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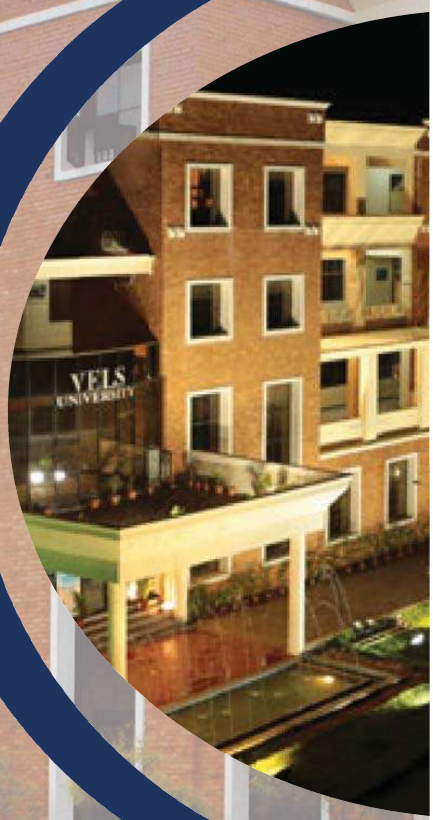

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APP ABSTRACT - APP 2026 - 262

DESIGN AND NOVEL SYNTHESIS OF SCHIFF BASE DERIVATIVE FOR ANTI VIRAL ACTIVITY

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Abstract:
Schiff base derivatives are widely recognized for their significant biological activities, including antiviral properties. The present study focuses on the design and novel synthesis of a Schiff base derivative aimed at evaluating its antiviral potential. The compound was synthesized via condensation reaction between a selected aldehyde and primary amine under optimized reaction conditions. The synthesized derivative was purified and characterized using various analytical techniques such as UV-Visible spectroscopy, Infrared (IR) spectroscopy, and Nuclear Magnetic Resonance (NMR) analysis to confirm its structure. The antiviral activity of the synthesized compound was assessed against selected viral strains using standard in vitro methods. The indicated notable inhibitory activity, suggesting its effectiveness in preventing viral replication. The structure–activity relationship highlights the importance of functional groups in enhancing antiviral efficacy. Overall, this study suggests that the newly synthesized Schiff base derivative holds promise as a potential lead compound for further development of safe and effective antiviral agents.

Keywords: Schiff base derivatives, Antiviral activity, Novel synthesis, Condensation reaction, Spectroscopic characterization, Structure–activity relationship, Drug design, In vitro studies