



HBTU Kanpur

**Harcourt Butler Technical University Kanpur**  
**(E-Certificate)**

**100** YEARS  
1921-2021

**Webinar**

on

**“Synthesis, Characterization and Applications of Nano-Materials”**

(Speaker)

**Prof. Balak Das**

(Department of Physics, University of Lucknow, Lucknow)

**CERTIFICATE OF PARTICIPATION**

This is to certify that **Dr. D. Arumugam** from **Invertis University Bareilly** has virtually participated in the webinar organized by Departments of Physics, School of Basic and Applied Sciences, Harcourt Butler Technical University Kanpur, India on October-28, 2021.

**Prof. R.K. Shukla**  
(Convener & Head, Department of Physics)

**Dr. S.K. Sharma**  
(Convener)

**Prof. Ram Autar**  
(Dean, School of Basic & Applied Sciences)

Registrar  
Invertis University  
Bareilly