



Day	Time	Venue

Lecturer :	Dr Mohd Azri Hizami Bin Rasid, Mr. Suhaimi Bin Puteh		
Course Code & Name :	BTI3503 - Electrical Machines		
Program :	Module TVET	Section :	1
Faculty :	FTKPM		
Semester :	I	Session :	25/26

Total Mark **0** %

Students Name	1
	2
	3
	4
	5

Strengths Demonstrated:

Specific Suggestions for Future Labs:

1.1 Theoretical Knowledge		
Criteria	Score (0-4)	Comments
Understanding of induction motor principles <ul style="list-style-type: none"> • Demonstrates knowledge of motor operation • Explains slip concept clearly • Understands power factor significance 		
Familiarity with test procedures <ul style="list-style-type: none"> • Reviews lab manual beforehand • Understands measurement techniques • Knows expected outcomes 		
Safety awareness <ul style="list-style-type: none"> • Demonstrates knowledge of safety procedures • Identifies potential hazards • Knows emergency procedures 		
total	0 /12	

Additional Pre-Lab Observations:

☐ Brings required materials (calculator, notebook, etc.)

☐ Arrives on time and ready to begin

☐ Asks relevant questions about procedures

2.1 Personal Safety		
Criteria	Score (0-4)	Comments
Personal Protective Equipment (PPE) <ul style="list-style-type: none"> • Wears safety glasses throughout lab • Appropriate footwear (closed-toe) • No loose clothing/jewelry near equipment 		
Electrical safety practices <ul style="list-style-type: none"> • Makes connections only when power is off • Uses proper isolation procedures • Checks connections before energizing 		
Mechanical safety awareness <ul style="list-style-type: none"> • Maintains safe distance from rotating equipment • Keeps workspace clean and organized • Reports unusual equipment behavior 		

2.2 Professional Conduct		
Criteria	Score (0-4)	Comments
Teamwork and collaboration <ul style="list-style-type: none"> • Works effectively with lab partner • Communicates clearly and respectfully • Shares responsibilities appropriately 		
Laboratory etiquette <ul style="list-style-type: none"> • Follows instructor directions • Maintains quiet, focused work environment • Respects equipment and facilities 		

	total	0 /20
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3.1 Equipment Setup and Connections		
Criteria	Score (0-4)	Comments
Wiring and connections <ul style="list-style-type: none"> • Makes correct motor connections (wye configuration) • Properly connects measurement instruments • Verifies connections before energizing 		
Instrument calibration and setup <ul style="list-style-type: none"> • Properly configures measurement ranges • Checks instrument functionality • Sets up data acquisition correctly 		
System verification <ul style="list-style-type: none"> • Performs pre-start checks systematically • Verifies phase sequence • Ensures proper load coupling 		

3.2 Data Collection Techniques		
Criteria	Score (0-4)	Comments
Virtual simulation execution <ul style="list-style-type: none"> • Navigates virtual lab environment effectively • Collects data at specified voltage points • Allows adequate settling time 		
Physical measurement accuracy <ul style="list-style-type: none"> • Takes readings when system is stable • Uses appropriate measurement techniques • Records data consistently and accurately 		
Load variation procedure <ul style="list-style-type: none"> • Applies load increments systematically • Monitors motor condition during testing • Recognizes approach to stall condition 		

3.3 Real-time Analysis and Troubleshooting		
Criteria	Score (0-4)	Comments

Data validation <ul style="list-style-type: none"> • Recognizes unreasonable readings • Identifies measurement errors promptly • Takes corrective action when needed 		
Equipment operation <ul style="list-style-type: none"> • Operates variacs smoothly and safely • Monitors system parameters continuously • Responds appropriately to equipment behavior 		
Problem-solving skills <ul style="list-style-type: none"> • Diagnoses issues systematically • Seeks appropriate assistance when needed • Implements solutions effectively 		

*Based on Report

4.1 Data Interpretation		
Criteria	Score (0-4)	Comments
Trend identification <ul style="list-style-type: none">• Recognizes patterns in data• Identifies relationships between variables• Compares results with theoretical expectations		
Critical analysis <ul style="list-style-type: none">• Evaluates data quality and consistency• Identifies sources of error• Distinguishes between measurement and calculation errors		
Graphical representation <ul style="list-style-type: none">• Creates appropriate graphs during lab• Interprets graphical trends correctly• Uses graphs to support conclusions		

	total	/12
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*Based on Report

5.1 Verbal Communication		
Criteria	Score (0-4)	Comments
Technical discussion <ul style="list-style-type: none">• Explains observations using technical terminology• Discusses results with instructor coherently• Answers questions accurately		
Question formulation <ul style="list-style-type: none">• Asks relevant, thoughtful questions• Seeks clarification when needed• Demonstrates curiosity about results		

	total	/8
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