

CONTENT

INTRODUCTION OF THE AUTHOR	4
1 INTRODUCTION TO THE TOPIC: THE IMPORTANCE OF PLASTICS	7
2 PLASTIC DEMAND AND PLASTIC WASTE MANAGEMENT	7
2.1 THE CIRCULAR ECONOMY OF PLASTICS.....	8
3 BIO-BASE RESEARCH AND INNOVATION	9
4 BIOPOLYMERS	10
4.1 BIODEGRADABLE POLYMERS.....	12
4.1.1 Polylactide (PLA).....	12
4.1.1.1 Modification of PLA.....	13
4.1.2 Polyhydroxyalkanoates (PHA).....	18
4.1.2.1 PHA's applications.....	24
5 SUMMARY.....	27
6 SHRNUTÍ.....	27
REFERENCES	29
ABSTRACT	31
ABSTRAKT	31