

**DEPARTMENT OF PHYSICS AND ELECTRONICS**  
**DOCTOR HARISINGH GOUR UNIVERSITY, SAGAR (M.P.) 470 003**

***Prof. R. S. Kasana***  
M.Sc., Ph.D., D.Sc., M.Tech



**B-1, Gour Nagar**  
**Sagar 470 003 (M.P.)**  
**Mobile: 09425671305**

Date: .....

**CERTIFICATE OF THE SUPERVISOR**

This is to certify that the work entitled **LASER REFRACTOMETRY BY USING INTERFEROMETRIC TECHNIQUES** is a piece of research work done by **Mr. Arvind Kumar Deshmukh**, under my guidance and supervision for the degree of Doctor of Philosophy of Doctor Hari Singh Gour University, Sagar (M.P.) India. That the candidate has put-in an attendance of more than 365 days with me.

To the best of my knowledge and belief the thesis:

- (i) embodies the work of the candidate herself ;
- (ii) has duly been completed ;
- (iii) fulfills the requirements of the ordinance relating to the Ph.D. degree of the University; and
- (iv) is up to the standard both in respect of contents and language for being referred to the examiner.

**Prof. R. S. Kasana**  
**Supervisor**

**Forwarded**

**Head**  
**Department of Physics & Electronics**  
**Dr. H.S. Gour University, Sagar (M.P.)**