



**Department of Pure & Applied Physics**

**Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) India**

(A central University Established by the Central Universities Act 2009 No.25 of 2009)

**CERTIFICATE**

This is to certify that the project titled “X-Ray Diffraction by crystal” Submitted by **AKASH KUMAR TEKAM** in the partial fulfilment for the degree of Bachelor of Science in Physics is an authentic work carried out by him under my supervision and guidance.

To the best of my knowledge, the matter embodied in the project report has not been submitted to any other University \ Institute for the award of Degree or Diploma.

Date:

**Dr . Arun Kumar Singh**

Department of pure & Applied Physics

Guru Ghasidas Vishwavidyalaya, koni Bilaspur,

495009 (C. G), India