**CERTIFICATE**

Its gives me immense pleasure in certifying that the thesis entitled **“Study, Analysis and Design of Adaptive Software Algorithms for Applied Automated System Development and Testing Patterns in the Area of High Performance Run Time Dynamic Storage in Network Cloud Environment”** and submitted by **Vikas Kumar Choudhary**, is based on the work research carried out under my guidance.

He/ She has completed the following requirements as per Ph.D. regulations of the University;

1. Course work as per university rules.
2. Regularly presented Half Yearly Progress Report as by prescribed the University.
3. Published/ accepted minimum of two research paper in a refereed research journal.

I recommend the submission of thesis as prescribed/ notified by the University.

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| **Date:** | **Dr. Dilendra Hiran**  **Principal**  **Faculty of Computer Application**  **Pacific Univeristy** |

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| **Date:** | **Prof. Sanjay Chaudhary**  **Dean, Faculty of Engineering & Technology**  **Madhav University, Sirohi (Raj).** |