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| **ENGINEERING OF PHYSICS****MECHANICAL PHYSICS LABORATORY II** |

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| **EXPERIMENT NAME:** OHM’S LAW- SERIES AND PARALLEL CIRCUITS**EXPERIMENT NO:** 2**STUDENT NAME SURNAME:****STUDENT NUMBER:****DEPARTMENT&EDUCATION TYPE:** |

**PART 1: SERIES CIRCUIT**



V= 5.05 V (applied voltage)

R1= 11Ω V1= 0.95 V (measured voltage)

R2= 47Ω V2= 4.14 V (measured voltage)

Calculate the current I for this circuit. And after calculating current, check the voltages across each resistor. Find the percentage error of the voltages V1 and V2.