

# **DIGITAL SYSTEM**

## **PRACTICUM REPORT 1 : USING PROTEUS 8**



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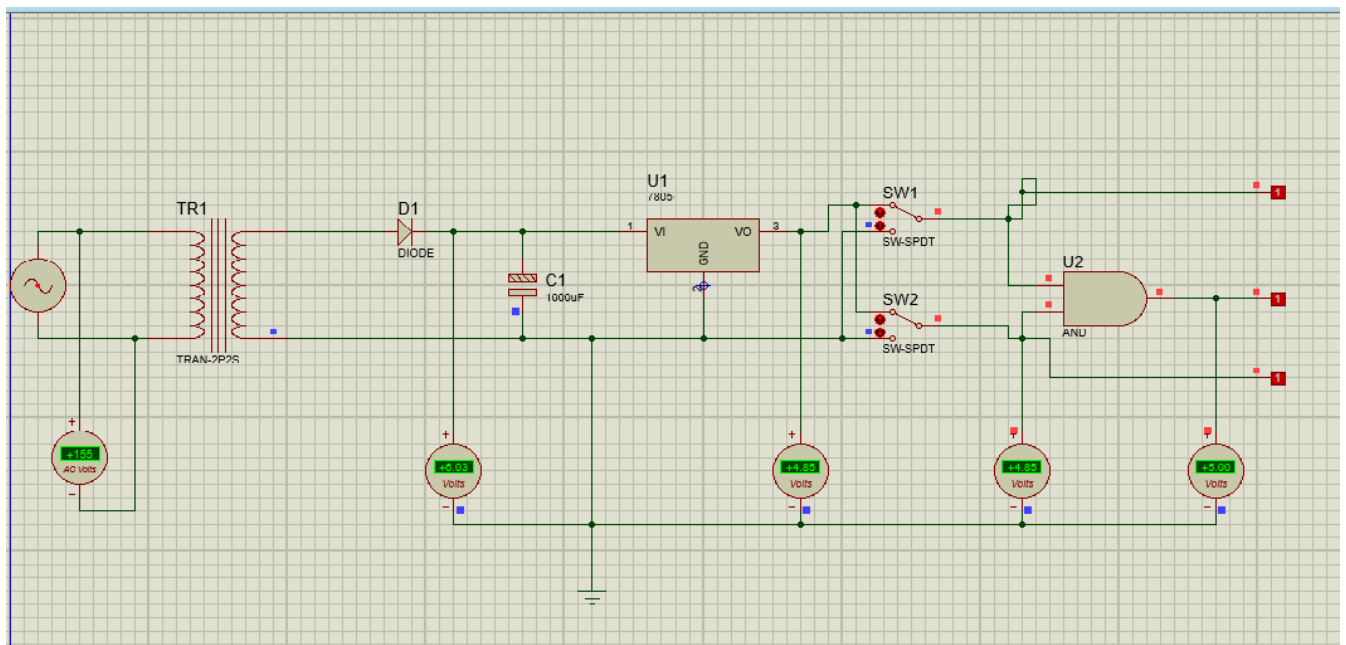
**INFORMATION TECHNOLOGY**

**FACULTY OF COMMUNICATION AND INFORMATICS**

**MUHAMMADIYAH UNIVERSITY OF SURAKARTA**

**2019**

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**DATE OF PRACTICUM** : Friday, March 1<sup>st</sup> 2019



- a) Voltmeter AC : +155 Volt
- b) Voltmeter DC 1 : +6,03 Volt
- c) Voltmeter DC 2 : +4,85 Volt
- d) Voltmeter DC 3 : +4,85 Volt
- e) Voltmeter DC 4 : +5,00 Volt

Answer the Question Below!

**1. what is the difference between AC and DC voltage?**

- a) AC : alternating current  
DC : direct current
- b) AC voltage is easier to produce than DC voltage.
- c) AC voltage can be easily changed and transmitted, but DC voltage is difficult to change; Therefore they are difficult to send.
- d) Active components such as inductors, capacitors, transistors, and ammeters respond to AC voltage in a different way from DC voltage.
- e) A capacitor will forward the AC voltage, but it will block the DC signal while the inductor will do the opposite.
- f) Clean area under voltage - the time curve of an AC signal is zero while not zero for a DC signal.

**2. What is the Character of the Voltage on Each Voltmeter?**

- a) voltage in an AC voltmeter: (AC / ~~DC~~) and has a character: positive stable
- b) voltage in an DC 1 voltmeter: (~~AC~~ / DC) and has a character: positive unstable
- c) voltage in an DC 2 voltmeter: (~~AC~~ / DC) and has a character: positive unstable
- d) voltage in an DC 3 voltmeter: (~~AC~~ / DC) and has a character: positive unstable
- e) voltage in an DC 4 voltmeter: (~~AC~~ / DC) and has a character: positive unstable