Certificate 1 (top-left):

Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to

MUSKAN VERMA

for successfully completing the course

An Introduction to Programming through C++

with a consolidated score of **82** %

| Online Assignments | 23.47/25 | Proctored Exam | 58.34/75 |

Total number of candidates certified in this course: 2183

Jan-Apr 2022
(12 week course)

Prof. Sridhar Iyer
Head CDEEP & NPTEL Coordinator
IIT Bombay

Indian Institute of Technology Bombay

swayam

Roll No: NPTEL22CS14504550015B

To validate and check score: https://digital.ac.in/noc

Certificate 2 (top-middle):

Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to

RAMA MANHAS

for successfully completing the course

The Joy of Computing using Python

with a consolidated score of **79** %

| Online Assignments | 24.78/25 | Programming Assignment | 25/25 | Proctored Exam | 29/50 |

Total number of candidates certified in this course: 9957

Prof. Devendra Jalihal
Chairperson
Centre for Outreach and Digital Education, IITM

Jul-Oct 2022
(12 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL22CS122564690201

To validate the certificate

No. of credits recommended: 3 or 4

Certificate 3 (top-right):

Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to

MUSKAN VERMA

for successfully completing the course

The Joy of Computing using Python

with a consolidated score of **83** %

| Online Assignments | 24.81/25 | Programming Assignment | 25/25 | Proctored Exam | 33/50 |

Total number of candidates certified in this course: 9957

Prof. Devendra Jalihal
Chairperson
Centre for Outreach and Digital Education, IITM

Jul-Oct 2022
(12 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL22CS122564690351

To validate the certificate

No. of credits recommended: 3 or 4

Certificate 4 (bottom-left):

Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

DISHA

for successfully completing the course

Introduction to Internet of Things

with a consolidated score of **83** %

| Online Assignments | 24.13/25 | Proctored Exam | 58.5/75 |

Total number of candidates certified in this course: 5439

Jan-Apr 2019
(12 week course)

Prof. Adrijit Goswami
Dean, Continuing Education & NPTEL Coordinator
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

9CS31531490160

To validate and check score: http://digital.ac.in/noc

Certificate 5 (bottom-middle):

Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

SIMRANJIT KAUR

for successfully completing the course

Introduction to Internet of Things

with a consolidated score of **65** %

| Online Assignments | 24.34/25 | Proctored Exam | 40.5/75 |

Total number of candidates certified in this course: 5439

Jan-Apr 2019
(12 week course)

Prof. Adrijit Goswami
Dean, Continuing Education & NPTEL Coordinator
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL19CS3132149012

To validate and check score: http://digital.ac.in/noc

Certificate 6 (bottom-right):

Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

TOPPER
5%

This certificate is awarded to

SIMRANJOT KAUR

for successfully completing the course

Programming in Java

with a consolidated score of **95** %

| Online Assignments | 22.94/25 | Proctored Exam | 72/75 |

Total number of candidates certified in this course: 8377

Jan-Apr 2016
(12 week course)

Prof. Adrijit Goswami
Dean, Continuing Education & NPTEL Coordinator
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL19CS30561490017

To validate and check score: http://nptel.ac.in/noc

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

MAHEK

for successfully completing the course

Basic Linear Algebra

with a consolidated score of **48** %

Online Assignments	10.21/25	Proctored Exam	37.5/75

Total number of candidates certified in this course: **543**

Feb-Apr 2023

(8 week course)

Prof. Sridhar Iyer
Head CDEEP & NPTEL Coordinator
IIT Bombay

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From 25 June, 2021 to 09 July, 2021

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Dr. Raj Pal Singh
PRINCIPAL

Dr. Rajendra
Course Coordinator

Ms.Upinder Kaur
Co-Coordinator

अंतरिक्ष विभाग /DEPARTMENT OF SPACE
भारत सरकार/GOVERNMENT OF INDIA
भारतीय अंतरिक्ष अनुसंधान संगठन /INDIAN SPACE RESEARCH ORGANISATION
भारतीय सुदूर संवेदन संस्थान, देहरादून / INDIAN INSTITUTE OF REMOTE SENSING, DEHRADUN

नामांकन सं. / Enrolment No. : 20221001553061

CERTIFICATE OF PARTICIPATION IN
ONLINE COURSE

यह प्रमाणपत्र
MS. MEGHDEEP KAUR
को " मशीन लर्निंग से डीप लर्निंग तक : सुदूर संवेदन डेटा वर्गीकरण की एक यात्रा "
मे ऑनलाईन पाठ्यक्रम में भाग लेने पर प्रदान किया जाता है।
इस ऑनलाइन पाठ्यक्रम का आयोजन 04 जुलाई, 2022 से 08 जुलाई, 2022 (कुल पाठ्यक्रम की अवधि = 13 घंटे 30 मिनट) के दौरान किया गया।

THIS CERTIFICATE IS
AWARDED TO
MS. MEGHDEEP KAUR
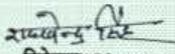ON HAVING PARTICIPATED IN THE ONLINE COURSE ON
"Machine Learning to Deep Learning: A Journey for Remote Sensing Data Classification"
THIS ONLINE COURSE WAS CONDUCTED DURING **04-07-2022 to 08-07-2022** (Total course duration was = 13 hours
and 30 minutes).

निदेशक/ **Director**
आई.आई.आर.एस, देहरादून/ **IIRS, Dehradun**

Date: 27-07-2022
Place: Dehradun
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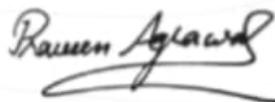
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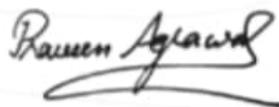
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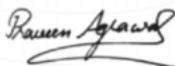
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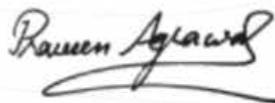
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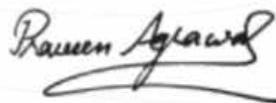CCO, TESTBOOK

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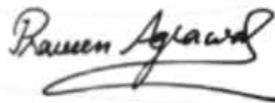DATE OF ISSUE

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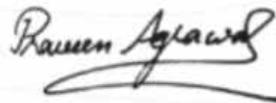
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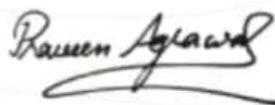
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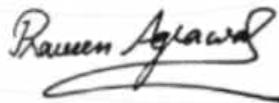
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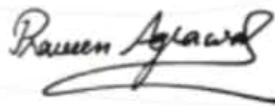
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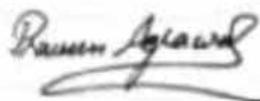DATE OF ISSUE

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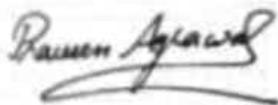CCO, TESTBOOK

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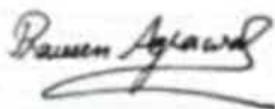DATE OF ISSUE

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Spoken English For All

PRAVEEN AGRAWAL
CCO, TESTBOOK

06/05/2023

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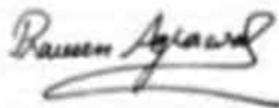
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CERTIFICATE

OF COMPLETION

THIS CERTIFICATE IS PRESENTED TO

Prabhjot kaur

WHO HAS SUCCESSFULLY COMPLETED

Excel at Excel - A Must For All Jobs

PRAVEEN AGRAWAL
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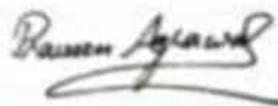
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Prabhjot kaur

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Social Media Marketing for Beginners

PRAVEEN AGRAWAL
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THIS CERTIFICATE IS PRESENTED TO

Navpreet Saini

WHO HAS SUCCESSFULLY COMPLETED

Social Media Marketing for Beginners

PRAVEEN AGRAWAL
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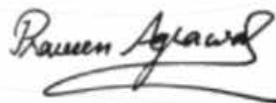
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Introduction to Machine Learning

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25/02/2023

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Manisha sharma

WHO HAS SUCCESSFULLY COMPLETED

HTML & CSS For Web Development

PRAVEEN AGRAWAL
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WHO HAS SUCCESSFULLY COMPLETED

Basics of JavaScript

PRAVEEN AGRAWAL
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Aakriti Ruhela

WHO HAS SUCCESSFULLY COMPLETED

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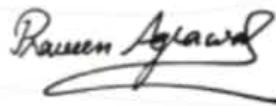04/05/2023

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Aakriti Ruhela

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HTML & CSS For Web Development

PRAVEEN AGRAWAL
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Ramanpreet Kaur

WHO HAS SUCCESSFULLY COMPLETED

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Ramanpreet Kaur

WHO HAS SUCCESSFULLY COMPLETED

Excel at Excel – A Must For All Jobs

PRAVEEN AGRAWAL
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07/05/2023

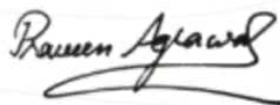DATE OF ISSUE

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Robindeep kaur

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Praveen Agrawal

PRAVEEN AGRAWAL
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THIS CERTIFICATE IS PRESENTED TO

Gurjeetkaur

WHO HAS SUCCESSFULLY COMPLETED
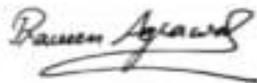
Excel at Excel - A Must For All Jobs

PRAVEEN AGRAWAL
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THIS CERTIFICATE IS PRESENTED TO

Prerna Mehta

WHO HAS SUCCESSFULLY COMPLETED

Data Visualization Using Excel

PRAVEEN AGRAWAL
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OF COMPLETION

THIS CERTIFICATE IS PRESENTED TO

Prerna Mehta

WHO HAS SUCCESSFULLY COMPLETED

Prepare for Google Ad Certification

PRAVEEN AGRAWAL
CCO, TESTBOOK

06/05/2023

DATE OF ISSUE

Online Courses

Under DBT STAR STATUS

Session 2019-20

Department of Physics

Kanya Maha Vidyalaya, Jalandhar

(An Autonomous & Heritage Institution)

Online course on "Basics of Quantum Mechanics" by Prof. HC Verma

Dated:15 th august to 18 th November, 2019

17 students of M.Sc Physics, 3 student of B.Sc. And three faculty members of department enrolled for online course on the topic "Basics of Quantum Mechanics" conducted by Prof. HC Verma of IIT, Kanpur. These students and teachers have been provided certificates by CDTE, IIT Kanpur. This course include the phenomena leading to the development of quantum mechanics, photoelectric effect, compton effect, wave particle duality, de-Broglie matter waves, operators corresponding to measurable quantities and their expectation values, etc. the course run from 15 th august to 18 th November, which includes lectures and assignments. The certificate was also provided to the students who have visited atleast 90% of the videos. Thus the students get double benefits by watching the lectures: 1 They understand the concepts of quantum mechanics that will surely help them to crack CSIR-NET examination. The other is they got certified.

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

Anjali dahda

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was **Satisfactory**/~~Good/Excellent/Outstanding~~

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Verify at outreach.iitk.ac.in/v/5dd8cce0bc8ce6c1a2794420

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

Harmanpreet kaur

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was **Satisfactory**/~~Good/Excellent/Outstanding~~

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Verify at outreach.iitk.ac.in/v/5dd8cce0bc8ce6c1a2794421

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

Bhawna sharma

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was **Satisfactory**/~~Good~~/~~Excellent~~/~~Outstanding~~

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Verify at outreach.iitk.ac.in/v/5dd8cce0bc8ce6c1a279441f

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

Cheshta sharma

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was **Satisfactory**/~~Good/Excellent/Outstanding~~

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Verify at outreach.iitk.ac.in/v/5dd8cce9bc8ce6bf7c626fa5

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

Harpreet kaur

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was **Satisfactory/~~Good/Excellent/Outstanding~~**

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Verify at outreach.iitk.ac.in/v/5dd8ccdfbc8ce6be6d3baae4

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

Jasleen Kaur

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was ~~Satisfactory~~/**Good**/~~Excellent~~/~~Outstanding~~

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Verify at outreach.iitk.ac.in/v/5dd8cd84bc8ce6ddcc4f4864

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

Vaishnavi Sharma

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was Satisfactory/Good/Excellent/Outstanding

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

Ashmita mehra

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was **Satisfactory**/~~Good~~/~~Excellent~~/~~Outstanding~~

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Verify at outreach.iitk.ac.in/v/5dd8cd84bc8ce6ddcc4f4867

Indian Institute of Technology Kanpur

Centre for Continuing Education

This is to certify that

Shivani dhiman

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was Satisfactory/Good/Excellent/Outstanding

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur.

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

Simranjit Kaur

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was **Satisfactory/~~Good/Excellent/Outstanding~~**

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Verify at outreach.iitk.ac.in/v/5dd8cd85bc8ce6ddcc4f4868

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

jasdeep kaur

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was Satisfactory/Good/Excellent/Outstanding

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

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Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

Ridhima sharma

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was **Satisfactory/~~Good/Excellent/Outstanding~~**

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

Shivali

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was Satisfactory/Good/Excellent/Outstanding

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Verify at outreach.iitk.ac.in/v/5d4f6dabbc8cccdddbc8a21e7

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

meetali

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was **Satisfactory**/~~Good~~/~~Excellent~~/~~Outstanding~~

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Verify at outreach.iitk.ac.in/v/5dd8cd88bc8ce6c0d15372b8

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

Varsha

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was Satisfactory/Good/Excellent/Outstanding

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Verify at outreach.iitk.ac.in/v/5dd8cd82bc8ce6a093a8xx

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

kamaljit kaur

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

*the performance was Satisfactory/**Good**/Excellent/Outstanding*

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

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Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

Shivali

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was Satisfactory/Good/Excellent/Outstanding

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

Mehak

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was Satisfactory/Good/Excellent/Outstanding

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

SURBHI SHARMA

has participated in the course

Basics of Quantum Mechanics

(August 15 to November 18, 2019)

and

the performance was Satisfactory/Good/Excellent/Outstanding

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

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Online course on "Advanced Course on Special Theory of Relativity" by Prof. HC Verma

Dated: 26 Jan to 19 May, 2020

Two faculty members of department enrolled for online course on the topic "Advanced Course on Special Theory of Relativity" conducted by Prof. HC Verma of IIT, Kanpur. These students and teachers have been provided certificates by CDTE, IIT Kanpur. This course include the phenomena leading to the development of quantum mechanics, photoelectric effect, compton effect, wave particle duality, de-Broglie matter waves, operators corresponding to measurable quantities and their expectation values, etc. the course run from26 Jan to 19 May, 2020, which includes lectures and assignments. The certificate was also provided to the students who have visited atleast 90% of the videos. Thus the students get double benefits by watching the lectures: 1 They understand the concepts of quantum mechanics that will surely help them to crack CSIR-NET examination. The other is they got certified.

Centre for Continuing Education

Indian Institute of Technology Kanpur

This is to certify that

SURBHI SHARMA

has participated in the course

Advanced Course on Special theory of Relativity

(January 26 to May 19, 2020)

and

the performance was *Satisfactory/Good/ Very Good /Excellent/Outstanding*

Prof. Rajesh M. Hegde
Head, Centre for Continuing Education
IIT Kanpur

Prof. H. C. Verma (Retd.)
Department of Physics
IIT Kanpur

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