CHAPTER FIVE

CONCLUSION AND RECOMMENDATION

1.1 Conclusion

The single-phase transformer trainer was successfully designed and constructed, me eting the specified aim and objectives. The single-phase transformer trainer enables experiments such as transformation ratio test, open circuit test to measure core losse s, short circuit test to measure copper losses, and load tests to evaluate efficiency an d voltage regulation of the single-phase transformer. Finally, the project demonstrates the importance of transformers in electrical power systems and provides a valuable l earning tool for students.

5.2 Recommendation

Future projects could focus on designing and constructing three-phase tran sformer trainers or transformers with different ratings and specifications by incorp orating additional features such as temperature monitoring, overcurrent protection, and digital displays for easier data collection.

In addition, future projects could also explore designing transformers with different ratings, configurations, or materials to expand the scope of experimentation and le arning. Moreover, integrating the trainer with data acquisition systems or simulatio n software could provide more comprehensive insights into transformer performan ce and behavior.

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