CONTENTS

S.NO	NAME OF THE CONTENTS	PAGE NO
	Abstract	i
1.	Introduction	1
2.	What is IOT	1
3.	Why IOT for Agriculture	2
4.	Concept of Smart Farming	2
5.	Role of IOT in Agriculture	3
5.1	Water Management	4
5.2	Crop Monitoring	5
5.3	Soil Management	5
5.4	Control of Insecticides and Pesticides	6
6.	Ways IOT can Transform Agriculture	7
6.1	Efficient Scaling	7
6.2	Better Quality	7
6.3	Be in Control	7
6.4	Data Collection	8
6.5	Manage the Costs	8
7.	Farming Analysis & Major Functionality	8
7.1	Real-time Data	8
7.2	Real-time Surveillance	8
7.3	Data Storage	8
7.4	Data Analysis	8
7.5	Remote Control	9
7.6	Intelligent Decision	9
8.	Challenges of IOT in Agriculture	9
8.1	The Brain	9
8.2	The Hardware	9

8.3	The Maintenance	10
8.4	The Mobility	10
8.5	The Infrastructure	11
8.6	The Connectivity	11
9.	Case Studies of IOT in Agriculture	12
9.1	Monitoring of Climatic Conditions	12
9.2	Greenhouse Automation	13
9.3	Cattle Monitoring and Management	13
10.	PPT Slides	14
11.	Conclusion	25
12.	References	25
13.	Annexure	27

LIST OF FIGURES

S.NO	NAME OF THE CHAPTER	PAGE NO
1.	Smart Farming	3
2.	Role of IOT in Agriculture	4
3.	Water Management	4
4.	Crop Monitoring	5
5.	Soil Management	6
6.	Control of Pesticides and Insecticides	7
7.	Ways IOT can Transform Agriculture	7
8.	Farming Analysis and Major Functionality	8
9.	The Brain	9
10.	The Hardware	10
11.	The Maintenance	10
12.	The Mobility	11
13.	The Infrastructure	11
14.	Internet Connections	12
15.	Monitoring of Climatic Conditions	12
16.	Greenhouse Automation	13
17.	Cattle Monitoring and Management	14
18.	Arduino UNO R3	26
19.	Moisture Sensor	26
20.	Moisture Sensor in Dry Soil	27
21.	Moisture Sensor in 100% Moist Conditions	27