

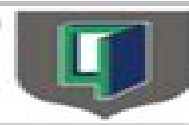
## Step\_Up\_Chopper -- Overview



**Dr. Ashish Shrivastava** (Professor & HoD)

**Vikas Singh Bhadoria** (Asst. Professor)

Electrical Engineering Department  
JRE Group of Institution, Gr.Noida (UP)



### STEP-UP CHOPPER (DC-DC CONVERTER)

#### Objective:

After performing this lab exercise, learner will be able to:

- Understand the working of DC-DC converter.
- Understand and design single-phase Step Up Chopper.
- Analyze and interpret results.
- Learn the role of Power Electronics in utility related applications, e.g. UPS, SMPS etc.
- Work with digital oscilloscope to debug circuit and analyze signals.

#### Equipment:

To carry out this experiment, you will need:

- Single Phase DC-DC converter Kit
- SCR firing circuit kit, 1-phase, 230V, 5A
- Patch chords
- Load
- Digital Oscilloscope (TBS1000B-EDU from Tektronix)

#### Circuit Diagram:



#### Theory:

- A chopper is a high speed ON/OFF switch. It connects source to load and disconnect the load from the source at very fast speed. Hence a chopped output voltage is obtained from a constant DC supply.
- If in a chopper average output voltage  $V_o$  is greater than the input voltage  $V_s$ , then this type of chopper is called as step up

# Lab Manual For Step Up Dc Chopper

**Thirumalaisamy P.**  
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## Lab Manual For Step Up Dc Chopper:

ELECTRONICS LAB MANUAL (VOLUME 2) NAVAS, K. A., 2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories This book covers 118 experiments for linear analog integrated circuits lab communication engineering lab power electronics lab microwave lab and optical communication lab The experiments described in this book enable the students to learn Various analog integrated circuits and their functions Analog and digital communication techniques Power electronics circuits and their functions Microwave equipment and components Optical communication devices This book is intended for the B Tech students of Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics It is designed not only for engineering students but can also be used by BSc MSc Physics and Diploma students KEY FEATURES Contains aim components and equipment required theory circuit diagram pin outs of active devices design tables graphs alternate circuits and troubleshooting techniques for each experiment Includes viva voce and examination questions with their answers Provides exposure on various devices TARGET AUDIENCE B Tech Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics BSc MSc Physics Diploma Engineering *IEEE Proceedings of the Southeastcon* ,1990 *Energy Research Abstracts* ,1979

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