

# **A Brief Review on 3D Printing in Pharmacy**

**Sonaji Balu Farande, Ashok Ramesh Divate, Vaishnavi Vijay Jambhulkar, Archana T. Chaskar**

Sahakar Maharshi Kisanrao Varal Patil College of Pharmacy, Nighoj

sonajifarande123@gmail.com, ashokdivate764@gmail.com, jambhulkarvaishnavi5@gmail.com

**Abstract:** *3D printing, also known as additive manufacturing, has gained significant attention in the pharmaceutical industry due to its potential to revolutionize drug development and delivery. This technology allows for the creation of complex drug formulations, personalized dosage forms, and customized drug release profiles. By printing medications layer by layer, 3D printing offers precision in design, scalability in production, and the possibility for on – specific doses, enhance bioavailability, and improve the convenience and compliance of drug regimens. However, challenges such as regulatory hurdles, material limitations, and the need for standardized quality control processes remain. Despite these obstacles, 3D printing holds great promise for the future of pharmaceutical manufacturing, making it a promising area of research and innovation in personalized medicine.*

**Keywords:** *3D printing*

