JOHN JENIFER.A	EEE
6	ALAGESHKUMAR H	MECH	6	MANIKANDAN.M	EEE
7	ESAKKIMUTHU.K	MECH	7	MANIKANDAN.S	EEE
8	NAGOOR MEERAN.U.S	MECH	8	MUNIYARAJ.M	EEE
9	PAULRAJ.R	MECH	9	DINESH	EEE
10	SHINE.K.S	MECH	10	MARIA ASLIN	EEE
11	CLEMENT PAUL REBAL B	MECH	11	SATHISH	EEE
12	XAVIER RAJ.T	MECH	12	ULAGARAJ M	EEE
13	PARAMESH.P	MECH			
14	RITTIN JOSE	MECH			
15	WILLIANS	MECH			
16	SURESH	MECH			

ON Campus Placement Drive by **VPG SENSORS, Chennai** on **22-01-2018** (Monday). **ECE, EEE** and **MECH** student were participated and 10 students were selected.

S.No	Name	Department
1.	Vinoth Kumar	MECH
2.	Iswarya.I	ECE
3.	Poorna Gomathi.K	ECE
4.	Saraswathi.M	ECE
5.	Seshu Dayliya.J	ECE
6.	Tamil Selvi.J	ECE
7.	Theankani.T	ECE
8.	Vijayalakshmi.G	ECE
9.	Sasikala.C	EEE
10.	Karthika.L	EEE

Campus drive by **TECHIVA, Chennai** on **06-01-2018** (Saturday) at JPCOE.**CSE** Department students were participated and 4 students selected.

- **Blessy Freeda**
- **Velsri karthika**
- **Rukkiabegum**
- **Malathy**

WOMEN AWARENESS PROGRAM

WOMEN AWARENESS PROGRAM was conducted in our institution on 30-01-18. **Mrs.Thiriveni, Judicial Magistrate, Tenkasi** was invited as a chief guest.

GATE AWARESS PROGRAM

- **Gate exam awareness** program was conducted for **Topper Students** of **JPCOE** at Auditorium on 11.01.18.
- This program was handled by **Mr.Murali, Connect Training Solution,Tirunelveli.**

HEAD MASTER MEETING

- **School Head Master Meeting** was organized by **J.P.College of Engineering** at college Auditorium on 29.01.18.

- We invite **Chief Guest as Mrs.Rathibai.DEO**,Tenkasi.
- Totally 175 school Head Masters were participated in this program.

INAUGURATION ASSOCIATION

- **On 04.01.2018, an Association was initiated for the department of civil engineering**

- Mr.Tamil Veeran, Principal of Thangapalam Polytechnic college was invited as a Chief Guest.

Workshop

➢ Dot NET Training Program was conducted for III year and IV year students By Ramasubramaniyan,ECCI, Tirunelveli on 05-01-2018.

➢ Seminar was conducted in the topic of Basic Network Communication on 06-01-18. By Livewire Technology,Tenkasi.

STUDENT MEET

Our CSE Department HOD Mr.N.Senthil Murugan conducted Class Representative meeting for discussing department activities on 08-01-2018.

ORIENTATION PROGRAM

Industry-Institution Interactive Program was conducted for ECE and CSE department III year and IV year Students.Mr.Ramasamy Ayera Jothi, MD, Stradegi Solutions India Pvt Ltd, Chennai was invited as a Chief guest.

Motivation Program

Inspirational and motivational video of Mr.Nandakumar,IRS(Indian Revenue Service) was displayed during association period on 20-01-2018.

Motivation program was conducted by Future Group from Canadian Immigration on 23.01.18. Mr. Vincent Soosai, Resident Group, Canada was given motivational speech. Our Department Toppers attend that program.

Motivation session for IV year students was given by Dr.Rajkumar Principal, JPCOE on 24-01-2018.

Aptitude Class

Mrs.N.Pappu Sivanantham, AP/CSE, JPCOE has conducted aptitude class for II year CSE students.

OS Installation Demo was given by Mr.Ponrajan LABTECH/CSE on 27-01-18.

Co-Curricular Activities

Our CSE Department student Participate National level technical symposium conducted by Sivanthi Adhithanar College of Engineering on 25.01.18.

- Aarthi Selvi III CSE
- Anjana Biju III CSE
- Karthigai Selvam III CSE
- Mahima III CSE

They were presented paper and get participation certificates.

DEPARTMENT TOPPERS

Students from II, III and IVECE Years who got highest GPA were cosidered as department toppers in the odd semester.

- ☆ Alima farjana (8.77)
- ☆ s.nivetha (8.64)
- ☆ J.soundarya (8.5)

Department toppers are taken photo along with HOD and their Class Advisor.

COLLEGE TOPPERS

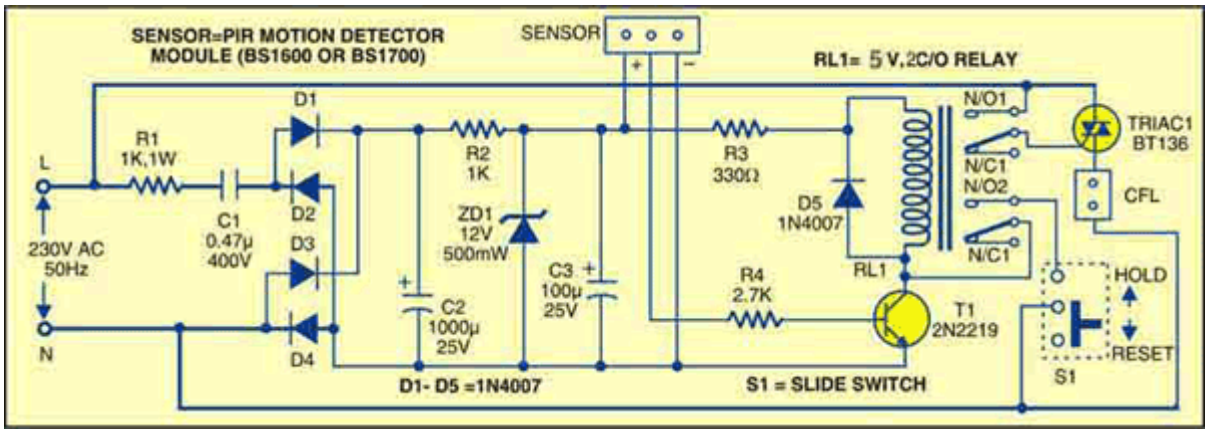
Students from all department who got highest CGPA were considered as college toppers.

College toppers are taken photo along with Principal and their Department HOD.

MOTION SENSOR FOR SECURITY LIGHT

Motion sensor circuit:

- A motion sensor system based on PIR motion detector module BS1600 (or BS1700) that can be used for security or corridor lighting in power-saving mode. The 12V DC power supply required for the motion detector and the relay driver is derived from 230V, 50Hz mains using a transformer less circuit.



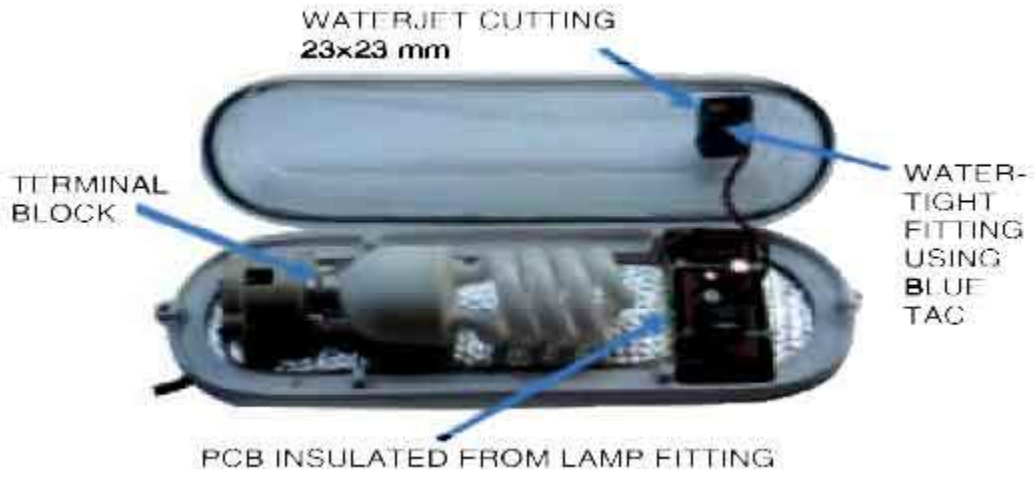
The working of the circuit is simple. When you power-on the circuit after assembling all the components including the CFL, the CFL will glow for 10 seconds, turn off for 30 seconds, glow for 10 seconds and then turn off. Now the circuit is ready to work.

Circuit operation:

- When any movement is detected, around 3.3V appears on the base of relay-driver transistor T1 and it conducts to energise relay RL1. As a result, Triac1 (BT136) fires to provide full 230V and light up the CFL. Another normally-opened contact of the relay (N/O2) is used here to hold the output until reset. If the switch is not in 'hold' position, the light will remain 'on' for about ten seconds (as programmed in the motion sensor). In short, when there is a movement near the sensor, the CFL glows for about ten seconds. It will remain 'on' if switch S1 is in 'hold' position.

Construction and testing:

- Assemble the circuit on a general purpose PCB and enclose in a suitable cabinet. Use a three-pin connector for connecting the PIR sensor in the circuit with correct polarity. The motion detector



is embedded onto the transparent cover of the light. PIR motion detector module. A PIR sensor and 23W, 230V AC CFL are used. Seal all four sides with Blue Tac for water-tightness. Insulate the track side of the PCB using an insulating foam and glue to the base.

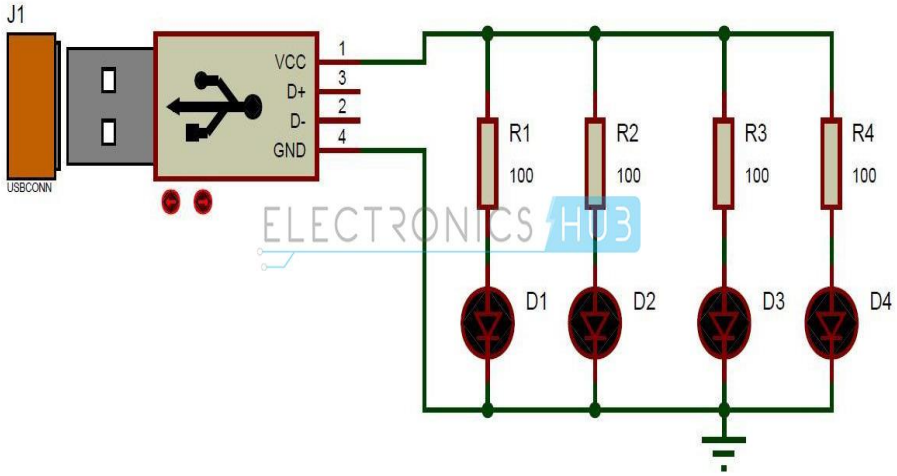
M.SORNAMATHI,

ECE-final year

USB LED LAMP

USB LED LAMP CIRCUIT DESIGN:

The circuit mainly consists of USB. USBs can be divided into mainly of two standard types – USB of 'A' type and USB of 'B' type. These different types of USBs connectors differ in their shapes .
Type 'A' USB can be used with the upstream devices such as USB hub or host .Type 'B' USB can be used with downstream devices such as printers .These cables will have same number of pins but they differ mechanically. Many versions in USB were released. The first version USB 1.0 and 1.1had the data rate of 12 Mbps.USB 2.0 has data rate of 480 Mbps.USB 3.0 is expected to have data rate of 4.8 Gbps.



About the circuit – 3X3X3 LED Cube Circuit

USB used here is of type 'A'. It has 4 pins. These pins are VCC, GND, D+, D- pins are the data pins. VCC pin outputs the voltage of 5V. The USB used here is of type 'A'. This can be simply connected to the USB port of the computer.
LED is a semiconductor device with two leads. Generally LEDs are used for indicating. It is similar to a normal P-N junction diode. The energy emitted is in the form of light when applied with the required voltage, while normal P-N junction diode emits energy in the form of heat. The color of light emitted depends on the band gap of the semiconductor. The LEDs used here are normal LEDs. They have voltage drop of 3.6V. The current required by the LEDs is 40mA. Initially these LEDs are limited to the red color, later high power LEDs such as blue LEDs, white LEDs were developed.
A resistor of 100kohms is connected between the Light Emitting Diode and the USB. This acts as a limiting resistor. As the LEDs require maximum current of 40mA to glow with full brightness, they are required to protect from current more than this. So for that a resistor is to be placed before the led to oppose the amount of current. The supply voltage coming from the USB is 5V and the current drop at the Light Emitting Diode is 40 milli amperes.

Operate USB LED Lamp Circuit?

- *Initially connect the circuit as shown in the circuit diagram.*
- *Now insert the USB to the port of the computer.*
- *You can observe the lamp glowing*
- *Now remove the USB from port.*
- *Now lamp is switched off.*

Advantages:

- *This is simple and inexpensive.*
- *This is a portable lamp.*
- *No extra source is required.*

Applications of USB LED Lamp Circuit:

- *This can be used as an emergency light. Get an idea about **Working of Automatic LED Emergency Lights Circuit**.*
- *This can be used to work with laptop or computer without disturbing the others sleep.*
- *This can be used as a reading lamp.*

Limitations of the Circuit:

- *This gives low intensity of light as it has only four LEDs.*

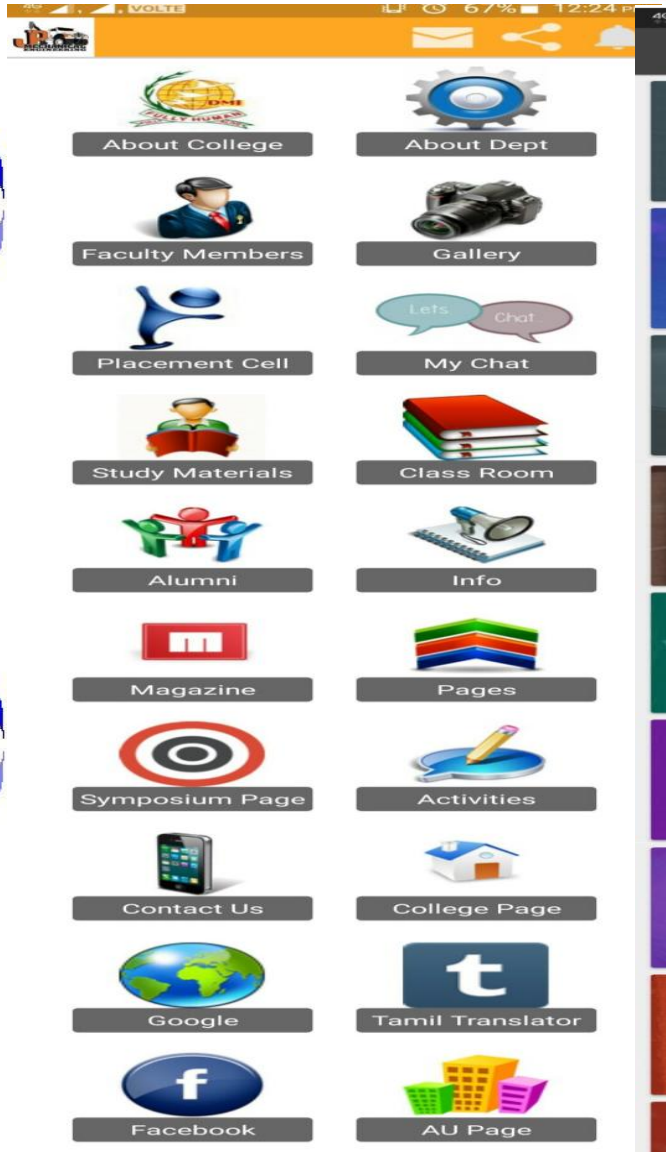
NAZRIN FATHIMA

ECE-II YEAR

WORKSHOP

WORKSHOP

- *One day workshop was organized by EEE department of JP College of engineering on 03.01.2018 in EEE simulation lab.*
- *Mr.S.Kalimuthu Kumar AP/ EEE & Mr.K.Vijayakumar AP/EEE from Kalasalingam University were the resource persons and the workshop was based on the topic " Embedded System Design Using AVR Microcontroller"*
- *Students from Third year and second year students of Electrical and Electronics Engineering Department were participated in this program*



Our Department staff **Mr.Balamurugan** made a mobile app for notes soft copy in which the students can get the notes in any time any where

App Download Link: www.androidcreator.com/app341762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