RCET 0253 Linear Regulators & Switch Mode Power Supplies
Lab 10 Check-Off Sheet

Student Information

Name Start Date

Check-Offs

Action item	Date (DD/MM/YY)	Status	Instructor Initials
1. LM317 Linear Regulator Specifications		☐ Satisfactory ☐ Unsatisfactory	
2. LM317 Linear Regulator Fixed Voltage		☐ Satisfactory ☐ Unsatisfactory	
3. LM317 Linear Regulator Variable Voltage		☐ Satisfactory ☐ Unsatisfactory	
4. LM317 Linear Regulator Fixed Current		☐ Satisfactory ☐ Unsatisfactory	
5. LM317 Linear Regulator Variable Current		☐ Satisfactory ☐ Unsatisfactory	
7. Heatsink Calculations		☐ Satisfactory ☐ Unsatisfactory	
8. Heatsink power dissipation measurement		☐ Satisfactory ☐ Unsatisfactory	
9. Discrete Unregulated SMPS - BUCK SMPS PWM verification (5v to 25v) with 1KΩ load		☐ Satisfactory ☐ Unsatisfactory	
10. Discrete Unregulated SMPS - BUCK SMPS design and measurement at 1amp		☐ Satisfactory ☐ Unsatisfactory	
11. Discrete Regulated SMPS – TL494 Specifications, Functions, & Demo.		☐ Satisfactory ☐ Unsatisfactory	
12. Discrete Regulated SMPS – TL494 Fixed Voltage Regulation		☐ Satisfactory ☐ Unsatisfactory	
13. Discrete Regulated SMPS – TL494 Variable Voltage 5V to 25V Regulation		☐ Satisfactory ☐ Unsatisfactory	
14. MC34063ACN – Specifications and Functions		☐ Satisfactory ☐ Unsatisfactory	
15. MC34063 – Buck Circuit with 30V input		☐ Satisfactory ☐ Unsatisfactory	
16. MC34063 – Boost Circuit with 5V input		☐ Satisfactory ☐ Unsatisfactory	
17. MC34063 – Inverter Circuit with 5V input		☐ Satisfactory ☐ Unsatisfactory	

Check-Off Redo

(write in Action Item!)	Date (DD/MM/YY)	Status	Instructor Initials
		☐ Satisfactory ☐ Unsatisfactory	
		☐ Satisfactory ☐ Unsatisfactory	
		☐ Satisfactory ☐ Unsatisfactory	