Table of Contents

1. CHAPTER 1: INTRODUCTION 1
1.1. Problem Statement, Research Questions, and Purpose of the Study 7
1.2. Objectives of the study 10
1.3. Thesis Organization 12
2. CHAPTER 2: LITERATURE REVIEW 15
2.1. Helpdesk in the Academic Environment 15
2.2. Characteristics and problems of the academic helpdesk 19
2.3. Satisfaction and Service Quality 23
2.4. Service Level Agreement 'SLA' and Data Flow Diagrams 29
Workflow and process definition 29
The building blocks of the workflow process 30
2.5. Measuring helpdesk performance 31
2.6. SERVQUAL Instrument 38
2.7. Conclusion 41
3. CHAPTER 3: TECHNICAL SUPPORT HELPDESK AT BIRZEIT UNIVERSITY 43
Introduction 43
3.1. A brief Background 43
3.2. Staff 47
3.3. Hierarchy 48
3.4. Current Issues and burdens 49
3.5. Conclusion 53
4. CHAPTER 4: RESEARCH METHODOLOGY 54
Introduction 54
4.1. Research Methodology overview and Time frame of the study 54
4.2. Hypotheses 57
4.3. Time Frame of the Study: 59
4.4. Modified Gartner Inc. Performance Matrix 60
A description of the modified matrix weights: 61
Measuring BZU Users' Satisfaction and Service Quality of the Helpdesk 62
4.5. Questionnaire Development and Design: 64
4.6. Measuring BZU Helpdesk Staff Job Satisfaction 72
Targeted populations and sample design 72
Questionnaire Development and Design: 72
4.7. Statistics of the Helpdesk Call Management System 74
4.8. Limitations of the study 77
4.9. Conclusion 77
5. CHAPTER 5: DATA ANALYSIS AND FINDINGS 78
Introduction 78
5.1. Helpdesk users' satisfaction and service quality questionnaire 78

5.2. BZU Helpdesk staff job Satisfaction questionnaire 108
5.3. FCR and ART Analysis 113
5.4. Conclusion 115
6. CHAPTER 6: BENCHMARKING BZU MODEL AGAINST THE ROAD MAP SOLUTION MODEL 116
Introduction 116
6.1. The Road Map Solution Model 116
General Service Quality Management Model for the Helpdesk 116
Electronic Helpdesk System Structure 120
Features of the helpdesk electronic system 120
Tiers and support levels 121
The electronic helpdesk system interface: forms, fields and requests 123
The helpdesk in Detail: Workflow and DFDs 128
The knowledgebase 141
6.2. BZU Helpdesk Model 142
BZU Helpdesk Call Management System 142
Tiers and Support Levels 143
The electronic helpdesk system interface: forms, fields and trouble tickets 145
Existing Workflows of BZU Helpdesk system 147
Analysis of benchmarking information 157
Performance Analysis 158
Policy Analysis 162
Structure Analysis 163
Process Analysis 163
6.3. Conclusion 172
7. CHAPTER 7: RECOMMENDATIONS AND IMPLICATIONS 175
7.1. Implications of Data Analysis 175
7.2. Helpdesk Strategic role 182
7.3. Helpdesk Environment 184
7.4. Contribution and Outcomes 187
A Road Map Solution for the Academic Helpdesk 187
8. REFERENCES 191
9. APPENDIX A: BZU USERS' SATISFACTION AND SERVICE QUALITY QUESTIONNAIRE 203
10. APPENDIX B: BZU HELPDESK STAFF JOB SATISFACTION QUESTIONNAIRE 208
11. APPENDIX C: CORRELATION MATRIX 211