



SEVEN DAY INTERNATIONAL WEBINAR  
 on  
**“ Survival Strategies for Post COVID - 19 Era :  
 Perspectives from Science , Technology & Social Science ”**

20 - 26 MAY, 2020  
 Jointly organized by  
 Department of Physics, ECC , Prayagraj

Indian Association of Physics Teachers ( IAPT ), RC-04 , Uttar Pradesh  
**Certificate of Participation**

This is to certify that Mr./Ms./Dr. RAJESH KUMAR SHUKLA OF UNIVERSITY OF LUCKNOW has participated in the Seven Day International Webinar on “Survival Strategies for Post COVID -19 Era : Prospectives from Science , Technology & Social Science” organized by Department of Physics, Ewing Christian College (An Autonomous constituent P.G. College of Allahabad University) in Association with Indian Association of Physics Teachers ( IAPT ).  
 RC-04(U.P),India.

  
 Dr. ARUN S MOSES  
 PRINCIPAL, ECC  
 WEBINAR CHAIRMAN

  
 Dr. R K DWIVEDI  
 PRESIDENT  
 IAPT RC-04 (I.P.)

  
 Dr. ANIL KUMAR SINGH  
 HOD, DEPT OF PHYSICS  
 WEBINAR CONVENOR

  
 Dr. PREM PRAKASH SINGH  
 DEPT OF PHYSICS  
 WEBINAR ORGANISING SECRETARY



मजल्लु मल्ललकल कुल  
मल्ललकल मल्ललकल, मल्ललकल

**M.J.P. Rohilkhand University Bareilly**

- In Association With  
**IIT Roorkee**



**CERTIFICATE OF PARTICIPATION**

We hereby recognize

**RAJESH KUMAR SHUKLA**

**UNIVERSITY OF LUCKNOW**

for attending webinar cum workshop on  
“Performing and Designing experiments on virtual platform”  
during 8th June to 17th June, 2020.

Prof. M. S. ALFEM KHAN

COORDINATOR,  
MUPRL, BAREILLY

Prof. ARCHANA GUPTA

CONVENER  
MUPRL, BAREILLY

Prof. R. S. ANAND

COORDINATOR, VIRTUAL LAB  
IIT ROORKEE



**Virtual  
Labs**

6.3.4/31

## ***Certificate of Participation***

to

**Rajesh Kumar Shukla**


from

**University of Lucknow**

*for his active and invaluable participation in a five-days Webinar Series on "Advances in Materials Science and Technology (WSAMST-2020)" held during 22-26 June 2020 by the Department of Applied Sciences and Humanities (Physics), School of Engineering, University of Petroleum and Energy Studies, Dehradun.*

  
Santosh Dubey

(Convener)

  
Sachin Pathak

(Co-convener)

  
Ratnesh K Pandey


(Co-convener)

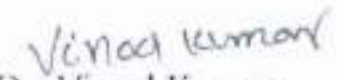


# Certificate of Participation



This is to certify that Prof./Dr./Mr./Ms. AMARENDRA KUMAR participated in one day IUAC Acquaintance Programme, New Delhi held at Department of Physics, University of Lucknow, on 19<sup>th</sup> September 2018.

  
Dr. R. P. Singh  
Convener  
IUAC, New Delhi

  
Dr. Vinod Kumar  
Local Convener  
University of Lucknow

6.3.4/42

# CERTIFICATE OF PARTICIPATION

University Grants Commission  
Human Resource Development Centre  
(HRDC)



UNIVERSITY OF LUCKNOW  
UGC Sponsored Short Term Course

This is to Certify that Dr. Amarendraya Kumar Asst. Prof.  
(Name of the person) (Designation)

Deptt. of Physics, University of Lucknow, Lucknow,  
(College/University) (Place)

affiliated to University of Lucknow, Lucknow, (UP)

participated in the Short Term Course in Research Methodology

from Sept. 20 to Sept. 26, 2019 and obtained grade A

R. Saini  
Director

PERMANENT REGISTRATION NO.: 1742

Arshwale  
Registrar/Vice-Chancellor

6.3.4/43



**WORKSHOP**  
**on**



**High Performance Computing (HPC)**

05-09 August, 2019

*Certificate of Participation*

*This is to certify that*

*Dr. Amarendra Kumar*

University of Lucknow, Lucknow

*has participated in the*

*Workshop on High Performance Computing (HPC)*

*Organized by Physics Department, University of Lucknow*

Date : August 09, 2019

Place : Lucknow

*Poonam*

**Prof. Poonam Tandon**  
Head, Physics Department  
University of Lucknow



# Certificate



This is to certified that **Dr. Vinod Kumar** has participated as a *Local Convener* in one day Acquaintance Programme IUAC, New Delhi held at Department of Physics, University of Lucknow, on 19<sup>th</sup> September 2018.

A handwritten signature in black ink, which appears to read 'R. P. Singh', is written above the printed name.

Dr. R. P. Singh  
Convener  
IUAC, New Delhi

6.3.4/45

**CERTIFICATE  
OF PARTICIPATION**

**University Grants Commission  
Human Resource Development Centre  
(HRDC)**



**UNIVERSITY OF LUCKNOW  
UGC Sponsored Orientation Programme**

This is to Certify that Dr. Bhupesh Kumar Asst. Prof.  
(Name of Participant) (Designation)  
Dept. of Physics, University of Lucknow, Lucknow, UP.  
(College/University) (Place)  
affiliated to University of Lucknow, Lucknow, UP (University)  
participated in the Orientation Programme 127  
from Nov-21 to 23, 2017 and obtained grade A

Director

Registrar/Coordinator

PERMANENT REGISTRATION NO. 37114

6.3.4/46

**CERTIFICATE  
OF PARTICIPATION**

**University Grants Commission  
Human Resource Development Centre  
(HRDC)**



**UNIVERSITY OF LUCKNOW**  
UGC Sponsored Refresher Course

Presented by: Dr. Dharendra Kumar Asst. Prof.  
(Chair of Professor) (Department)

Deptt. of Physics, University of Lucknow, Lucknow

affiliated to University of Lucknow, Lucknow, (UP)

participated in the Refresher Course in the Subject Research Methodology (II)

from Dec. 10 to Dec. 31, 2018 and obtained grade A

Rod  
Director  
PERSONAL REGISTRATION NO. 4635

S. Chandra  
Coordinator

Anubha  
Registrar/Vice-Chancellor

6.3.4/47

**CERTIFICATE  
OF PARTICIPATION**

**University Grants Commission  
Human Resource Development Centre  
(HRDC)**



**UNIVERSITY OF LUCKNOW  
UGC Sponsored Orientation Programme**

This is to Certify that..... Dr. Anam Singh..... Asst. Prof......  
(Name of Participant) (Designation)  
Deptt of Physics, University of Lucknow, Lucknow, UP.....  
(College/University) (Place)  
affiliated to..... University of Lucknow, Lucknow, UP.....  
University  
participated in the Orientation Programme..... 12.6.....  
from..... July 03 to July 31, 2017..... and obtained grade..... A.....

Ram  
Director

29/7/2017  
Registrar/Vice-Chancellor

PERMANENT REGISTRATION NO.: 3642

6.3.4/48  
Registration No. : RC-Physics/ 2019-20/ 21



# University Grants Commission

Human Resource Development Centre (HRDC)

Patna University, Patna



UGC-Sponsored Refresher Course in Physics

Organized By Department of Physics, Patna University, Patna



ज्ञान विज्ञानं विमुक्तये

This is to certify that Anar Singh, Assistant Professor

Department of Physics, University of Lucknow, Lucknow

*participated in the*

*Refresher Course in Physics held from 13/01/2020 to 25/01/2020, and obtained Grade A+(A=plus)*

*Chandrama Singh*

(Professor Chandrama Singh)  
Director

UGC-Human Resource Development Centre  
Patna University, Patna

*Surabhi Prasad*  
(Dr. Surabhi Prasad)  
HOD & Co-Ordinator

*Rash Bihari Pd. Singh*  
(Professor Rash Bihari Pd. Singh)

Vice Chancellor  
Patna University,  
Patna

Patna, Saturday, the 25<sup>th</sup> of January, 2020

(ANNEXURE- 6.3.4)

CERTIFICATE  
OF PARTICIPATION

University Grants Commission  
Human Resource Development Centre  
(HRDC)



UNIVERSITY OF LUCKNOW  
UGC Sponsored Refresher Course

This is to certify that Dr. Anand Ballabh Joshi Asst. Prof.  
(Name of Participant) (Designation)

Deptt. of Mathematics & Astronomy, University of Lucknow, Lko.  
(College/university) (Place)

affiliated to University of Lucknow, Lucknow, (UP)

participated in the Refresher Course in the Subject Maths, Statistics, Com. Sci. & Astronomy

from Jan. 02 to Jan. 23, 2019 and obtained grade A

R. Sanjiv  
Director

Pankaj Katiyar  
Co-ordinator

Sudhakar  
Registrar/Vice-Chancellor

PERMANENT REGISTRATION NO. 4678

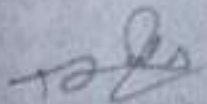


NATIONAL WORKSHOP ON CRYPTOLOGY  
(5-7, September 2018)



CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Mrs/Ms /Dr. Anand Joshi  
of UP University of Lucknow has successfully participated in the  
three day 'National Workshop on Cryptology (NWC-2018)' organized by CR Rao Advanced Institute of Mathematics, Statistics  
and Computer Science (AIMSCS) in association with Cryptology Research Society of India (CRSI), from 5<sup>th</sup> to 7<sup>th</sup> September 2018  
at CR Rao AIMSCS, University of Hyderabad Campus, Hyderabad.

  
Dr. Appala Naidu Tentu  
Convener  
NWC-2018

  
Prof. D. N. Reddy  
Chairman  
NWC-2018



सि १ - विद्यया ऽ विद्यते

University Grants Commission  
Human Resource Development Centre  
Kumaun University, Nainital (Uttarakhand)



UGC - Sponsored Orientation Programme

This is to certify that

Dr. Anand Ballabh Joshi

Assistant Professor

(Name of the participant)

(Designation)

Dayalbagh Educational Institute

Agra (U.P.)

(College/University)

(Place)

affiliated to

Deemed

University

participated in the Orientation Programme

O.P. -30

from 04/04/2015

to 02/05/2015

and obtained Grade

'A'

*Be tal*  
Director

*Be tal*  
Coordinator

*Be tal*  
Registrar/Vice-Chancellor

Winter School  
on  
**Interplay between Statistics and Cryptology**

1 - 5 December 2014



Organized by  
**Applied Statistics Unit  
Indian Statistical Institute**

**Certificate of Participation**

Presented to ANAND BALLABH JOSHI of *Dayalbagh Educational Institute*.

*Mridul Nandi*

**Mridul Nandi**  
Course Coordinator  
Applied Statistics Unit

*Tapas Samanta*

**Tapas Samanta**  
Head  
Applied Statistics Unit



NWC<sup>14</sup>



# NATIONAL WORKSHOP ON CRYPTOLOGY

## *Certificate of Participation*

This is to certify that

**Dr. Anand Ballabh Joshi**

has participated in the

National Workshop on Cryptology

under the Aegis of Cryptology Research Society of India

organized by

**PDPM Indian Institute of Information Technology, Design & Manufacturing Jabalpur**

**September 25 - 27, 2014**

**Director**

PDPM IIITDM Jabalpur

**Coordinator**

NWC 2014



# S. V. National Institute of Technology

Surat - 395007, Gujarat, India

TEQIP-II Sponsored

Short Term Training Programme on

## Fractional Calculus, Integral Transforms, Special Functions and their Computations in Engineering and Sciences (FCITSFTCES-2015)

### CERTIFICATE

This is to certify that DR. Anand Ballabh Joshi of  
D.E.I. (Deemed Univ.), Agra (U.P.) has ~~Participated/ Presented/ delivered~~ = invited  
talk in the TEQIP-II sponsored one week Short Term Training program on 'Fractional Calculus,  
Integral Transforms, Special Functions and their Computations in Engineering and  
Sciences (FCITSFTCES-2015)' organized by Department of Applied Mathematics & Humanities,  
Sardar Vallabhbhai National Institute of Technology, Surat during Sep. 30 - Oct. 04, 2015.  
The title(s) of talk(s)/ paper is/ are Cryptography and Image Encryption and  
decryption.

*Vishnu Narayan Mishra*  
Dr. V. N. Mishra  
Coordinator, FCITSFTCES-2015

# University Grants Commission Human Resource Development Centre (HRDC)



## UNIVERSITY OF LUCKNOW

UGC Sponsored Refresher Course

This is to certify that..... Dr. Midhi Pandya..... Asst. Prof.  
(Name of Participant) (Designation)

Deptt. of Mathematics & Astronomy, University of Lucknow, UK  
(College/university) (Place)

affiliated to..... University of Lucknow, Lucknow, (UP).....

participated in the Refresher Course in the Subject Maths, Statistics, Com. Sc. & Astro  
UNIVERSITY

from..... Jan. 02..... to..... Jan. 23, 2019..... and obtained grade..... A.....

R. S. Singh  
Director

Sanku Man  
Co-ordinator

Ashutosh  
Registrar/Vice-Chancellor

# CERTIFICATE OF PARTICIPATION

CERTIFICATE

OF PARTICIPATION

University Grants Commission  
Human Resource Development Centre  
(HRDC)



UNIVERSITY OF LUCKNOW  
UGC Sponsored Short Term Course

This is to Certify that..... Dr. Nidhi Pandya ..... Asstt. Prof.  
(Name of Participant) (Designation)  
Deptt. of Mathematics & Astronomy, University of Lucknow, LKO  
(College/University) (Place)  
Participated in the Short Term Course in Innovative Teaching & Evaluation Strategie  
affiliated to..... University of Lucknow, Lucknow, UP .....  
from..... July 12 ..... to..... July 18, 2016 ..... (one week)  
and presented paper entitled..... Slow Rotation of a Partially immersed  
Body in a liquid with a Surfactant ..... and obtained Grade..... A  
layer

R. S. Singh  
Director

[Signature]  
Registrar/Vice-Chancellor

PERMANENT REGISTRATION NO..... 1116 .....

# CERTIFICATE OF PARTICIPATION

University Grants Commission  
Human Resource Development Centre  
(HRDC)



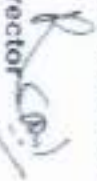
UNIVERSITY OF LUCKNOW  
UGC Sponsored Short Term Course

This is to Certify that Dr. Nidhi Pandya Asst. Prof.  
(Name of Participant) (Designation)

Deptt. of Maths & Astronomy, University of Lucknow, Lucknow  
(College/University) (Place)  
Participated in the Short Term Course in Personality Development

from August 22 to August 28, 2015 (one week)  
and presented paper entitled "Application of Mathematical Modeling

in Population Dynamics" and obtained Grade A

Director 

Registrar  & Vice-Chancellor

**CERTIFICATE  
OF PARTICIPATION**

University Grants Commission  
Human Resource Development Centre  
(HRDC)



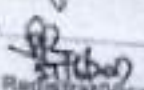
UNIVERSITY OF LUCKNOW  
UGC Sponsored Short Term Course

This is to Certify that Dr. Rekha Sainvastava (Name of Participant) Asst. Prof. (Designation)  
Dept. of Mathematics, University of Lucknow, Lucknow (Institution/University) (Place)

Participated in the Short Term Course in Research Methodology  
affiliated to University of Lucknow, Lucknow, UP  
from June 15 to June 21, 2017 (one week)

and presented paper entitled "An Interpolation Process On Laguerre  
Polynomial" and obtained Grade A

  
Director

  
Registrar/Vice-Chancellor

PERMANENT REGISTRATION NO 1321

**CERTIFICATE  
OF PARTICIPATION**

**University Grants Commission  
Human Resource Development Centre  
(HRDC)**

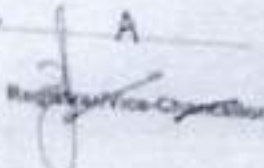


**UNIVERSITY OF LUCKNOW**  
UGC Sponsored Short Term Course

This is to certify that Dr. Rekha Srivastava (Name of Beneficiary) Asst. Prof. (Designation)  
Deptt. of Mathematics & Astronomy, University of Lucknow, Lko (College/University)  
participated in the Short Term Course in Personality Development  
from August 22 to August 28, 2015 (one week)  
and presented paper entitled "Integral Equations"

  
Director

PERMANENT REGISTRATION NO. 744

and obtained grade A  
  
Registrar/In-charge Officer

**CERTIFICATE  
OF PARTICIPATION**

University Grants Commission  
Human Resource Development Centre  
(HRDC)



UNIVERSITY OF LUCKNOW  
UGC Sponsored Short Term Course

This is to Certify that Dr. Rekha Srivastava (Name of Participant) Asstt. Prof. (Designation)  
Deptt. of Mathematics & Astronomy, University of Lucknow, LKO (College/University) (Place)

participated in the Short Term Course in Assistant Prof. Grade 3-4  
affiliated to University of Lucknow, Lucknow, UP  
from November 04 to 10, 2016 (one week)

and presented paper entitled Lacunary Interpolation on Interval and obtained Grade A  
R. G. Singh Director Registrar/Vice-Chancellor

PERMANENT REGISTRATION NO. 1178

University Grants Commission  
Human Resource Development Centre  
(HRDC)



UNIVERSITY OF LUCKNOW  
UGC Sponsored Short Term Course

This is to Certify that Dr. Vineet Kumari Verma Asst. Prof.  
(Name of Participant) (Designation)  
Deptt. of Mathematics, University of Lucknow, Lucknow  
(College/University) (Place)  
Participated in the Short Term Course in Gender Sensitization  
affiliated to University of Lucknow, Lucknow, (UP)  
from Nov. 14 to Nov. 20, 2018 (one week)  
and presented paper entitled 'Causes of Gender Inequality in India'

and obtained Grade

Excellent A  
Registrar/Vice-Chancellor

  
Director

PERMANENT REGISTRATION NO 1539

CERTIFICATE  
OF PARTICIPATION

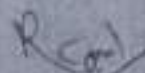
# CERTIFICATE OF PARTICIPATION


## University Grants Commission Human Resource Development Centre (HRDC)

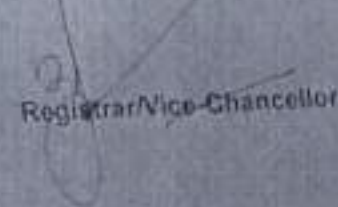


### UNIVERSITY OF LUCKNOW UGC Sponsored Refresher Course

This is to Certify that Dr. Vineet Kumar Verma Asstt. Prof.  
(Name of Participant) (Designation)  
Deptt. of Mathematics & Astronomy, University of Lucknow, Lko  
(College/University) (Place)  
affiliated to University of Lucknow, Lucknow University  
participated in the Refresher Course in the subject Information Technology (IT)  
from March 02 to 25, 2015 and obtained grade A

  
Director

  
Coordinator

  
Registrar/Vice-Chancellor

PERMANENT REGISTRATION NO: 3911

CERTIFICATE  
OF PARTICIPATION

University Grants Commission  
ACADEMIC STAFF COLLEGE



UNIVERSITY OF LUCKNOW  
UGC Sponsored Refresher Course

This is to certify that

Dr. Vineet Kumar Verma  
(Name of Participant)  
Deptt of Mathematics & Astronomy, University of Lucknow, Lko.  
(College/University)

Asstt Prof  
(Designation)  
(Place)

Participated in the Refresher Course in the Subject Mathematics

held from February 14 to March 07, 2014

and Obtained Grade A

Course Coordinator

Director

Registrar/Vice-Chancellor



# National Centre for Mathematics

[www.atmschools.org](http://www.atmschools.org)

(A joint centre of TIFR and IIT Bombay)



## Instructional School for Lecturers on "Geometric Topology"

(July 07 - 19, 2014)

DST-CENTRE FOR INTERDISCIPLINARY MATHEMATICAL SCIENCES, FACULTY OF SCIENCE  
BANARAS HINDU UNIVERSITY, VARANASI-221005



## Certificate

*This is to certify that Dr. Shyam Kishor, University of Lucknow, Lucknow has participated in the Instructional School for Lecturers on "Geometric Topology" organized at DST-CIMS, Banaras Hindu University, Varanasi-221005, during July 07 - 19, 2014.*

Umesh Singh  
Coordinator, DST-CIMS

B. Tiwari  
Co-organizer

M. M. Tripathi  
Co-organizer

C. S. Aravinda  
Co-organizer



# EMPANELLED TRAINING INSTITUTE (ETI)



(A Training Institute for NSS Programme Officers)  
ST. JOHN'S COLLEGE, AGRA

Accredited by  
THE MINISTRY OF YOUTH AFFAIRS & SPORTS  
GOVERNMENT OF INDIA

## CERTIFICATE

This is to certify that DR. SHYAM KISHOR Programme Officer  
of University Of Lucknow, Lucknow attended Seven Days' NSS Training and Orientation  
Programme from 26<sup>th</sup> January 2014 to 1<sup>st</sup> February, 2014 at St. John's College, Agra.

(Dr. C.M. Jain)  
Training Coordinator, ETI

(Dr. Alexander Lall)  
Principal

**CERTIFICATE**

**OF PARTICIPATION**

# University Grants Commission

## ACADEMIC STAFF COLLEGE

University of Lucknow



UGC Sponsored Special Summer/Winter School

This is to certify that Dr. Shyam Kishor ..... Asstt. Prof. .....  
(Name of Participant) (Designation)  
Deptt. of Mathematics & Astronomy University of Lucknow, U.K. and  
(College/university) (Place)  
Subject Maths ..... Participated in the Special Summer/Winter School-Orientation  
Programme/Refresher Course held from February 05 to 25, 2014 .....  
and obtained Grade A .....

  
Director

  
Registrar/Vice-Chancellor

Permanent Registration No.: 0165 .....  
Ref. UGC Letter No.-F-24-1/2012(ASC)

# UNIVERSITY GRANTS COMMISSION ACADEMIC STAFF COLLEGE



## UNIVERSITY OF KERALA UGC-SPONSORED SHORT-TERM COURSE IN SOFT SKILL DEVELOPMENT CERTIFICATE OF PARTICIPATION

*This is to certify that Dr. Shyam Kishor, Assistant Professor, Department of Mathematics & Astronomy University of Lucknow, Lucknow, participated in the UGC-Sponsored one week Short-Term Course in Soft Skill Development conducted by the UGC- Academic Staff College, University of Kerala, Kariavattom from 24-02-2015 to 28-02-2015.*



Kariavattom  
28-02-2015

*J. Divya Kumar*  
Course Co-ordinator

*[Signature]*  
Director

University Grants Commission  
Human Resource Development Centre  
(HRDC)



UNIVERSITY OF LUCKNOW  
UGC Sponsored Short Term Course

This is to Certify that..... Dr. Shyam Kishor..... Asstt. Prof......  
(Name of Participant) (Designation)  
Deptt. of Mathematics, University of Lucknow, Lucknow, UP.....  
(College/University) (Place)  
Participated in the Short Term Course in..... Latex & Allied Topics.....  
affiliated to..... University of Lucknow, Lucknow, UP.....  
from..... October 27..... to..... November 02, 2015..... (one week)  
and presented paper entitled..... —.....

R. Coml  
Director

2  
Registrar/Vice-Chancellor

PERMANENT REGISTRATION NO. 962

**CERTIFICATE  
OF PARTICIPATION**

University Grants Commission  
**Human Resource Development Centre  
(HRDC)**



**UNIVERSITY OF LUCKNOW**  
UGC Sponsored Short Term Course

This is to Certify that..... Dr. Shyam Kishor ..... Asst. Prof......  
*(Name of Participant)* *(Designation)*  
..... Deptt. of Mathematics & Astronomy, University of Lucknow, Lko. .....  
*(College/University)* *(City)*  
affiliated to..... University of Lucknow, Lucknow, (UP) .....  
Participated in the Short Term Course in..... Research Methodology & SPSS .....  
from..... March 12 ..... to March 18, 2019 ..... and obtained Grade..... A .....

R. Saini  
Director

PERMANENT REGISTRATION NO..... 1634 .....

S. K. Saini  
Registrar/Vice-Chancellor

CERTIFICATE  
OF PARTICIPATION

UNIVERSITY GRANTS COMMISSION  
Human Resource Development Centre  
(HRDC)



UNIVERSITY OF LUCKNOW  
UGC Sponsored Short Term Course

This is to Certify that..... Dr. Swarnima Bahadur ..... Asstt. Prof......  
(Name of Participant) (Designation)  
Deptt. of Mathematics & Astronomy, University of Lucknow, LKO  
(College/University) (Place)  
Participated in the Short Term Course in Innovative Teaching & Evaluation Strategies  
affiliated to University of Lucknow, Lucknow, UP  
from July 12 to July 18, 2016 (one week)  
and presented paper entitled On Derivative of Hermite  
Interpolation ..... and obtained Grade A

  
Director

  
Registrar/Vice-Chancellor

PERMANENT REGISTRATION NO. 1110

CERTIFICATE  
OF PARTICIPATION

# University Grants Commission Human Resource Development Centre (HRDC)



## UNIVERSITY OF LUCKNOW UGC Sponsored Short Term Course

This is to Certify that..... Dr. Swarnima Bahadur ..... Asst. Prof. .....  
(Name of Participant) (Designation)  
Deptt. of Mathematics, University of Lucknow, Lucknow, UP  
(College/University) (Place)  
Participated in the Short Term Course in..... Personality Development .....  
from..... August 22 ..... to..... August 28, 2015 ..... (one week)  
and presented paper entitled..... "Personality Development" .....  
..... and obtained Grade..... A .....

Director

Registrar/Vice-Chancellor

PERMANENT REGISTRATION NO. 740

# University Grants Commission Human Resource Development Centre (HRDC)



## UNIVERSITY OF LUCKNOW UGC Sponsored Short Term Course

This is to Certify that..... Dr. Swarnima Bahadur..... Asstt Prof......  
(Name of Participant) (Designation)  
Deptt. of Mathematics & Astronomy, University of Lucknow, Lko, UP  
(College/University) (Place)  
Participated in the Short Term Course in..... Latex & Allied Topics.....  
affiliated to..... University of Lucknow, Lucknow, UP.....  
from..... October 27..... to..... November 02, 2015..... (one week)  
and presented paper entitled..... \_\_\_\_\_.....  
..... and obtained Grade..... \_\_\_\_\_.....

R. Soni  
Director

2  
Registrar/Vice-Chancellor

PERMANENT REGISTRATION NO. 964

CERTIFICATE  
OF PARTICIPATION

**UNIVERSITY GRANTS COMMISSION  
ACADEMIC STAFF COLLEGE**



**UNIVERSITY OF KERALA**

**UGC-SPONSORED SHORT-TERM COURSE IN  
SOFT SKILL DEVELOPMENT**

**CERTIFICATE OF PARTICIPATION**

*This is to certify that Dr. Amarendra Kumar, Department of Physics, University of Lucknow, Lucknow, participated in the UGC-Sponsored one week Short-Term Course in Soft Skill Development conducted by the UGC Academic Staff College, University of Kerala, Kariavattom from 24-02-2015 to 28-02-2015.*



Kariavattom  
28-02-2015

*J. Divakaran*  
Course Co-ordinator

*[Signature]*  
Director

6.3.4/4

6.3.4/23

28

OF PARTICIPATION

University Grants Commission  
Human Resource Development Centre  
(HRDC)



UNIVERSITY OF LUCKNOW  
UGC Sponsored Orientation Programme

This is to Certify that Dr. Vinod Kumar Asst. Prof.  
(Name of Participant) (Designation)

Deptt. of Physics, University of Lucknow, Lucknow (Place)

affiliated to University of Lucknow, Lucknow (UP) University

participated in the Orientation Programme 130

from Oct. 22 to Nov. 20, 2018 and obtained grade A


R. G. Singh  
Director

PERMANENT REGISTRATION NO: 3075

Ashutosh  
Registrar/Vice-Chancellor

6.3.4/24

**University Grants Commission  
Human Resource Development Centre  
(HRDC)**

  
**UNIVERSITY OF LUCKNOW**  
UGC Sponsored Refresher Course

This is to certify that Dr. Vinod Kumar Asst. Prof.  
(Name of Participant) (Designation)

Deptt. of Physics, University of Lucknow, Lucknow.  
(College/university) (Place)

affiliated to University of Lucknow, Lucknow.

participated in the Refresher Course in the Subject Physics & Astronomy  
University

from Feb-17 to Feb 29, 2020 and obtained grade A<sup>+</sup>

Lalji Pandey H. D. Singh Registrar/Vice-Chancellor  
Director Co-ordinator

PERMANENT REGISTRATION NO. 2/1/19

**CERTIFICATE  
OF PARTICIPATION**

6.3.4/25-

# CERTIFICATE OF PARTICIPATION

**University Grants Commission  
Human Resource Development Centre  
(HRDC)**



**UNIVERSITY OF LUCKNOW**  
UGC Sponsored Orientation Programme

This is to Certify that Dr. Sandeep Kumar Pundir Asst. Prof.  
(Name of Participant) (Designation)

Deptt. of Physics, University of Lucknow, Lucknow.  
(College/University) (Place)

affiliated to University of Lucknow, Lucknow, (UP)  
University

participated in the Orientation Programme.....130

from Oct. 22 to Nov. 20, 2018 and obtained grade A

R. Sanj  
Director

PERMANENT REGISTRATION NO. 3874

Arshad  
Registrar/Vice-Chancellor

6.3.4/29



May 19, 2020

UNIVERSITY OF LUCKNOW  
DEPARTMENT OF PHYSICS  
LUCKNOW, UP 226007  
INDIA

Registration Number: 1414052

Dear RAJESH SHUKLA,

This letter serves to certify that **RAJESH SHUKLA** attended the 2020 Conference on Lasers and Electro-Optics ("CLEO"), presented in an all-virtual, web conference format, from 11 - 15 May 2020.

With a distinguished history as the industry's leading event on laser science, CLEO is where laser technology was first introduced. This conference unites the field of lasers and electro-optics by bringing together all aspects of laser technology, with content stemming from basic research to industry applications. This year, CLEO-EXPO turned into a virtual exhibit with over 140 companies showcasing their products via web. If you have not had the chance, you can still [experience it here](#).

CLEO is co-sponsored by the American Physical Society's (APS) Laser Science Division, the IEEE Photonics Society, and The Optical Society (OSA).

Certified by:

A handwritten signature in blue ink, appearing to read "AJ Sultan".

AJ Sultan  
CLEO Registration

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