

# **CERTIFICATE**

This is to certify that the dissertation “QUANTUM DOTS LASER AND CHARACTERISTICS PROPERTIES OF GaAs based QDL” is based on the original work done by **Gourav Sahu** (Enrollment no. GGV/16/7060) Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur and this has not previously formed the basis of the award of any degree, diploma, associate ships and any other similar title and it represent entirely an independent work of the candidate.

Place-Bilaspur

Date-

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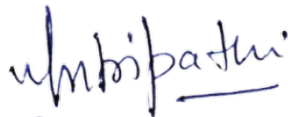
Forwarded to the controller of examination, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur in partial fulfillment of the degree of Master of Science in Physics.

Place- Bilaspur

Date-

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