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| **Course Name:** | **Elements of Electrical and Electronics Engineering** | **Semester:** | **I/II** |
| **Date of Performance:** |  | **Batch No:** |  |
| **Faculty Name:** |  | **Roll No:** |  |
| **Faculty Sign & Date:** |  | **Grade/Marks:** | **/ 25** |

**Experiment No: 9**

**Title:** **Measurement of Power using Two Wattmeter Method**

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| **Aim and Objective of the Experiment:** |
| * To measure the power of three phase power using Two Wattmeter Method |

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| **COs to be achieved:** |
| **CO1:** Analyze resistive networks excited by DC sources using various network theorems. |

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| **Circuit Diagram/ Block Diagram:** |
| **Circuit Diagram** |

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| **Stepwise-Procedure:** |
| 1. 1.Connect the circuit as shown in circuit diagram 2. 2. Increase the load and note down the reading VL,IL,W1 and W2 3. 3. Practically you will obtain total power W=W1+W2 4. 4. Theoretically power is measured by using formula P=√3VLILcosϕ,   using cosϕ=1(unity) for resistive load. |

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| **Observation Table: STAR LOAD**   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Sr.no** | **VL** | **IL** | **W1** | **W2** | **W=W1+W2** | **P=√3VLILCOSϕ** | **Load** | | 1 |  |  |  |  |  |  | R =100 Ω | | **2** |  |  |  |  |  |  | R=100 Ω & L = 1 H | | **3** |  |  |  |  |  |  | R=100 Ω & C = 10 µF | | **4** |  |  |  |  |  |  |  | | **5** |  |  |  |  |  |  |  | |
| Screenshot of Output:  C:\Users\FacultyMBZ\Pictures\Screenshots\Screenshot (170).png  C:\Users\FacultyMBZ\Pictures\Screenshots\Screenshot (171).png |

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| **Conclusion:** |
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| **Signature of faculty in-charge with Date:** |