

## TABLE OF CONTENTS

	<b>Page</b>
TABLE OF CONTENTS	i
LIST OF TABLES	ii
LIST OF FIGURES	iii
LIST OF ABBREVIATIONS	vii
INTRODUCTION	1
Objectives	4
The scopes of work	4
LITERATURE REVIEWS	5
Interacting tank process	5
Laboratory virtual instrument engineering workbench	7
Proportional integral derivative	8
Internal model control	9
Generic model control	10
Fuzzy logic control	11
MATERIALS AND METHOD	12
Materials	12
Methods	13
To set up the control system for two-interacting tank rig	15
To generate mathematical model for proposed systems	17
To design the various controllers by using LabVIEW 8.0	29
RESULTS AND DISCUSSION	45
Calibration curves	45
LabVIEW programming	48
Dynamics responses	62
CONCLUSIONS	82
RECOMMENDATIONS	84
LITERATURE CITED	85
APPENDIX	87