# Table of Contents

Certificates
Plagiarism Report
Acknowledgement

List of Tables

List of Figures

List of Acronyms

## CHAPTER 1: INTRODUCTION

1.1 **Background** .......................................................................................................................... 1
1.1.1 Balance of Payments (BOP) ............................................................................................... 2
1.1.2 Foreign Direct Investments (FDI) ...................................................................................... 3
1.1.3 Indian Context ..................................................................................................................... 4
1.1.4 FDI Inflows in India in Post Reform Era ........................................................................... 4
1.1.5 Balance of Payments (BOP) Position ................................................................................ 5
1.1.6 FDI Inflows and Balance of Payments ........................................................................... 5

1.2 **Motivation: Why This Topic?** ............................................................................................ 6

1.3 **Epistemological Considerations** ........................................................................................ 7

1.4 **Research Gap** .................................................................................................................... 9

1.5 **Scope of the Study** .......................................................................................................... 9

1.6 **Research Design** ............................................................................................................. 10

1.7 **Research Methodology** .................................................................................................. 13

1.8 **Objectives of the Study** .................................................................................................. 13
1.8.1 General Objectives .......................................................................................................... 13
1.8.2 Specific Objectives ........................................................................................................... 13

1.9 **Hypotheses of the Study** ................................................................................................ 14

1.10 **Limitations of the Study** ................................................................................................ 14

1.11 **Tentative Outline of the Thesis** ...................................................................................... 14

## CHAPTER 2: CONCEPTUAL FRAMEWORK

2.1 **Introduction** ..................................................................................................................... 16
2.2 **Foreign Direct Investment (FDI)** .................................................................................... 16
2.2.1 Meaning of FDI .............................................................................................................. 16
2.2.2 FDI and Other forms of Capital Inflows ........................................................................ 17
2.2.3 Types of FDI .................................................................................................................... 18
2.2.4 Theories of FDI .............................................................................................................. 21
2.2.5 Macro Economic and Micro Economic Aspects of FDI ............................................. 22
2.2.6 Crowding-in and Crowding-out Impacts of FDI ...................................................... 23
2.2.7 Advantages of FDI for the Host Country .............................................................. 24
2.2.8 The Costs of FDI to Host Countries/ Disadvantages .......................................... 27
2.2.9 Government Policy Instruments and FDI ............................................................ 29
2.2.10 International Institutions and the Liberalization of FDI ...................................... 33
2.2.11 Discussion on the Pros and Cons of FDI ............................................................. 34

2.3 Balance of Payments ................................................................................................. 36
2.3.1 What kind of transactions are included in BOP? .................................................. 39
2.3.2 Components of Balance of Payments ................................................................. 40
2.3.3 Meaning of Current Account Balance ............................................................... 42
2.3.4 Balance of Payments Disequilibrium ................................................................. 44

2.4 FDI and the Balance of Payments ............................................................................ 45

2.5 Adverse Effects of FDI on the Balance of Payments ............................................. 45

CHAPTER 3: REVIEW OF LITERATURE

3.1 Introduction ................................................................................................................... 47
3.2 General Review ............................................................................................................. 47
3.3 Specific Review ............................................................................................................. 54
3.3.1 FDI Inflows and Current Account of Balance of Payments .................................... 54
3.3.2 FDI Inflows and Capital Account of Balance of Payments ....................................... 69
3.3.3 FDI Inflows and Overall Balance of Payments ..................................................... 73

CHAPTER 4: OVERVIEW AND TRENDS IN INDIA’S FDI INFLOWS AND BOP

4.1 Introduction .................................................................................................................. 78
4.2 FDI Inflows in India ................................................................................................... 78
4.2.1 Rules and Regulations Governing FDI Inflows in India .......................................... 80
4.2.1.1 Entities Eligible for FDI in India ................................................................. 80
4.2.1.2 Entities into which FDI can be made .......................................................... 80
4.2.1.3 Entry Routes and Sectoral Caps for FDI Inflows ......................................... 81
4.2.2 Trends in FDI Inflows in India .............................................................................. 90
4.2.2.1 FDI Inflows Trends in World, Developed Economies, Developing Economies and India ................................................................. 80
4.2.2.2 FDI Inflows Trends in Developing Economies in Asia, Emerging Markets in Asia and India ............................................................. 93
4.2.2.3 FDI Inflows Trends in BRICS, G-20 and India ............................................ 95
4.2.2.4 Share of Top Investing Countries FDI Inflows ............................................. 97
4.2.2.5 Sectors Attracting Highest FDI Inflows in India ............................................ 98
4.3 Balance of Payments Position in India ................................................................. 99
  4.3.1 Provisions of BPM6 Adopted by RBI for BOP Compilation and Reporting .... 101
  4.3.2 Trends in Current Account of India’s Balance of Payments ......................... 102
    4.3.2.1 Components of Current Account of India’s Balance of Payments .......... 103
  4.3.3 Trends in Capital Account of India’s Balance of Payments ......................... 113
    4.3.3.1 Components of Capital Account of India’s Balance of Payments .......... 114

CHAPTER 5: RESEARCH METHODOLOGY

5.1 Introduction ........................................................................................................ 119

5.2 Sample Period, Data Description and Data Sources ........................................ 119
  5.2.1 Sample Period .................................................................................................. 119
  5.2.2 Data Description ............................................................................................... 119
  5.2.3 Data Sources .................................................................................................... 121

5.3 Research Hypotheses ......................................................................................... 121
  5.3.1 FDII and CAB .................................................................................................. 121
    5.3.1.1 FDII and CAB in Long Run ................................................................. 121
    5.3.1.2 FDII and CAB in the Short Run ......................................................... 122
  5.3.2 FDII and KAB .................................................................................................. 122
    5.3.2.1 FDII and KAB in Long Run ................................................................. 122
    5.3.2.2 FDII and KAB in the Short Run ......................................................... 122

5.4 Econometric Methodology ................................................................................. 123
  5.4.1 White Noise .................................................................................................... 123
  5.4.2 Stationarity ....................................................................................................... 123
  5.4.3 Differencing ..................................................................................................... 124
  5.4.4 Deterministic Trend ......................................................................................... 124

5.5 Univariate Analysis ............................................................................................. 124
  5.5.1 Unit Root Tests ................................................................................................. 125
    5.5.1.1 Augmented Dicky Fuller (ADF) Test ................................................. 126
    5.5.1.2 KPSS Test ............................................................................................... 127
    5.5.1.3 Combining ADF and KPSS .................................................................. 128
    5.5.1.4 Dickey-Fuller Test with GLS ............................................................... 129
    5.5.1.5 The Phillips-Perron (PP) Test ................................................................. 130
    5.5.1.6 Unit Root for Structural Change/ Breakpoint Unit Root Test ............ 130
    5.5.1.7 Diagnostics of Residuals ....................................................................... 132
    5.5.1.8 Information Criteria .............................................................................. 132

5.6 Multivariate Analysis ......................................................................................... 132
  5.6.1 Vector Auto Regression Model ................................................................. 133
5.6.1.1 Stability and Stationarity of VAR Models ......................................................... 134
5.6.1.2 Estimation of a VAR Model .................................................................................. 135
5.6.2 Granger Causality .................................................................................................... 136
  5.6.2.1 Toda and Yamamoto Approach to Granger Causality ...................................... 137
5.6.3 Quantile Regression ................................................................................................. 138
  5.6.3.1 Model of Quantile Regression ........................................................................... 139
  5.6.3.2 Slope Equality Testing ....................................................................................... 140
  5.6.3.3 Quantile Process Estimates (Process Coefficients) ............................................ 140
5.6.4 Two Stage Least Squares Regression (TSLS) .......................................................... 140

CHAPTER 6: ECONOMETRIC ANALYSIS AND INTERPRETATION

6.1 Introduction .................................................................................................................... 142
6.2 Impact of FDI Inflows (FDII) on Current Account Balance (CAB) of India’s Balance of Payments ................................................................. 142
  6.2.1 Univariate Analysis ................................................................................................... 142
    6.2.1.1 Finding Short Run Period (Bai-Perron Test) ..................................................... 150
    6.2.1.2 Univariate Analysis of FDII and CAB in the Short Run Period ...................... 153
  6.2.2 Multivariate Analysis ............................................................................................... 161
    6.2.2.1 Multivariate Analysis in Long Run Period ....................................................... 161
    6.2.2.2 Multivariate Analysis in Short Run Period ...................................................... 169
6.3 Impact of FDI Inflows (FDII) on Capital Account Balance (KAB) of India’s Balance of Payments ................................................................. 174
  6.3.1 Univariate Analysis ................................................................................................... 174
    6.3.1.1 Finding Short Run Period (Bai-Perron Test) ..................................................... 177
    6.3.1.2 Univariate Analysis of FDII and KAB in the Short Run Period ...................... 179
  6.3.2 Multivariate Analysis ............................................................................................... 185
    6.3.2.1 Multivariate Analysis in Long Run Period ....................................................... 186
    6.3.2.2 Multivariate Analysis in Short Run Period ...................................................... 193
6.4 Summary of the Hypotheses ....................................................................................... 203

CHAPTER 7: FINDINGS, CONCLUSION AND SUGGESTIONS

7.1 Introduction .................................................................................................................... 204
7.2 Findings of the Study ..................................................................................................... 204
  7.2.1 Findings related to General Objective 1 ................................................................. 204
  7.2.2 Findings related to General Objective 2 ................................................................. 205
  7.2.3 Findings related to General Objective 3 ................................................................. 205
    7.2.3.1 Trends in FDI Inflows in India .......................................................................... 206
    7.2.3.2 Trends in Current Account of India’s BOP ........................................................ 207
7.2.3.3 Trends in Capital Account of India’s BOP ........................................................ 208
7.2.4 Findings related to Specific Objective 1 ............................................................... 209
7.2.5 Findings related to Specific Objective 2 ............................................................... 209
7.2.6 Findings related to Specific Objective 3 ............................................................... 210
7.2.7 Findings related to Specific Objective 4 ............................................................... 210
7.3 Conclusion .............................................................................................................. 211
7.4 Suggestions ............................................................................................................ 212
  7.4.1 General Suggestions ......................................................................................... 212
  7.4.2 Specific Suggestions ......................................................................................... 213
7.5 Limitations of the Study ......................................................................................... 214
7.6 Direction for Future Research .............................................................................. 214
References .................................................................................................................. 216
Annexures ................................................................................................................. 246