ZEAL COLLEGE OF ENGINEERING AND RESEARCH

DEPARTMENT OF COMPUTER ENGINEERING

Engineering Thermoplastics (Polycarbonate)

Name of student: Priya Dhumal **Roll no:** CO1316 **Div.:** C

Introduction

Polymers, long known for their use in plastics, have found an increasing range of applications in electronics And physical devices due to their unique properties. These materials, mad of long chains of repeating molecular units, offer flexibility, lightweight characteristics, and ease of processing, making them ideal candidates for various electronic and mechanical application.

Application

Applied where flame and heat resistant and tough and transparent properties are needed for optical storage devices such as CDs, DVDs, and HD-DVDs. It can be used as a photoresist polymer Ph-P.
Applied where heat resistance and flexible electrical insulating and packaging properties are required.

Conclusion

The applications of polymers in electronics and physical devices are vast and divers, ranging from energy-efficient displays and solar cells to wearable sensors, smart packaging, and self-healing materials. As research continues, polymers are expected to play an increasingly important role in the development of next-generation technologies, contributing to advancements in sustainability, healthcare, and consumer electronics.