



# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi - 590018, Karnataka India**



**JSS ACADEMY OF TECHNICAL EDUCATION  
Kengeri-Uttarahalli Road, Bengaluru-60.**

**DEPARTMENT OF ELECTRONICS AND  
COMMUNICATION ENGINEERING**

**Faculty in charge: Dr. Ravikumar K.P**

**DONE BY**

**NAME**

**(USN)**

**CSE C (C3)**

**Subject: Basic Electronics & Communication Engineering**

**Subject code:21ELN24**

**Date:-**



**JSS MAHAVIDYAPEETHA**  
**JSS Academy of Technical Education**  
**Bengaluru-560 060**

## *Laboratory Certificate*

**Name of the Laboratory .....**

**This is to certify that Smt./Sri .....**

**has satisfactorily completed the course of Experiments Prescribed by  
 VTU, Belgavi, for the degree course in the Laboratory of the College  
 in year 20.....- 20.....**

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**Head of the Department**

.....

**Sign. of Teacher In charge**

**Date.....20**

**Name of the Candidate:**

**USN:**

**Examination Centre**

**Date of Practical Examination:**

## List of experiments

Sl. No	Expt name	Page nos	Marks awarded
1	+5V power supply unit using Bridge rectifier, capacitor filter, and IC 7805.		
2	To switch on/off an LED using a diode in forward / reverse bias using a battery cell.		
3	Transistor switches circuit to operate a relay that switched off/on an LED.		
4	IC 741 Integrator circuit / comparator circuit		
5	To operate a small loudspeaker by generating oscillations using IC 555.		
6	Half / full-wave rectifier using diodes		
7	Voltage multipliers		
8	Op-amp circuits – inverting, non-inverting amplifiers, summers, differentiators		
9	Flip-flops – all types		
10	Shift registers and counters		
11	Oscillators.		

## Course Outcomes of Basic Electronics

COs	Basic Electronics	Bloom's Level
C114.1	Construct electronic circuits such as power supply, amplifiers and oscillators using active and passive components.	L3
C114.2	Develop logic circuits and digital systems associated with sensors and actuators.	L3
C114.3	Make use of the embedded system concept, characteristics and technological advances in embedded applications.	L3
C114.4	Apply the fundamentals of Communication Engineering concepts to explain wired and wireless network systems.	L3

## CO PO Mapping:

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C114.1	3	3	2	-	2	-	-	-	-	-	-	
C114.2	3	3	2	-	2	-	-	-	-	-	-	
C114.3	2	2	2	-	-	-	-	-	-	2	-	2
C114.4	2	2	2	-	-	-	-	-	-	2	-	2
C114	2.5	2.5	2		2				-	2		2

Expt.No.

AIM: -