

**Organises**

**"IIC Review Council Meeting"**

**Er. NAVDEEPAK SANDHU**

**President, IIC**



**LIVE** on Google Meet  
**Friday, August 27, 2021**  
**1100hrs**

(For all the Student Coordinators and Faculty Members)

**Note:-**

- This will be an interactive session. Viewers can ask questions also at the end of the meeting.
- Please while entering the session your name should be correct.
- Click on the link or scan the QR code to attend the session.

For any query: Anchal - 6283389409



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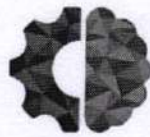
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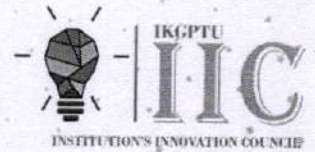


@navdeepaksandhu



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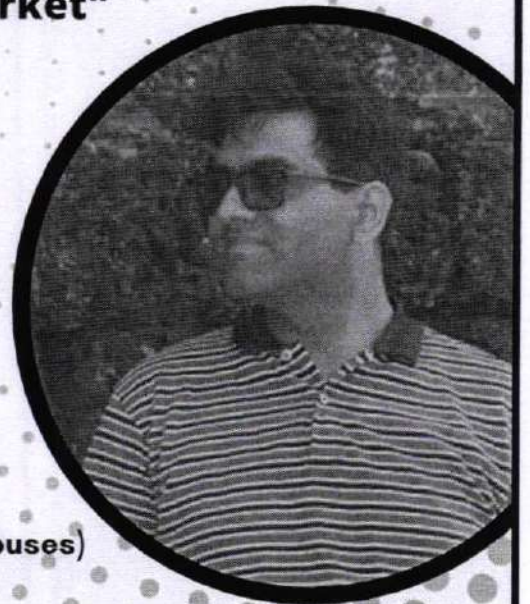


Presents

"Session on Product fit for Market"

**RISHABH ARORA**

Founder of Aptitude Baba



LIVE on Google Meet  
Tuesday, August 31, 2021  
1130hrs

(For all the Students of IKG PTU campuses)

Note:-

- This will be an interactive session. Viewers can ask questions also at the end of the meeting.
- Please while entering the session your name should be correct.
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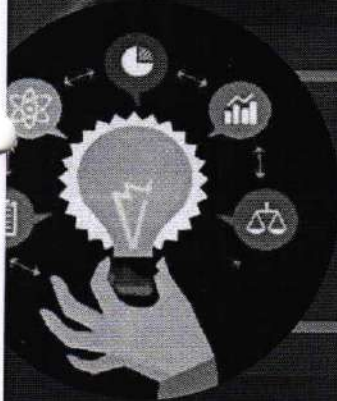
In-Collaboration  
With



PRESENTS

# 3-DAYS ONLINE WORKSHOP

(FOR FINAL & PRE-FINAL YEAR STUDENTS)



## Quantitative Aptitude

Learn the basic and analytical techniques to solve a problems

06th August, 2021 @ 1600-1900hrs

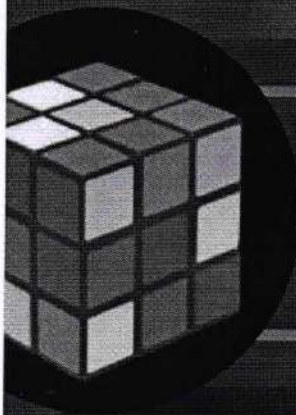
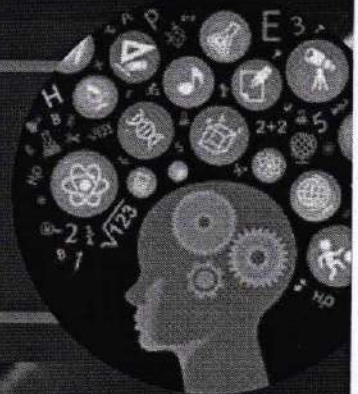
Click on this link to Join: <https://global.gotomeeting.com/join/176057341>

## Verbal Ability

Learn the basics to demonstrate skill to comprehend and communicate effectively with words

07th August, 2021 @ 1600-1900hrs

Click on this link to Join: <https://global.gotomeeting.com/join/565429581>



## Logical Reasoning

Learn the basics to imply the conclusion given the precondition

08th August, 2021 @ 1600-1900hrs

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MSP



**Training and Placement Cell  
IKG PTU**

**presents**

**Alumni Talk'21**

(For the final year students of IKG PTU Campuses)

# "PREP FOR PLACEMENT IN COGNIZANT"

**THURSDAY**

02 SEPTEMBER

START FROM 06PM

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**Navdeepak Sandhu**  
DEPUTY DIRECTOR (CR&A), IKG PTU

**In Conversation With**



**Aditya Sharma**  
PROGRAMMER ANALYST-COGNIZANT



**Surbhi Kumari**  
PROGRAMMER ANALYST-COGNIZANT



**Training and Placement Cell, IKG PTU**  
presents

# Alumni Talk'21

(For the final year students of IKG PTU Campuses)

## "Journey from IKG PTU to TCS"



**Navdeepak Sandhu**  
DEPUTY DIRECTOR (CR&A), IKG PTU



In Conversation With



**Sourav Asija**  
IKG PTU ALUMNUS,  
BATCH (2016-2020)  
ASSISTANT SYSTEM ENGINEER  
TCS

**Harjot Singh**

IKG PTU ALUMNUS,  
BATCH (2017-2021)  
ASSISTANT SYSTEM ENGINEER  
TCS



31-07-2021



3:00 PM TO 4:00 PM

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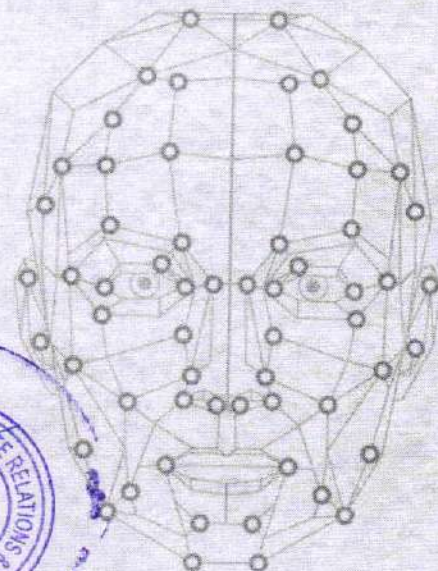


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I.K. Gujral Punjab Technical University, Jalandhar

(A State University Established by Govt. of Punjab vide Punjab Act No. 1 of 1997)



AICTE & IKGPTU Sponsored One-Week  
Faculty Development Program (FDP)

# Certificate of Participation

THIS CERTIFICATE IS PRESENTED TO

Dr. Roopa

of IKGPTU Kapurthala for the successful participation in one week AICTE and IKGPTU  
Jalandhar sponsored Faculty Development Programme on “**Advancements in the Methodologies for the development of  
Synthetic Materials**” from 06.06.2022 to 11.06.2022 conducted by the **Department of Chemical Sciences**.

11/06/2022

Date

Dr Rupesh Kumar

Dr Rupesh Kumar  
Programme Coordinator

Professor (Dr.) Gaurav Bhargava

Professor (Dr.) Gaurav Bhargava  
Head of the Department

Professor (Dr.) Vikas Chawla

Professor (Dr.) Vikas Chawla  
Dean (Academics)

IKGPTU/CS/3529/43



ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ, ਜਲੰਧਰ  
I.K. Gujral Punjab Technical University, Jalandhar

(A State University Established by Govt. of Punjab vide Punjab Act No. 1 of 1997)



AICTE & IKGPTU Sponsored One-Week  
Faculty Development Program (FDP)

# Certificate of Participation

THIS CERTIFICATE IS PRESENTED TO

DR VANDANA NAITHANI

of IKGPTU, Kapurthala for the successful participation in one week AICTE and IKGPTU Jalandhar sponsored Faculty Development Programme on “Advancements in the Methodologies for the development of Synthetic Materials” from 06.06.2022 to 11.06.2022 conducted by the Department of Chemical Sciences.

11.6.22

Date

Dr Rupesh Kumar  
Programme Coordinator

Professor (Dr.) Gaurav Bhargava  
Head of the Department

Professor (Dr.) Vikas Chawla  
Dean (Academics)





IKGPTU/CS/3529/44

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ, ਜਲੰਧਰ  
I.K. Gujral Punjab Technical University, Jalandhar

(A State University Established by Govt. of Punjab vide Punjab Act No. 1 of 1997)



AICTE & IKGPTU Sponsored One-Week  
Faculty Development Program (FDP)

# Certificate of Participation

THIS CERTIFICATE IS PRESENTED TO

Dr. Chandan Parkash

of IKGPTU for the successful participation in one week AICTE and IKGPTU  
Jalandhar sponsored Faculty Development Programme on “**Advancements in the Methodologies for the development of  
Synthetic Materials**” from 06.06.2022 to 11.06.2022 conducted by the **Department of Chemical Sciences**.

11.06.22

Date

Dr Rupesh Kumar  
Programme Coordinator

Professor (Dr.) Gaurav Bhargava  
Head of the Department

Professor (Dr.) Vikas Chawla  
Dean (Academics)

I K G P T U | 15 | 3529 | 45



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AICTE & IKGPTU Sponsored One-Week  
Faculty Development Program (FDP)

# Certificate of Participation

THIS CERTIFICATE IS PRESENTED TO

Dr. Gaurav Bhargava

of I K G P T U for the successful participation in one week AICTE and IKGPTU  
Jalandhar sponsored Faculty Development Programme on “**Advancements in the Methodologies for the development of  
Synthetic Materials**” from 06.06.2022 to 11.06.2022 conducted by the **Department of Chemical Sciences**.

11.06.22

Date

Dr Rupesh Kumar  
Programme Coordinator

Professor (Dr.) Gaurav Bhargava  
Head of the Department

Professor (Dr.) Vikas Chawla  
Dean (Academics)

**Table 3**

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during 2021-22 (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.,) (8)

Name of teacher who attended	Title of the program	Duration (from – to) (DD-MM-YYYY)	Supporting Document
Dr. Maninder Kaur	Remote Sensing & GIS	6-12-2021 to 8-12-2021	Annexure-6.3.4
Dr. Varinderjit Singh	Refresher Course on Physical Sciences	15-02-2022 to 28-02-2022	
Dr. Maninder Kaur	"Advancements in the Methodologies for the development of Synthetic Materials"	06-06-2022 To 11-06-2.22	
Dr. Varinderjit Singh	"Advancements in the Methodologies for the development of Synthetic Materials"	06-06-2022 To 11-06-2.22	
Dr. Varinderjit Singh	Free ICT Tool for Effective Research	05-12-2022 To 09-12-2022	

  
Head of Department  
Department of Physics  
I.K.Gujr/N Punjab Technical University Jalandhar,  
Kapurthala, Punjab-144603

No.: 1025



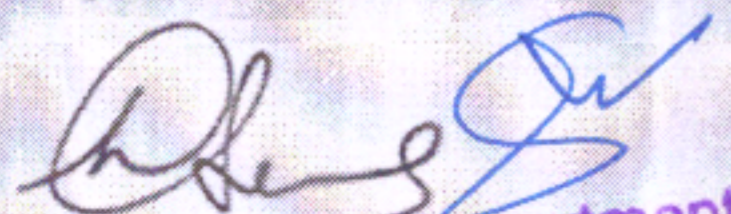
**UGC-Human Resource Development Centre**  
**Himachal Pradesh University, Shimla-171005**  
(NAAC Accredited 'A' Grade University)



**UGC SPONSORED REFRESHER COURSE**

*Certificate of Participation*

This is to certify that **Dr. Maninder Kaur** Assistant/Associate Professor  
in **Physics** from **Department of Physical Sciences, IKGPTU,**  
**Kapurthala Jalandhar Highway, Kapurthala, Punjab**  
affiliated to **IK Gujral Punjab Technical University, Kapurthala**  
participated in the 2-weeks online Refresher Course on **Remote Sensing & GIS**  
held from **06-12-2021** to **18-12-2021** and obtained **'A'** grade.

  
Head of Department  
COURSE CO-ORDINATOR  
Department of Physics  
IK Gujral Punjab Technical University Jalandhar,  
Kapurthala, Punjab-144603

  
DIRECTOR

  
VICE-CHANCELLOR



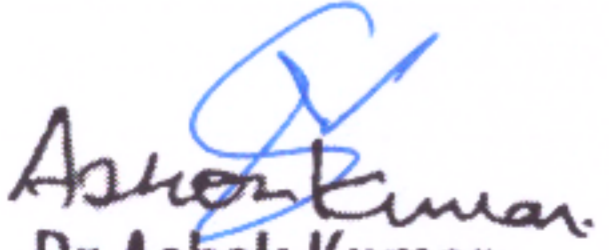
**UGC-HUMAN RESOURCE DEVELOPMENT CENTRE  
PANJAB UNIVERSITY, CHANDIGARH**

**UGC – SPONSORED REFRESHER COURSE**


7218 to 7242/220322

This is to certify that  
Varinderjit Singh  
Assistant Professor (Physics)  
I.K.Gujral Punjab Technical University,  
Kapurthala

Affiliated to I.K.Gujral Punjab Technical University, Kapurthala  
Participated in the Online - Refresher Course in Physical Sciences (All Physical Science Disciplines)  
from 15.02.2022 to 28.02.2022.  
Obtained **Grade-A**

  
Dr Ashok Kumar  
(Coordinator)  
Head of Department  
Department of Physics  
I.K.Gujral Punjab Technical University Jalandhar,  
Kapurthala, Punjab-144603

  
(Honorary Director)

  
Prof. Raj Kumar  
(Vice-Chancellor)

IKGPTU/CS/3529-38



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I.K. Gujral Punjab Technical University, Jalandhar

(A State University Established by Govt. of Punjab vide Punjab Act No. 1 of 1997)



AICTE & IKGPTU Sponsored One-Week  
Faculty Development Program (FDP)

# Certificate of Participation

THIS CERTIFICATE IS PRESENTED TO

Dr. Maninder Kaur

of IKGPTU Kapurthala for the successful participation in one week AICTE and IKGPTU  
Jalandhar sponsored Faculty Development Programme on “**Advancements in the Methodologies for the development of  
Synthetic Materials**” from 06.06.2022 to 11.06.2022 conducted by the **Department of Chemical Sciences**.

11/06/2022

Date

Head of Department  
Department of Physics  
I.K. Gujral Punjab Technical University Jalandhar,  
Kapurthala, Punjab-144603

Dr Rupesh Kumar  
Programme Coordinator

Professor (Dr.) Gaurav Bhargava  
Head of the Department

Professor (Dr.) Vikas Chawla  
Dean (Academics)

IKGPTU/CS/3529-37



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AICTE & IKGPTU Sponsored One-Week  
Faculty Development Program (FDP)

# Certificate of Participation

THIS CERTIFICATE IS PRESENTED TO

Dr. Varinderjit Singh

of IKGPTU Kapurthala for the successful participation in one week AICTE and IKGPTU  
Jalandhar sponsored Faculty Development Programme on “**Advancements in the Methodologies for the development of  
Synthetic Materials**” from 06.06.2022 to 11.06.2022 conducted by the **Department of Chemical Sciences**.

11/06/2022  
Date  
Head of Department  
Department of Physics  
I.K. Gujral Punjab Technical University Jalandhar,  
Kapurthala, Punjab-144603

Dr Rupesh Kumar  
Programme Coordinator

Professor (Dr.) Gaurav Bhargava  
Head of the Department

Professor (Dr.) Vikas Chawla  
Dean (Academics)



Certificate No: 851/23

# National Institute of Technical Teachers Training and Research Chandigarh

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

## Certificate

*This is to certify that*

**VARINDERJIT SINGH**

**I.K.G. PUNJAB TECHNICAL UNIVERSITY, KAPURTHALA  
PUNJAB**

*Participated in the AICTE Recognized Faculty Development Programme*

on

**Free ICT Tool for Effective Research**

*Conducted by*

**Electronics and Communication Engineering Department**

from

**05/12/2022 to 09/12/2022 (One Week)**

at

**IKGPTU, Jalandhar**

Head of Department  
Department of Physics  
I.K.Gujral Punjab Technical University Jalandhar,  
Kapurthala, Punjab-144603



Coordinator

Head of Department

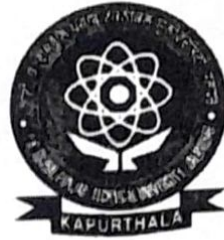
Director



IKGPTU/EE/FDP-2022/23

I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

Main Campus, Kapurthala-144603 (PB)




CERTIFICATE

**One-Week National Level AICTE-IKGPTU Sponsored  
Faculty Development Programme**

This is to certify that **Dr. Megha Goyal (IKGPTU)** has participated and has successfully completed One-Week AICTE-IKGPTU Sponsored National Level Faculty Development Programme on "**CURRENT TRENDS IN GREEN ENERGY & POWER SYSTEM**" organized by Department of Electrical Engineering at IK Gujral Punjab Technical University, Kapurthala during the period June 03-08, 2022.

Naam  
Dr Naveen Kumar Sharma  
FDP Coordinator

  
Prof. (Dr.) Y. S. Brar  
FDP Coordinator/Dean PE&P



Sr. No..I.K.U.KTU/EE/218,

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AICTE & IKGPTU Sponsored One-Week  
Faculty Development Programme

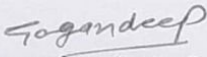
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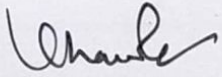
THIS CERTIFICATE IS AWARDED TO

GURJINDER SINGH (AP-Mathematical Sciences)

from IKGPTU Main Campus Kapurthala having successfully completed the one week AICTE and IKGPTU sponsored Faculty Development Programme on “Applications of Computing Techniques in Sustainable Energy Systems, (ACTSES)” from June 15-20, 2022 organized by the Department of Electrical Engineering, IKGPTU Main Campus, Kapurthala, Punjab.

  
Programme Coordinator

  
Programme Coordinator & Head-EE

  
Dean Academics & Chief Coordinator

IKGPTU/EE/FDP-2022/12

I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY  
Main Campus, Kapurthala-144603 (PB)




**CERTIFICATE**

**One-Week National Level AICTE-IKGPTU Sponsored  
Faculty Development Programme**

This is to certify that **Dr Gurjinder Singh (IKGPTU)** has participated and has successfully completed One-Week AICTE-IKGPTU Sponsored National Level Faculty Development Programme on "**CURRENT TRENDS IN GREEN ENERGY & POWER SYSTEM**" organized by Department of Electrical Engineering at IK Gujral Punjab Technical University, Kapurthala during the period June 03-08, 2022.

*Naun*  
Dr Naveen Kumar Sharma  
FDP Coordinator

  
Prof. (Dr.) Y. S. Brar  
FDP Coordinator/Dean PE&P



Sr. No. I.K.G.P.U./EE/219

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I.K. Gujral Punjab Technical University, Kapurthala

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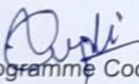
AICTE & IKGPTU Sponsored One-Week  
Faculty Development Programme

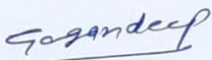
# Certificate of Participation

THIS CERTIFICATE IS AWARDED TO

RAJESH KUMAR NARULA (A.P. - Mathematical Sciences)

from IKGPTU Main Campus Kapurthala having successfully completed the one week AICTE and IKGPTU sponsored Faculty Development Programme on "Applications of Computing Techniques in Sustainable Energy Systems, (ACTSES)" from June 15-20, 2022 organized by the Department of Electrical Engineering, IKGPTU Main Campus, Kapurthala, Punjab.

  
Programme Coordinator

  
Programme Coordinator & Head-EE

  
Dean Academics & Chief Coordinator

IKGPTU/EE/FDP-2022/22

# I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

Main Campus, Kapurthala-144603 (PB)



## CERTIFICATE

### **One-Week National Level AICTE-IKGPTU Sponsored Faculty Development Programme**

This is to certify that **Dr. Rajesh Kumar Narula (IKGPTU)** has participated and has successfully completed One-Week AICTE-IKGPTU Sponsored National Level Faculty Development Programme on "**CURRENT TRENDS IN GREEN ENERGY & POWER SYSTEM**" organized by Department of Electrical Engineering at IK Gujral Punjab Technical University, Kapurthala during the period June 03-08, 2022.

*Naveen*

**Dr Naveen Kumar Sharma**  
FDP Coordinator

**Prof. (Dr.) Y. S. Brar**  
FDP Coordinator/Dean PE&P



**SHARDA**  
**UNIVERSITY**  
Beyond Boundaries

**SCHOOL OF**  
**ENGINEERING &**  
**TECHNOLOGY**

# *Certificate of Participation*

*This is to certify that*

Dr./Mr./Ms. ....

**Prof. (Dr.) Rajiv Chauhan**

of ..... **I. K. G. Punjab Technical University, Kapurthala, Punjab** has attended one week

E-Faculty Development Programme on "Development of Smart Cities – Perspective from Electrical and Electronics Engineering"

organized by the Department of Electrical Electronics and Communication Engineering,

School of Engineering and Technology, Sharda University, Greater Noida, Uttar Pradesh

during 29th June to 3rd July 2021.

**Prof. Ashish Gupta**  
HOD, EECE Department, SET  
Sharda University

**Prof. (Dr.) Parma Nand**  
Dean, SET  
Sharda University

Sr. No. I.K.G.Kol.Ee/197.

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ, ਕਪੂਰਥਲਾ  
I.K. Gujral Punjab Technical University, Kapurthala

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AICTE & IKGPTU Sponsored One-Week  
Faculty Development Programme

# Certificate of Participation

THIS CERTIFICATE IS AWARDED TO

DR. RAMAN KUMAR (A.P. - CSE)

from I.K. Gujral Pb. Technical University, Kapurthala having successfully completed the one week AICTE and IKGPTU sponsored Faculty Development Programme on “Applications of Computing Techniques in Sustainable Energy Systems, (ACTSES)” from June 15-20, 2022 organized by the Department of Electrical Engineering, IKGPTU Main Campus, Kapurthala, Punjab.

Dupli

Programme Coordinator

Sagandeep

Programme Coordinator & Head-EE

Uranda

Dean Academics & Chief Coordinator

**Table 3 (Excel Sheet 6.3.4 – Annexure A)****6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes**

<b>Name of teacher who attended</b>	<b>Title of the program</b>	<b>Duration (from – to) (DD-MM-YYYY)</b>
Dr Deepak goyal	Research mehodology	18-10-21 to 30-10-21
Dr. Amoljit Singh Gill	Refresher Course In Material Science	24-9-21 to 8-10-21
Dr. Tarun goyal	2nd International conference on Industrial & Manufacturing Systems (CIMS) organized by PEC, Chandigarh and NIT, Jalandhar2	11-11-21 to 13-11-21
	Delivered expert lecture for the students of Sri Sukhmani Institute of Engg. & Technology, Derabassi	17-11-2021
	Development Programme on Advancements in the methodologies for the development of Synthetic Materials organized by IKGPTU, Kapurthala	06 -06- 2022 to 11-6-2022
	Applications of Computing Techniques in Sustainable Energy Systems (ACTSES) organized by IKGPTU, Kapurthala	15-6-2022 to 20-6-2022
	Delivered expert lecture for the students of Rayat Group of Institutions, Railmajra	22-04-2022
	Refresher course on “Advance in Pedagogical approaches” at HRDC, Panjab University Chandigarh	4-1-22 to 17-1-22







HOD  
Department of Mechanical Engineering  
I.K.G. P.T.U. Campus  
Kapurthala

2



# SRI SUKHMANI INSTITUTE OF ENGINEERING & TECHNOLOGY

Derabassi Distt. SAS Nagar (Mohali), Punjab-140507

(Approved by AICTE, Govt. of Punjab & Affiliated to I.K. Gujral Punjab Technical University, Jalandhar)

www.srisukhmanigroup.edu.in  
principal@srisukhmanigroup.edu.in  
ssietderabassi@gmail.com

Ref. No. SSIET/ADM/2021/029

Dated 27/12/2021

Dr. Tarun Goyal,  
Assistant Professor, IKGPTU Campus,  
Hoshiarpur.

Sir,

Greetings from Sri Sukhmani Group of Institution Derabassi

As we would like to have an expert lecture from you for the benefit of the undergraduate students of Mechanical Engineering Department of Sri Sukhmani Group of Institution Derabassi, the main essence of this letter is to seek your consent for the same.

The purpose of organizing the expert lecture is to give an opportunity to the students to improve the practical knowhow of the concepts of industry; develop exposure to specialized topic and to give an insight into the way experts think.

Please accept the invitation for dated 29/12/2021 at 11:30 AM and confirm your availability.

Thanking you in anticipation of your positive response.

Principal  
Principal  
Sri Sukhmani Institute  
of Engg. & Technology  
Dera Bassi (Mohali)



HOD  
Department of Mechanical Engineering  
I.K.G. P.T.U. Jalandhar  
Hoshiarpur

0172-2403403 Fax: 017

IKGPTU/CS/3529-36



ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ, ਜਲੰਧਰ  
I.K. Gujral Punjab Technical University, Jalandhar

(A State University Established by Govt. of Punjab vide Punjab Act No. 1 of 1997)



AICTE & IKGPTU Sponsored One-Week  
Faculty Development Program (FDP)

# Certificate of Participation

THIS CERTIFICATE IS PRESENTED TO

Dr. Tarun Goyal

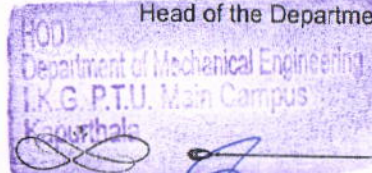
of IKGPTU Kapurthala for the successful participation in one week AICTE and IKGPTU  
Jalandhar sponsored Faculty Development Programme on "Advancements in the Methodologies for the development of  
Synthetic Materials" from 06.06.2022 to 11.06.2022 conducted by the Department of Chemical Sciences.

11/06/2022  
Date

Ru  
Dr Rupesh Kumar  
Programme Coordinator

[Signature]  
Professor (Dr.) Gaurav Bhargava  
Head of the Department

[Signature]  
Professor (Dr.) Vikas Chawla  
Dean (Academics)





Sr. No. IKGPTU/EE/179

ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ, ਕਪੂਰਥਲਾ  
I.K. Gujral Punjab Technical University, Kapurthala

(A State University Established by Govt. of Punjab vide Punjab Act No. 1 of 1997)



AICTE & IKGPTU Sponsored One-Week  
Faculty Development Programme

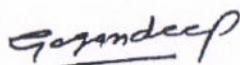
# Certificate of Participation

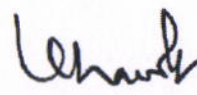
THIS CERTIFICATE IS AWARDED TO

TARUN GOYAL (A.P. - MED)

from IKGPTU, KAPURTHALA. having successfully completed the one week AICTE and IKGPTU sponsored Faculty Development Programme on "Applications of Computing Techniques in Sustainable Energy Systems, (ACTSES)" from June 15-20, 2022 organized by the Department of Electrical Engineering, IKGPTU Main Campus, Kapurthala, Punjab.

  
Programme Coordinator

  
Programme Coordinator & Head-EE

  
Dean Academics & Chief Coordinator  
Department of E.E.  
Kapurthala



ESTD. 2001

# RAYAT GROUP OF INSTITUTIONS

ROPAR CAMPUS

Railmajra, (6kms from Ropar on NH 21) Distt. Shaheed Bhagat Singh Nagar, Punjab, India 144533  
Ph: +91-1881-270500, 270691, 270693 Fax: +91-1881-270501  
website : www.rgi.ac.in

Ref No:-RIEIT/D/22/146

Dr Tarun Goyal  
Assistant Professor  
IKGPTU, Kapurthala

Sir,

**Greetings from Rayat Group of Institutions, Railmajra, Ropar.**

As we would like to have an expert lecture from you for the benefit of the undergraduate students of Mechanical Engineering Department of the institute, the main essence of this letter is to seek your consent for the same for 22.04.22 at 11:00 am.

The purpose of organizing the expert lecture is to give an opportunity to the students improve the practical knowhow of the concepts and develop exposure to specialized topics/fields at the frontiers of Mechanical Engineering and give an insight into the way experts think.

Please accept the invitation and confirm the date and time.

Thanking you in anticipation of your positive response.

DEAN ACADEMICS

Dean Academics  
RAYAT GROUP OF INSTITUTIONS  
Railmajra, Near Ropar  
Distt. S.E.S.Nagar,  
Punjab-144 533 (India)

Mobile- 9876399321

Email- amandeepSingh@rgi.ac.in





**UGC-HUMAN RESOURCE DEVELOPMENT CENTRE  
PANJAB UNIVERSITY, CHANDIGARH**

Sr.No. 6420

**UGC – SPONSORED REFRESHER COURSE**

This is to certify that

**Tarun Goyal**

**Assistant Professor (Mechanical Engineering)**

**Department of Mechanical Engineering, I.K.G.P.T.U. Main Campus,  
Kapurthala**

**Affiliated to I.K.G.Punjab Technical University, Kapurthala**

**Participated in the Online - Refresher Course in Advance in Pedagogical Approaches (All Disciplines)  
from 04.01.2022 to 17.01.2022.**

**Obtained Grade A**

**Prof. Latika Sharma  
(Coordinator)**

**Prof. S.K. Tomar  
(Honorary Director)**

**Prof. Raj Kumar  
(Vice-Chancellor)**

HOD  
Department of Mechanical Engineering  
I.K.G.P.T.U. Main Campus  
Kapurthala

UNIVERSITY GRANTS COMMISSION  
HUMAN RESOURCE DEVELOPMENT CENTRE



NORTH-EASTERN HILL UNIVERSITY  
SHILLONG - 793022

UGC-SPONSORED REFRESHER COURSE

This is to certify that

Mr. Amoljit Singh Gill

Assistant Professor

(Name of Participant)

(Designation)

Department of Mechanical Engineering, I. K. Gujral Punjab Technical University

Jalandhar, Punjab

(College/University)

(Place)

Affiliated to I. K. Gujral Punjab Technical University

Participated in the Refresher Course in Material Science and Nanotechnology\* from

24<sup>th</sup> September, 2021 to 8<sup>th</sup> October, 2021 in Online Mode and obtained grade

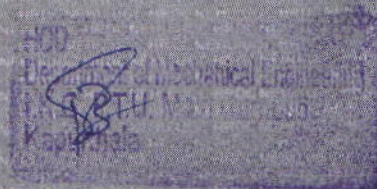


Director

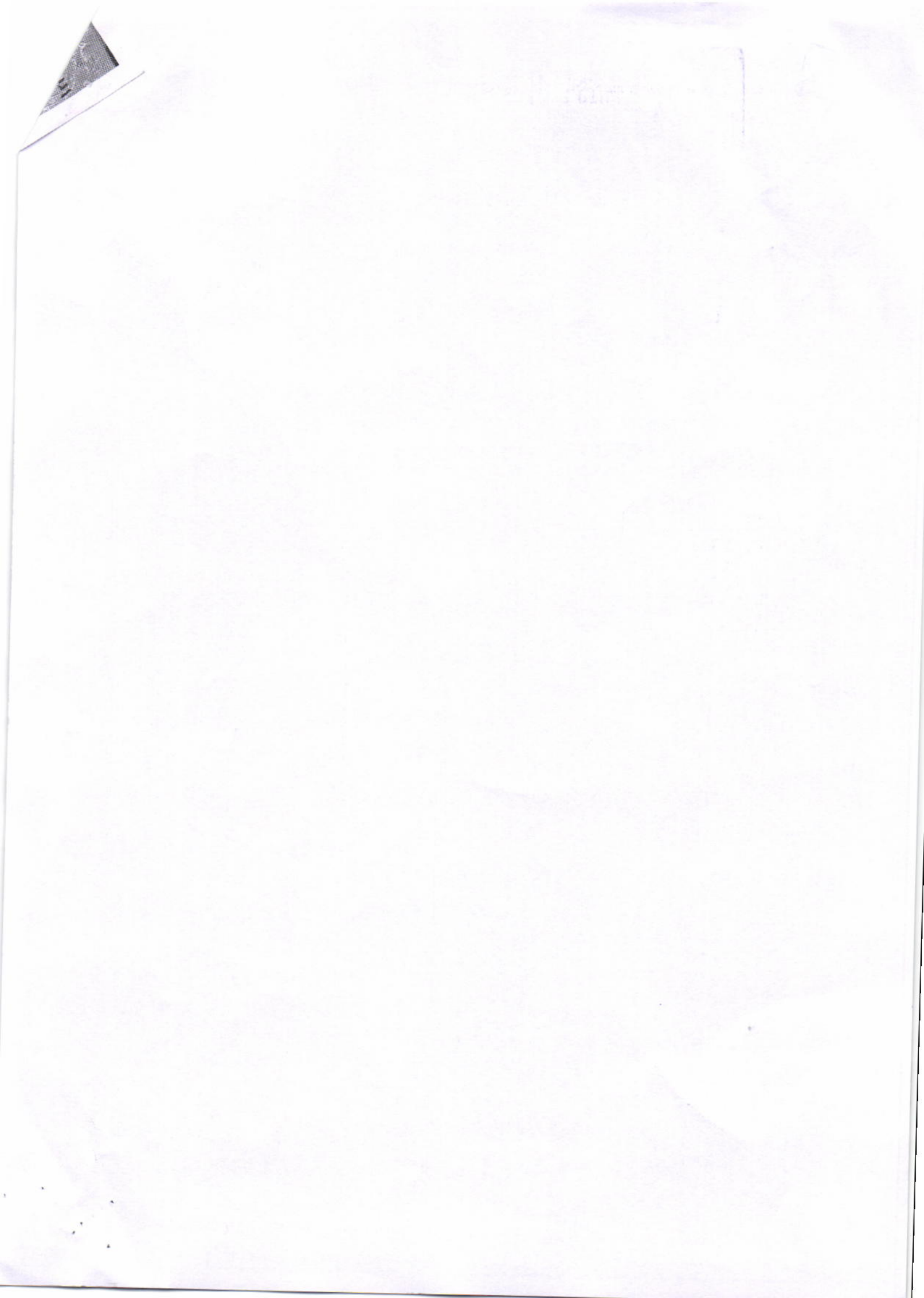
Course Coordinator

Vice-Chancellor

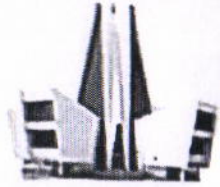
Inter/Multi-disciplinary



*(Handwritten mark)*







**UGC-HUMAN RESOURCE DEVELOPMENT CENTRE  
PUNJABI UNIVERSITY, PATIALA**  
(Established under Punjab Act No.35 of 1961)



Ref. HRDC/PUP/ 4701

Sr No 8356

**UGC-SPONSORED REFRESHER COURSE**

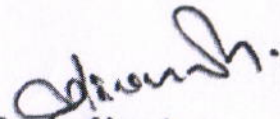
This is to certify that Dr. Deepak Kumar Goyal

Assistant Professor, Department of Mechanical Engineering, I. K. Gujral Punjab Technical University Jalandhar, Kapurthala, Punjab

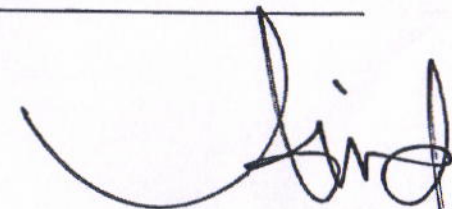
affiliated to \_\_\_\_\_

Participated in the Refresher Course: Research Methodology (Inter Disciplinary) Conducted Online

from 18-10-2021 to 30-10-2021 and obtained Grade 'A'

  
Co-ordinator

  
Director

  
Vice-Chancellor

Patiala: 30-10-2021



No:ATAL/2021/1622891848



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
Nelson Mandela Marg, Vasant Kunj, New Delhi - 110 070

**AICTE Training And Learning (ATAL) Academy**

**Certificate**

This is certified that DALVEER kaur, Assistant Professor of IKGPTU MAIN CAMPUS, KAPURTHALA participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Capacity Building of Women Leaders in Higher Education" from 2021-07-12 to 2021-07-16 at S.R.M. Institute of Science and Technology.

Adviser-I, ATAL Academy



Coordinator

Head  
Department of Electronics & Communication Engineering  
JK Gujral Punjab Technical University  
Main Campus, Kapurthala (Punjab-146033)



Certificate No : 7212/21-22.

**National Institute of  
Technical Teachers Training and Research  
Chandigarh**

**MINISTRY OF HUMAN RESOURCE DEVELOPMENT, GOVERNMENT OF INDIA**

**Certificate**

*This is to certify that*

**DALVEER KAUR**

**I.K.GUJRAL PUNJAB TECHNICAL UNIVERSITY, KAPURTHALA  
PUNJAB**

*Participated in the Online AICTE Recognized Faculty Development Programme*

**on**

**VLSI Physical Design Techniques**

**from**

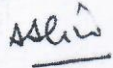
**26/07/2021 to 30/07/2021 (one Week)**

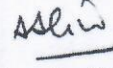
*Conducted by*

**Electronics and Communication Engineering Department**

**NITTTR, Chandigarh**



  
Co-ordinator

  
Head of the  
Department

  
Director





Certificate No : 7337/21-22

**National Institute of  
Technical Teachers Training and Research  
Chandigarh**

**MINISTRY OF HUMAN RESOURCE DEVELOPMENT, GOVERNMENT OF INDIA**

**Certificate**

*This is to certify that*

**DALVEER KAUR**

**I.K.GUJRAL PUNJAB TECHNICAL UNIVERSITY, KAPURTHALA  
PUNJAB**

*Participated in the Online AICTE Recognized Faculty Development Programme*

**on**

**Emerging Wireless Communication Technologies**

**from**

**02/08/2021 to 06/08/2021 (one Week)**

*Conducted by*

**Electronics and Communication Engineering Department**

**NITTTR, Chandigarh**



*[Signature]*  
Co-ordinator

*[Signature]*  
Head of the  
Department

*[Signature]*  
Director

Head  
Department of Electronics & Communication Engineering  
IK Gujral Punjab Technical University  
Main Campus, Kapurthala (Punjab)-146103

*[Signature]*



Certificate No : 8186/21-22

**National Institute of  
Technical Teachers Training and Research  
Chandigarh**

**MINISTRY OF EDUCATION, GOVERNMENT OF INDIA**

**Certificate**

*This is to certify that*

**DALVEER KAUR**

**I.K.GUJRAL PUNJAB TECHNICAL UNIVERSITY, KAPURTHALA  
PUNJAB**

*Participated in the Online AICTE Recognized Faculty Development Programme*

**on**

**Digital and Analog VLSI Design**

**from**

**13/09/2021 to 17/09/2021 (one Week)**

*Conducted by*

**Electronics and Communication Engineering Department**

**NITTTR, Chandigarh**



*B. Raj*  
Co-ordinator

*SSK*  
Head of the  
Department

*[Signature]*  
Director

Department of Electronics & Communication Engineering  
I.K. Gujral Punjab Technical University  
Main Campus, Kapurthala (Punjab)-144603

*[Signature]*



Certificate No: 409

**National Institute of  
Technical Teachers Training and Research  
Chandigarh**

**MINISTRY OF EDUCATION, GOVERNMENT OF INDIA**

***Certificate***

**DALVEER KAUR**

**IKGPTU MAIN CAMPUS, KAPURTHALA PUNJAB**

*Participated in the AICTE QIP sponsored Online STC*

on

***Intelligent Nanophotonics***

from

**04/10/2021 to 09/10/2021 (one Week)**

*Conducted by*

**Computer Science and Engineering Department**

*Mala*  
Coordinator

*Ramkrishna*  
Head of the  
Department

*BSW*  
Director

*JA*

Head  
Department of Electronics & Communication Engineering  
JK Group of Institutions, Technical University  
Main Campus, Kapurthala (Punjab)-146003

No: ATAL/2021/1626663623



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy**

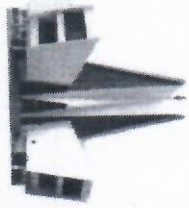
*Certificate*

This is certified that DALVEER kaur, Assistant Professor of IKGPTU MAIN CAMPUS, KAPURTHALA participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Challenges in adapting Machine Learning towards 5G/6G Communications" from 09/08/2021 to 13/08/2021 at Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology.

Advisor-I, ATAL Academy  
Dr. Mamta Rani Agarwal



Coordinator



**UGC-HUMAN RESOURCE DEVELOPMENT CENTRE  
PUNJABI UNIVERSITY, PATIALA**  
(Established under Punjab Act No.35 of 1961)



Ref. HRDC/PUP/ 4717

Sr No S872

**UGC-SPONSORED REFRESHER COURSE**

This is to certify that Dr. Rakash Goyal

Assistant Professor, Department of Electronics & Communication Engineering, I K Gujral Punjab Technical University,

Kapurthala, Punjab

affiliated to \_\_\_\_\_

Participated in the Refresher Course: Research Methodology (Inter Disciplinary) Conducted Online

from 18-10-2021 to 30-10-2021 and obtained Grade 'A'.

  
Co-ordinator

Patiala: 30-10-2021

  
Director





Vice-Chancellor

Head

I K Gujral Punjab Technical University  
Main Campus, Kapurthala (Punjab)-144673



1K61PTU|CS/3529-22



ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ, ਜਲੰਧਰ  
I.K. Gujral Punjab Technical University, Jalandhar  
(A State University Established by Govt. of Punjab vide Punjab Act No. 1 of 1997)

AICTE & IKGPTU Sponsored One-Week  
Faculty Development Program (FDP)

# Certificate of Participation

THIS CERTIFICATE IS PRESENTED TO

Dr. Amit Gupta

of IKGPTU Kapurthala for the successful participation in one week AICTE and IKGPTU  
Jalandhar sponsored Faculty Development Programme on "Advancements in the Methodologies for the development of  
Synthetic Materials" from 06.06.2022 to 11.06.2022 conducted by the Department of Chemical Sciences.

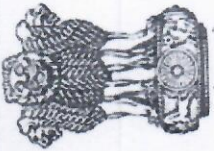
11/06/2022  
Date

Dr. Rupesh Kumar  
Programme Coordinator

Dr. Gaurav Bhargava  
Head of the Department

Professor (Dr.) Vikas Chawla  
Dean (Academics)

Head  
Department of Electronics & Communication Engineering  
IK Gujral Punjab Technical University  
Main Campus, Kapurthala (Punjab)-146613



सत्यमेव जयते

# भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING

भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION  
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



बहिः परिसर संपर्क/विस्तार कार्यक्रम प्रमाण पत्र

COR1014100292021

## OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

समन्वय का प्रमाणपत्र

### CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि इन्दर कुमार गुजराल पंजाब टेक्निकल यूनिवर्सिटी जालंधर, कपूरथला कार्यरत डॉ॰ अमित गुप्ता, ने " भू-अवलोकन आधारित, भूस्सलन का मानचित्रण, मॉडलिंग और निगरानी: प्रारंभिक चेतावनी के समर्थन में आधुनिक गतिविधियाँ " विषय पर इस संस्थान द्वारा दिनांक 21 अप्रैल, 2021 को आयोजित एक दिवसीय ऑनलाइन कार्यशाला को समन्वित किया।

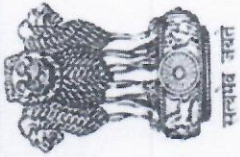
This is to certify that **DR. AMIT GUPTA**, working with **I. K. Gujral Punjab Technical University Jalandhar, Kapurthala**, has coordinated one day online workshop on "Earth Observation based Mapping, Monitoring and Modelling of Landslide: Recent trends and support to early warning system" conducted by this institute on April 21, 2021

दिनांक/ Date: 12-07-2021  
देहरादून/ Dehradun

प्रमुख,  
जियोवेब सर्विसेस, यूएनए प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग  
Head, Geoweb Services, IT & Distance Learning Department, IIRS

समूह प्रमुख,  
भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह  
Group Head, Geospatial Technologies & Outreach Programme Group, IIRS

Head  
Department of Technical Education Engineering  
I.K Gujral Punjab Technical University  
Jalandhar (Punjab) 144003



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING

भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION  
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



ऑनलाइन दूरस्थ अधिगम कार्यक्रम

COR82100292021

ONLINE DISTANCE LEARNING PROGRAMME

समन्वय का प्रमाणपत्र

CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि इन्दर कुमार गुजराल पंजाब टेक्निकल यूनिवर्सिटी जालंधर, कपूरथला कार्यरत डॉ॰ अमित गुप्ता, ने 'मशीन लर्निंग से डीप लर्निंग तक : सुदूर संवेदन डेटा वर्गीकरण की एक यात्रा' विषय पर इस संस्थान द्वारा दिनांक 05 जुलाई, 2021 से 09 जुलाई, 2021 तक संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम को समन्वित किया।

This is to certify that **DR. AMIT GUPTA**, working with **I. K. Gujral Punjab Technical University Jalandhar, Kapurthala**, has coordinated the online training course on "**Machine learning to Deep Learning: A journey for remote sensing data classification**" conducted by this institute during July 05, 2021 to July 09, 2021.



दिनांक/ Date: 14-07-2021  
देहरादून/ Dehradun

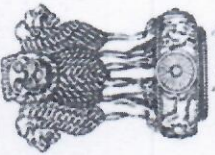
प्रमुख,  
जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग  
Head,  
Geoveb Services, IT & Distance Learning Department-IIRS



समूह प्रमुख,  
भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह  
Group Head, Geospatial Technologies & Outreach Programme Group, IIRS



Department of Electronics & Communication Engineering  
IK Gujral Punjab Technical University  
Main Campus, Kapurthala (Distt-141002)



सत्यमेव जयते

## भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING

भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION  
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



COR20229810029

ऑनलाइन दूरस्थ अधिगम कार्यक्रम  
ONLINE DISTANCE LEARNING PROGRAMME

### समन्वय का प्रमाणपत्र CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि इन्दर कुमार गुजराल पंजाब टेक्निकल यूनिवर्सिटी जालंधर, कपूरथला कार्यरत डॉ॰ अमित गुप्ता, ने आर्टिफिशियल इंटेलिजेंस (एआई) द्वारा पृथ्वी अवलोकन (ईओ) एवं जियोडेटा हैंडलिंग व प्रोसेसिंग विषय पर इस संस्थान द्वारा दिनांक 02 मई, 2022 से 13 मई, 2022 तक संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम को समन्वित किया।

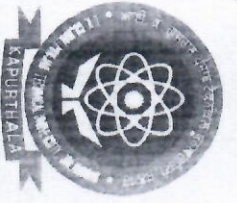
This is to certify that **DR. AMIT GUPTA**, working with **I. K. Gujral Punjab Technical University Jalandhar, Kapurthala**, has coordinated the online training course on **Artificial Intelligence (AI) for Earth Observation (EO) and Geodata Handling and Processing** conducted by this institute during **May 02, 2022 to May 13, 2022**

दिनांक/ Date: 24-05-2022  
देहरादून/ Dehradun

प्रमुख,  
जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग  
Head, Geovis Services, IT & Distance Learning Department, IIRS

समूह प्रमुख,  
भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह  
Group Head, Geospatial Technologies & Outreach Programme Group, IIRS

I. K. Gujral Punjab Technical University  
Main Campus, Kapurthala (Punjab)-141003



Sr. No. I.K.A/Engg/173

ਮਾਸ਼ੀ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ, ਕਪੂਰਥਲਾ  
I.K. Gujral Punjab Technical University, Kapurthala

(A State University Established by Govt. of Punjab vide Punjab Act No. 1 of 1997)



AICTE & IKGPTU Sponsored One-Week  
Faculty Development Programme

# Certificate of Participation

THIS CERTIFICATE IS AWARDED TO

DR. RAKESH KUMAR. (AP. - ECE)

from IKGPTU MAIN CAMPUS KAPUR THALA having successfully completed the one week AICTE and IKGPTU sponsored Faculty Development Programme on "Applications of Computing Techniques in Sustainable Energy Systems, (ACTSES)" from June 15-20, 2022 organized by the Department of Electrical Engineering, IKGPTU Main Campus, Kapurthala, Punjab.

Programme Coordinator

Programme Coordinator & Head-EE

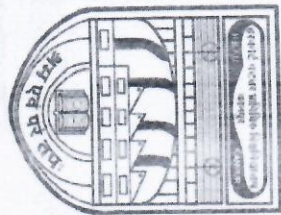
Dean Academics & Chief Coordinator

Department of Electronics & Communication Engineering  
IK Gujral Punjab Technical University  
Main Campus, Kapurthala (Punjab)-144603

17/PART/ICA-2021/EED-HBTUK

Harcourt Butler Technical University, Kanpur

100  
YEARS  
1921 - 2021



School of Engineering (SoE)

Department of Electrical Engineering (EED)

## Certificate of Participation

This is to certify that **Dr. Rakesh Kumar**, Assistant Professor, Department of Electronics & Communication Engineering, IK Gujral Punjab Technical University, Main Campus, Kapurthala, Punjab has participated in One Week Online Faculty Development Programme (FDP) on **Intelligent Control and Its Applications** organised by Department of Electrical Engineering, SoE from **16-20 August 2021** at HBTU Kanpur.

(C. N. Singh)

Assoc. Prof., EED

Organising Secretary

(Dr. Yaduvir Singh)

Prof. & Head, EED

Chairperson

Head  
Department of Electronics & Communication Engineering  
IK Gujral Punjab Technical University  
Main Campus, Kapurthala (Punjab)-144603

No: ATAL/2021/1632408618



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training and Learning (ATAL) Academy

*Certificate*

This is certified that Rakesh Kumar, Assistant Professor of IKGPTU Main Campus Kapurthala participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on " High Speed Wireless and Optical Technologies for developing Global Network " from 04/10/2021 to 08/10/2021 at Chandigarh College of Engineering and Technology (DEGREE WING).

Advisor-I, ATAL Academy  
Mamta Rani Agarwal



Head  
Department of Electronics & Communication Engineering  
IK Gujral Punjab Technical University  
Main Campus, Kapurthala (Punjab)-144603

Coordinator



IKGPTU/EE/FDP-2022/48

I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

Main Campus, Kapurthala-144603 (PB)



**CERTIFICATE**

**One-Week National Level AICTE-IKGPTU Sponsored  
Faculty Development Programme**

This is to certify that **Dr. Rakesh Kumar (IKGPTU)** has participated and has successfully completed One-Week AICTE-IKGPTU Sponsored National Level Faculty Development Programme on "**CURRENT TRENDS IN GREEN ENERGY & POWER SYSTEM**" organized by Department of Electrical Engineering at IK Gujral Punjab Technical University, Kapurthala during the period June 03-08, 2022.

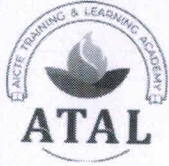
Naam

Dr Naveen Kumar Sharma  
FDP Coordinator

Prof. (Dr.) Y. S. Brar  
FDP Coordinator/Dean PE&P

Head  
Department of Electronics & Communication Engineering  
IK Gujral Punjab Technical University,  
Main Campus, Kapurthala (Punjab) 144603





**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

**Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070**

**AICTE Training and Learning (ATAL) Academy**

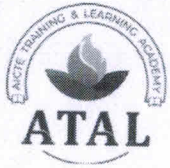
*Certificate*

This is certified that **Barinderjit Singh**, Assistant Professor of I.K.G.Punjab Technical University participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "FDP on Social Entrepreneurship" from 04/10/2021 to 08/10/2021 at Entrepreneurship Development Institute of India.

Advisor-I, ATAL Academy  
Mamta Rani Agarwal



*Barinderjit Singh*  
12/06/21  
Coordinator  
Deptt. of Food Science & Technology  
I.K. Gujral Punjab Technical University  
KAPURTHALA



## ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

### AICTE Training and Learning (ATAL) Academy

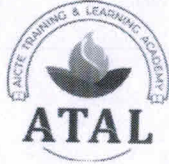
# *Certificate*

This is certified that **Barinderjit Singh**, Assistant Professor of **L.K.G.Punjab Technical University** participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "FDP in Entrepreneurship" from 20/09/2021 to 24/09/2021 at Entrepreneurship Development Institute of India .

Advisor-I, ATAL Academy  
Mamta Rani Agarwal



13/10/22  
Coordinator  
Deptt. of Food Science & Technology  
I.K. Gujral Punjab Technical University  
KAPURTHALA



# ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

## AICTE Training and Learning (ATAL) Academy

# *Certificate*

This is certified that **Barinderjit Singh**, Assistant Professor of I.K.G.Punjab Technical University participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Novel Technological Approaches for Utilization of Food Industry Waste" from 13/09/2021 to 17/09/2021 at National Institute of Food Technology Entrepreneurship and Management (NIFTEM).

Advisor-I, ATAL Academy  
Mamta Rani Agarwal



13/06/23  
Coordinator  
Deptt. of Food Science & Technology  
I.K. Gujral Punjab Technical University  
KAPURTHALA



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training and Learning (ATAL) Academy**

*Certificate*

This is certified that **Barinderjit Singh**, Assistant Professor of **L.K.G.Punjab Technical University** participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Agri Entrepreneurship" from 23/08/2021 to 27/08/2021 at Entrepreneurship Development Institute of India.

Advisor-I, ATAL Academy  
Mamta Rani Agarwal



Head  
Deptt. of Food Science & Technology  
I.K. Gujral Punjab Technical University  
KAPURTHALA

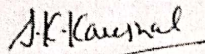
*Barinderjit Singh*  
12/06/23

Coordinator

# “Pay back to society”

## CERTIFICATE OF PARTICIPATION

This is to certify that Mr. Kapil Gupta, Assistant Professor, I. K. Gujral Punjab Technical University, Kapurthala has participated “One Week Online Faculty Development Program on Quantitative Data Analysis” from July 13-17, 2021.



Dr Shailesh K. Kaushal

Organiser & Resource Person, Lucknow



# Certificate of Participation

This is to certify that  
**Kapil Gupta**

has participated in the  
**Online Faculty Development Program  
on Investments & Trading - Concepts & Application**  
with hands-on exposure on NSE SMART Trading Simulator.  
August 31, 2021 & September 1, 2021.

*Abhilash Misra*

Abhilash Misra  
Authorized Signatory  
NSE Academy Limited

*Mehul Mehta*

Mehul Mehta  
Authorized Signatory  
TCS iON

**NAL - TCS iON/FDP/2021-22/000328**

*NSE Academy Limited is a  
wholly owned subsidiary of NSE*

Powered by



Date: September 8, 2021  
Place: Mumbai

*Kapil Gupta*



**I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, JALANDHAR**

**WEBINAR**

Organized by

Department of College Development, IKGPTU

*Certificate of Participation*

*awarded to*

**Dr KAPIL GUPTA**

*for participation in webinar on*

**“NAAC/NBA Accreditation Awareness Workshop”**

*on 15th and 16th July, 2021.*

**(Dr.) Balkar Singh**  
Director  
College Development, IKGPTU

**Er. Sandeep Kumar Kazal**  
Registrar  
IKGPTU

**Prof. (Dr.) Ajay Kumar Sharma**  
Vice Chancellor  
IKGPTU

# CERTIFICATE OF PARTICIPATION

presented to

**Kapil Gupta**

FOR

Attending a webinar on

**AAA of Investing**

ORGANISERS

dtd: 25<sup>th</sup> July 2021



*Kapil*





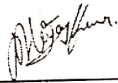
## Certificate of Participation

Presented to

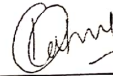
*Kapil Gupta*

for participating in

□ KNOWLEDGE SHARING SESSION on "HOW TO MAXIMIZE SHARED VALUE THROUGH SUSTAINABILITY?"  
as part of Responsible Business Webinar Series (RB Event 03)



**Vijay Kumar Machcha**  
Program Manager  
Responsible Business & CSR, BVIC



**Rahul Bhardwaj**  
Senior Director & Head  
BVIC

*Kapil Gupta*

# CERTIFICATE OF PARTICIPATION

presented to

Kapil Gupta

FOR

Attending a webinar on

## Financial Independence

ORGANISERS

dtd: 8<sup>th</sup> August 2021



A handwritten signature in blue ink, which appears to be 'Rajita', is written over the bottom right corner of the certificate's decorative border.



# Certificate of Participation

presented to

**Kapil**

FOR

Attending a webinar on

Personal Finance Lessons from  
Financial Gurus

ORGANISERS

*dtd: 5<sup>th</sup> September 2021*



*Kapil*



# Certificate of Participation

presented to

**Kapil Gupta**

*for*

*Attending a Webinar on*

**SMART AND RESPONSIBLE INVESTING**

ORGANISERS



dtd: 10<sup>th</sup> October 2021

*Certificate of Participation*

presented to

**Kapil Gupta**

FOR

Attending a webinar on  
**UNION BUDGET & YOU**  
**SIMPLE HABITS OF HAPPY LIFE**

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ORGANISERS

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Aditya Birla Sun Life  
Mutual Fund



*dtd : 6<sup>th</sup> February 2022*



# Certificate of Participation

PRESENTED TO

Kapil Gupta

*for*

*Attending a webinar on*

**FINANCIAL WELL-BEING  
FOR HER**

ORGANISERS

Date : 5th March 2022

**THE WEEK**  
CONNECTIONS TO A BETTER WORLD

Aditya Birla Sun Life  
Mutual Fund

**WILSON BOLA  
CAPITAL**

*Kapil*



# CERTIFICATE OF PARTICIPATION

presented to

**Kapil Gupta**

FOR

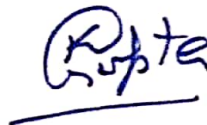
Attending a webinar on

## MAKE YOUR MONEY WORK

ORGANISERS



*Dated : 1<sup>st</sup> May 2022*



Sr. No. IKGPTU/HLCS/1425

PTU

IKG PUNJAB TECHNICAL UNIVERSITY





## Certificat de Langue Française

Il est certifié que Dr. Kapil Gupta  
né (e) le 8 Nov. 1979 a assisté avec succès  
à Sixty heures de cours de français,  
Niveau I, offert par IKG Punjab Technical University.  
La session s'est déroulée du Oct. 2021 au Jan. 2022

## Certificate of French Language

This is to certify that Ms. / Mr. Dr. Kapil Gupta,  
Date of Birth 8 Nov. 1979 has successfully completed  
the Sixty hours, French Language Course  
level I offered by the IKG Punjab Technical University.  
Session of course Oct. 2021 to Jan. 2022

  
Controller Examination

  
Registrar  
17/1/22



NISM

National Institute of Securities Markets  
An Educational Initiative of SEBI

CRISIL  
1Academy



**NISM & CRISIL CERTIFIED**  
**WEALTH MANAGER**  
**Kapil Gupta**

is hereby conferred this certificate upon clearing the  
examination for

**NISM & CRISIL**  
**Certified Wealth Manager programme**

held on  
June 25, 2022

This certificate is valid for a period of three years.

Mr. Sunil Kadam  
Registrar

National Institute of Securities Markets

Mr. Suresh Krishnamurthy  
Business Head - CRISIL Research  
CRISIL Limited





S.No. V...

**I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, JALANDHAR**

**WEBINAR**

Organized by

Department of College Development, IKGPTU

*Certificate of Participation*

*awarded to*

**Dr POOJA MEHTA**

*for participation in webinar on*

**“NAAC/NBA Accreditation Awareness Workshop”**

*on 15th and 16th July, 2021.*

**(Dr.) Balkar Singh**  
Director  
College Development, IKGPTU

**Er. Sandeep Kumar Kazal**  
Registrar  
IKGPTU

**Prof. (Dr.) Ajay Kumar Sharma**  
Vice Chancellor  
IKGPTU



# Estonian Council for Professional Training and Education

Devoted to Promotion of Quality and Standards in Professional Training and Education

## CERTIFICATE OF PARTICIPATION

By this Certificate warrants that  
**DR. RAJPREET KAUR**



Has Participated in the Event of  
**FINANCIAL LITERACY**

17<sup>th</sup> December 2021

Held On



*Rajpreet Kaur*  
Signature & Stamp

*Rajpreet Kaur*



# UGC-HUMAN RESOURCE DEVELOPMENT CENTRE PANJAB UNIVERSITY, CHANDIGARH

## UGC – SPONSORED REFRESHER COURSE

Sr.No. 7270 to 7286/310322

This is to certify that

Sarabjit

Assistant Professor (Punjabi)


Department of HLCS ,I.K. Gujral, Punjab Technical University,  
Kapurthala


Affiliated to I.K. Gujral, Punjab Technical University, Jalandhar, Kapurthala

Participated in the Online - Refresher Course in Indian Languages (*All Indian Languages Disciplines*)  
from 18.03.2022 to 31.03.2022.

Obtained **Grade-A**

  
18/04/2022  
Prof. Baijnath Prasad  
(Coordinator)

  
Prof. (Honorary Director)

  
Prof. Raj Kumar  
(Vice-Chancellor)



# Certificate



This is to certify that **Dr. AMIT HANDA** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on **“Surface Engineering & Coatings: Fundamentals, Practice & Applications”** held during **16.02.2022** to **22.02.2022** organized by **I. K. Gujral Punjab Technical University, Kapurthala, Punjab.**

Director (FDC)  
AICTE, ND

Executive Secretary  
ISTE, ND

Academic Co-ordinator  
IKGPTU Hoshiarpur Campus

Program Coordinator/Dean  
IKGPTU, Kapurthala



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University u/s 3 of UOC Act, 1956)



# SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

School of Computing  
Department of Computational Intelligence

## *Participation Certificate*

This is to certify that Dr/Mr/Mrs Dr Kulwinder Singh Parmar  
of I K Gujral Punjab Technical University

has participated in the Two days National Workshop on "**Deep Learning Based Efficient Code Optimization in Software Engineering**" Organized by Dept of Computational Intelligence , School of Computing , SRM Institute of science and Technology , Kattankulathur on 24th and 25th Feb 2022.

Dr.M.Ferni Ukrit

Convener ,Associate Professor, CINTEL

Academic Co-ordinator  
IKGPTJ Hoshiarpur Campus

Dr. R. Annie Uthra

Professor and Head, CINTEL

No: ATAL/2022/1641304762



## ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

### AICTE Training and Learning (ATAL) Academy

# *Certificate*

This is certified that **Kulwinder Singh Parmar**, Assistant Professor of **IK Gujral Punjab Technical University** participated & completed successfully AICTE Training And Learning (ATAL) Academy **Online Elementary** FDP on "**Current Trends and Future Prospects in Data Science**" from **10/01/2022** to **14/01/2022** at **Central University of Rajasthan**.

Advisor-I, ATAL Academy  
Mamta Rani Agarwal



Academic Co-ordinator

Academic Co-ordinator  
IKGPTJ Hoshiarpur Campus



# Certificate of Participation

ONE WEEK FACULTY DEVELOPMENT PROGRAMME  
ON

**RESEARCH ESSENTIALS**

**31<sup>st</sup> January, 2022 - 5<sup>th</sup> February, 2022**

This is certify that

Mr./Ms. **DR. KULWINDER SINGH**

of **I K Gujral Punjab Technical University**

Actively participated in One Week **Faculty Development Programme** on "**Research Essentials**"

organized by Department of Computer Science & Engineering held from **31<sup>st</sup> Jan. - 5<sup>th</sup> Feb., 2022**

at Chandigarh University, Gharuan, Mohali, Punjab (India).

**Prof. (Dr.) Sandeep Singh Kang**  
Professor - CSE

**Prof. (Dr.) Sameeruddin Khan**  
Executive Director - CSE

Academic Co-ordinator  
IKGPTJ Hoshiarpur Campus

**Prof. (Dr.) Priestly Shan**  
Dean Academic Affairs





डा० बी० आर० अम्बेडकर राष्ट्रीय प्रौद्योगिकी संस्थान, जालंधर  
Dr. B. R. Ambedkar National Institute of Technology, Jalandhar  
बाई पास जी०टी० रोड, जालंधर – १४४०११, पंजाब (भारत)  
Bye pass G. T. Road, Jalandhar – 144 011, Punjab (India)



One week online workshop  
on

## Statistical Techniques for Data Analysis

(22/11/2021 to 26/11/2021)

### *Certificate of Participation*

This is to certify that **Dr. Kulwinder Singh Parmar** has participated in the DST-SERB sponsored one week online workshop on “**Statistical Techniques for Data Analysis**” from **22/11/2021** to **26/11/2021**, organized by Department of Physics, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab (India).

Dr. Arvind Kumar  
(Convener)

Dr. Harleen Dahiya  
(Coordinator)

Academic Co-ordinator  
IKGPTJ Hoshiarpur Campus

Dr. Suneel Dutt  
(Coordinator)



## ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

### AICTE Training and Learning (ATAL) Academy

# *Certificate*

This is certified that **Kulwinder Singh Parmar**, Assistant Professor of **IK Gujral Punjab Technical University** participated & completed successfully AICTE Training And Learning (ATAL) Academy **Online Elementary FDP** on "**Advanced Mathematical Techniques in Engineering and Technology**" from **18/10/2021** to **22/10/2021** at **Maharshi Dayanand University Rohtak**.

Advisor-I, ATAL Academy  
Mamta Rani Agarwal



Academic Co-ordinator  
IKGPTU Hoshiarpur Campus

Coordinator



# I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, JALANDHAR



in Collaboration with

**Shiksha Sanskriti Utthan Nyas (SSUN), New Delhi**

Organizes

## **FIVE DAY WEBINAR SERIES**

***“Implementation of National Education Policy (NEP) 2020”***

*held on 18th - 24th August, 2021.*

***Certificate of Participation***

*awarded to*

**KULWINDER SINGH PARMAR, ASSISTANT PROFESSOR**

**I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY CAMPUS, HOSHIARPUR**

**Prof. (Dr.) Vikas Chawla**  
Dean (Academics)  
IKGPTU

**Prof. (Dr.) Ajay Kumar Sharma**  
Vice Chancellor  
IKGPTU

**Academic Co-ordinator**  
IKGPTU Hoshiarpur Campus



# POORNIMA

## COLLEGE OF ENGINEERING

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NBA

**FIVE DAYS INTERNATIONAL FACULTY DEVELOPMENT PROGRAMME**

On

**“Emerging Trends in AI and Data Science Applications”**

Organized by

Department of Computer Engineering

### **CERTIFICATE OF PARTICIPATION**

*This is to certify that **Dr. KULWINDER SINGH PARMAR** from **I K Gujral Punjab Technical University** has participated in the Five Days International Faculty Development Programme (FDP) on **“Emerging Trends in AI and Data Science Applications”** held from 12/12/2022 to 16/12/2022 at “Poornima College of Engineering, Jaipur”.*

Dr. Nikita Jain  
Convenor-FDP  
PCE, Jaipur

Mr. Manish Dubey  
Convenor-FDP  
PCE, Jaipur

Dr. Kamlesh Gautam  
Coordinator-FDP  
PCE, Jaipur

Academic Co-ordinator  
IKGPTJ Hoshiarpur Campus

Mr. Manish Choubisa  
Coordinator-FDP  
PCE, Jaipur

Prof. (Dr.) Mahesh Bundeale  
Principal and Director  
PCE, Jaipur



# Certificate



This is to certify that **Dr. SUNIL KUMAR MAHLA** has successfully completed the AICTE-ISTE approved Orientation/Refresher Programme on “**Surface Engineering & Coatings: Fundamentals, Practice & Applications**” held during **16.02.2022** to **22.02.2022** organized by **I. K. Gujral Punjab Technical University, Kapurthala, Punjab.**

Director (FDC)  
AICTE, ND

Executive Secretary  
ISTE, ND

Program Coordinator/Dean  
IKGPTU, Kapurthala

Academic Co-ordinator  
IKGPTU Hoshiarpur Campus

No.: BFCET/CE/003



# AICTE-MRSPTU SPONSORED SIX DAYS FACULTY DEVELOPMENT PROGRAMME



on

**Waste Management & Environmental Protection for Sustainable Development**

(10<sup>th</sup> January to 15<sup>th</sup> January 2022)

## CERTIFICATE OF PARTICIPATION

This is certified that Rinku Walia from IKGPTU Hoshiarpur Campus has successfully attended AICTE-MRSPTU sponsored Six Days Online Faculty Development Programme on Waste Management & Environmental Protection for Sustainable Development from 10<sup>th</sup> January to 15<sup>th</sup> January 2022, organized by the **Department of Civil Engineering, Baba Farid College of Engineering and Technology, Bathinda (Punjab).**

(Er Pankaj Mittal)  
Programme Coordinator

**BABA FARID**  
**GROUP OF INSTITUTIONS**

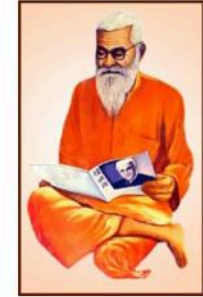
Bathinda, Punjab (India)

Academic Co-ordinator  
IKGPTU Hoshiarpur Campus

Dr Jayoti Bansal)  
Principal



**5 – Day Faculty Development Program**  
**on**



**“Transportation Geotechnics and Materials for Sustainable Infrastructure (TGMSI – 2021)”**

**Organised by**  
**(Department of Civil Engineering & Centre for Transportation Engineering)**  
**Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur**

**Certificate**

Ref No.: SKIT/CE/TGMSI-2021/ 36

This is to certify that **Dr./Mr./Ms.** Dr Rinku Walia of IKGPTU Hoshiarpur campus

has participated in 5 - Day FDP on **“Transportation Geotechnics and Materials for Sustainable Infrastructure (TGMSI – 2021)”** held from 13/12/2021 to 17/12/2021 at Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur.

Dr. D. K. Sharma  
HOD - CE & Coordinator  
(SKIT, Jaipur)

Mr. Nishant Sachdeva  
Coordinator  
(SKIT, Jaipur)

Dr. Prachi Kushwaha  
Coordinator  
(SKIT, Jaipur)

Academic Co-ordinator  
IKGPTU Hoshiarpur Campus

Dr. Ramesh Kumar Pachar  
Principal  
(SKIT, Jaipur)



Certificate No: QIP/609/2021-22

**National Institute of  
Technical Teachers Training and Research  
Chandigarh**

**MINISTRY OF EDUCATION, GOVERNMENT OF INDIA**

**Certificate**

This is to certify that

**DR RINKU WALIA**

**IKG PUNJAB TECHNICAL UNIVERSITY HOSHIARPUR CAMPUS,  
IKGPTU HOSHIARPUR**

*Participated in the AICTE sponsored QIP Short Term Course*

on

***Smart Cities: Opportunities and Challenges***

from

**25/10/2021 to 30/10/2021 (One Week)**

*Conducted online by*

**Civil Engineering Department  
NITTTR, Chandigarh**

Co-ordinator

Head of the  
Department

The Director

Academic Co-ordinator  
IKGPTU Hoshiarpur Campus





Certificate No : 7538/21-22

**National Institute of  
Technical Teachers Training and Research  
Chandigarh**

**MINISTRY OF HUMAN RESOURCE DEVELOPMENT, GOVERNMENT OF INDIA**

**Certificate**

*This is to certify that*

**DR. SHASHI BAHL**

**I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY HOSHIARPUR CAMPUS,  
HOSHIARPUR  
PUNJAB**

*Participated in the Online AICTE Recognized Faculty Development Programme*

**on**

**Nano sensors and Devices**

**from**

**02/08/2021 to 06/08/2021 (one Week)**

*Conducted by*

**Applied Science Department**

**NITTTR, Chandigarh**



Co-ordinator

Head of the  
Department

Academic Co-ordinator  
IKGPTJ Hoshiarpur Campus

Director

पंजी. क्र. MEE-8/2021-2022/39560  
Regd. No.



आई.डी. क्र. TP-18803  
ID No.

राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं  
अनुसंधान संस्थान, भोपाल  
(शिक्षा विभाग, भारत सरकार)

National Institute of Technical Teachers'  
Training and Research, Bhopal  
(Ministry of Education, Govt. of India)

प्रमाणपत्र  
Certificate

यह प्रमाणपत्र  
इस संस्थान द्वारा आयोजित लघु अवधि प्रशिक्षण कार्यक्रम  
सफलता पूर्वक पूर्ण करने पर प्रदान किया जाता है।

This certificate is awarded to  
DR. SHASHI BAHL


I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, HOSHIARPUR CAMPUS

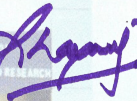
for successfully completing the short term training programme conducted by this institute.

प्रशिक्षण विषय : AUTOMATION IN MANUFACTURING INDUSTRIES  
Programme Title:

अवधि/Duration : 09-08-2021 to 13-08-2021

स्थान/Venue : Online

  
समन्वयक  
Co-ordinator

  
निदेशक  
Director

दिनांक/Date : 03-09-2021

  
Academic Co-ordinator  
IKGPTJ Hoshiarpur Campus

Certificate No.: ME/FEMMAE-22/01



**Dr B R Ambedkar National Institute Of Technology Jalandhar**  
**G T Road Bye Pass, Jalandhar-144011, Punjab (India)**  
**(An Institution of National Importance)**

## Certificate of Participation

This is to certify that

**Dr SHASHI BAHL**

From

**I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY**  
**HOSHIARPUR CAMPUS**

has attended and successfully completed One Week Online Faculty Development Program (FDP) / Short Term Course on “*FEM and Modal Analysis in Engineering*” (FEMMAE-22) held from 11<sup>th</sup> –15<sup>th</sup> March, 2022, organized by Department of Mechanical Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab, India.

Dr Manoj Kumar  
Course Coordinator

Dr Ashok Kumar  
Course Coordinator

Academic Co-ordinator  
IKGPTJ Hoshiarpur Campus

Dr Pramod Kumar  
HOD, ME



**National Institute of  
Technical Teachers Training and Research  
Chandigarh**

(MINISTRY OF EDUCATION, GOVERNMENT OF INDIA)

**Certificate**

**VIKRAMJEET SINGH**

**IKGPTU Amritsar Campus**

participated in Two-days Workshop on

on

**Renewable Energy: Materials & Devices**  
from

**03/02/2022 to 04/02/2022**

conducted online by

**Department of Applied Science, NITTTR Chandigarh  
and IKG PTU, Amritsar Campus**

Coordinator

Head of the Department

Director

JKTU Punjab Technical University  
Amritsar Campus  
Near Cipt College, Polytechnic Road,  
Chichearta, Amritsar-Punjab-143105  
Ph. 0183-2450034  
Email: campus.amritsar@jktu.ac.in



**I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY,  
JALANDHAR**

in Collaboration with

**Shiksha Sanskriti Utthan Nyas (SSUN), New Delhi**  
Organizes

**FIVE DAY WEBINAR SERIES**

**"Implementation of National Education Policy (NEP) 2020"**

held on 18th - 24th August, 2021.

*Certificate of Participation*

awarded to

**VIPUL SHARMA, ASSISTANT PROFESSOR**

I.K. Gujral Punjab Technical University  
Amritsar Campus  
Near Cipet College, Polytechnic Road,  
Chhaharta, Amritsar-Punjab-143105  
Ph. 0183-2450034  
E-mail: campus.amritsar@ptu.ac.in

**Prof. (Dr.) Vikas Chawla**  
Dean (Academics)  
IKGPTU

**Prof. (Dr.) Ajay Kumar Sharma**  
Vice Chancellor  
IKGPTU



**National Institute of  
Technical Teachers Training and Research  
Chandigarh**

(MINISTRY OF EDUCATION, GOVERNMENT OF INDIA)

**Certificate**

**PRABHKIRAN KAUR**

*IKGPTU, Amritsar Campus, Punjab.*

participated in Two-days Workshop on

on

**Renewable Energy: Materials & Devices**  
from

**03/02/2022 to 04/02/2022**

conducted online by

**Department of Applied Science, NITTTR Chandigarh  
and IKG PTU, Amritsar Campus**

Coordinator

Head of the Department

Director

Ref: SLIET/ME/R&A/7



Date: 31/7/2021

संत लौंगोवाल अभियांत्रिकी एवं प्रौद्योगिकी संस्थान

(समकक्ष विश्वविद्यालय; शिक्षा संत्रालय, भारत सरकार के अधीन)

Sant Longowal Institute of Engineering & Technology  
Longowal, District Sagur - 148106 (Punjab), India  
(Deemed-to be-University under Ministry of Education, Govt. of India)

Short Term Course

on

## ROBOTICS AND AUTOMATION 2021

JULY 26-30, 2021

Certification of Participation

This is to certify that *prof./Dr./Mr./Ms.* Prabhkiran Kaur  
from IKGPTU AMRITSAR CAMPUS

has attended one week Short Term Course on "Robotics and Automation"  
Organized by Department of Mechanical Engineering, SLIET, Longowal during  
July 26-30, 2021.

(Dr. Sunil Kumar)

Coordinator



**National Institute of  
Technical Teachers Training and Research  
Chandigarh**

(MINISTRY OF EDUCATION, GOVERNMENT OF INDIA)

**Certificate**

**VIPUL SHARMA**

*I.K. Gujral Punjab Technical University*

participated in Two-days Workshop on

on

**Renewable Energy: Materials & Devices**  
from

**03/02/2022 to 04/02/2022**

conducted online by

**Department of Applied Science, NITTTR Chandigarh  
and IKG PTU, Amritsar Campus**

Coordinator

Head of the Department

Director

**I.K. Gujral Punjab Technical University**  
Amritsar Campus  
Near Cipt College, Polytechnic Road,  
Chuharta, Amritsar-Punjab-143105  
Ph. 0183-2450034  
Email: campus.amritsar@ptu.ac.in



Annexure – 6.3.4 a

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP) during the last five years

(Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.,) (8)

Dr. Neeru Singla	5 Day FDP on "Transportation Geotechnics and Materials for Sustainable Infrastructure (TGMSI-2021)" organized by Swami Keshvanand Institue of Technology, Management and Gramothan, Jaipur	13/12/2021 to 17/12/2021
Dr. Neeru Singla	AICTE-MRSPTU sponsored Six days FDP on "Waste Management and Environmental Protection for Sustainable Development" Organized by CED, Baba Farid College of Engineering and Technology, Bathinda (Punjab)	10/01/2022 to 15/01/2022
Ar. Jyoti Singh	Five day Capacity BuildinĀ ProĀram (CBP) on "Effective Online TeachinĀ, Assessment & Communication Skills" jointly orĀanized by Bhartiya Skill Development University (BSDU) Jaipur and the Commonwealth Education Media Center ĩor Asia (CEMCA)	31st May to 4th June 2021.
Ar. Jyoti Singh	one week (online) Faculty Development Program on "Product and Process Innovation: Concepts, Protection and Commercialization", organized by Chandigarh Engineering College, CGC Landran, Mohali and Design Innovation Center (DIC), Indian Institute of Technology Roorkee, Roorkee	June 21-25, 2021
Ar. Jyoti Singh	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Pedagogical Process in Architecture – An Orientation for Young Teaching Fraternity" 2021-07-12 to 2021-07-16 at School of Planning and Architecture Vijayawada (An institute of National Importance).	2021-07-12 to 2021-07-16
Ar. Jyoti Singh	AICTE sponsored one week online training program for teacher on "Smart Cities: Opportunities and Challenges, Deenbandhu Chhotu Ram University of Science and Technology	08th to 13th August, 2021
Ar. Jyoti Singh	Architecture Design Studio - Exploration and Experimation on Design Processby SAID & SRM TN	13-09-21 To 17-09-21



Director

I.K.G.P.T.U

Campus-II

Ar.Damandeep Kaur	one-week online FDP on "Research Publication Trends and Ethics in Art, Design & Architecture" organized by Chitkara University.	05-07-2021 to 09-07-2021
	one-week online Elementary FDP on "Pedagogical Process in Architecture-An Orientation for Young Teaching Fraternity" organized by SPA Vijaywada with ATAL Academy.	12-07-2021 to 16-07-2021
	4-week Faculty induction/orientation Programme organized by Teaching Learning Centre, Ramanujan College, and University of Delhi.	21-08-2021 to 19-09-2021
	one-week online Executive Development Programme on "Quantitative tools for Qualitative Research in planning & Design" organized by Manipal University Jaipur	06-12-2021 to 10-12-2021
	2-week Inter-Disciplinary Refresher Course on "Managing Online Classes & Co-relating MOOCS" organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education.	07-02-2022 to 21-02-2022



Director  
I.K.G.P.T.U  
Mohali Campus-II



5 - Day Faculty Development Program

on

**"Transportation Geotechnics and Materials for Sustainable Infrastructure (TGMSI - 2021)"**



Organised by  
(Department of Civil Engineering & Centre for Transportation Engineering)  
Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur


# Certificate


Ref No.: SKIT/CE/TGMSI-2021/ 100


This is to certify that Dr. M. M. \_\_\_\_\_ of \_\_\_\_\_  
IKGPTU

has participated in 5 - Day FDP on "Transportation Geotechnics and Materials for Sustainable Infrastructure (TGMSI - 2021)" held from 13/12/2021 to 17/12/2021 at Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur.

  
Dr. D. K. Sharma  
HOD - CE & Coordinator  
(SKIT, Jaipur)

  
Mr. Nishant Sachdeva  
Coordinator  
(SKIT, Jaipur)

  
Dr. Prachi Kushwaha  
Coordinator  
(SKIT, Jaipur)

  
Dr. Ramesh Kumar Pachar  
Principal  
(SKIT, Jaipur)

  
Director  
I.K.G.P.T.U  
Mahali Campus-II



AICTE-MRSPTU SPONSORED SIX DAYS  
FACULTY DEVELOPMENT PROGRAMME  
ON

Waste Management & Environmental Protection for Sustainable Development

(10<sup>th</sup> January to 15<sup>th</sup> January 2022)

**CERTIFICATE OF PARTICIPATION**

This is certified that Neeru Singla from I KGPTE Mohali Campus II has successfully attended AICTE-MRSPTU sponsored Six Days Online Faculty Development Programme on Waste Management & Environmental Protection for Sustainable Development from 10<sup>th</sup> January to 15<sup>th</sup> January 2022, organized by the Department of Civil Engineering, Baba Farid College of Engineering and Technology, Bathinda (Punjab).

*Pankaj Mittal*

(Er Pankaj Mittal)  
Programme Coordinator

**BABA FARID**  
**GROUP OF INSTITUTIONS**  
Bathinda, Punjab (India)

*Dr. Jayoti Kaursally*

(Dr. Jayoti Kaursally)  
Principal

**I.K.G.P.T.U**

**Mohali Campus-II**



# CERTIFICATE OF PARTICIPATION

This Certificate is Awarded to

**Jyoti Singh**

**IKG Punjab technical university**

For successfully completing the Five day Capacity Building Program (CBP) on "Effective Online Teaching, Assessment & Communication Skills" jointly organized by Bhartiya Skill Development University (BSDU) Jaipur and the Commonwealth Education Media Center for Asia (CEMCA) conducted from 31<sup>st</sup> May to 4<sup>th</sup> June 2021.

  
\_\_\_\_\_

**Dr. Rajdeep Deb**  
Head SES, BSDU Jaipur

  
\_\_\_\_\_

**Mr. Saurabh Mishra**  
Programme Officer, CEMCA

  
**Director**  
**I.K.G.P.T.U**  
**Mohali Campus-II**

Certificate ID: CBP-2021-136



नवोन्मेष

DESIGN INNOVATION CENTER

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

(A center under the Scheme "NID" of MOE, Government of India)



Ministry of Education  
Government of India

Faculty Development Program on

'Product and Process Innovation: Concepts, Protection and Commercialization'

June 21-25, 2021

*Certificate of Participation*

This is to certify that Dr./Mr./Ms. *Jyoti Singh* a faculty of *IKG Punjab Technical University, Jalandhar* has participated in one week (online) Faculty Development Program on "Product and Process Innovation: Concepts, Protection and Commercialization", organized by Chandigarh Engineering College, CGC Landran, Mohali and Design Innovation Center (DIC), Indian Institute of Technology Roorkee, Roorkee -247667.



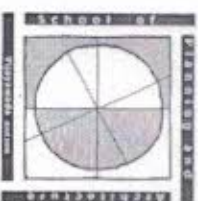
Scan to Verify

**Prof. Inderdeep Singh**

Coordinator, Design Innovation Center  
Indian Institute of Technology Roorkee

\*This certificate is issued digitally and no signature is required\*

  
**Director**  
**I.K.G.P.T.U**  
**Mohali Campus-II**



No: ATAL/2021/1622451738

## ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training And Learning (ATAL) Academy**

### Certificate

This is certified that Jyoti Singh, Assistant Professor of IKG PTU participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Pedagogical Process in Architecture – An Orientation for Young Teaching Fraternity" from 2021-07-12 to 2021-07-16 at School of Planning and Architecture Vijayawada (An Institute of National Importance).



**Director**  
**I.K.G.P.T.U**  
**Mohali Campus-II**

Adviser-I, ATAL Academy

Coordinator



AICTE - DCRUST MURTHAL  
ONLINE TRAINING PROGRAM FOR TEACHERS  
ON



SMART CITIES: OPPORTUNITIES AND CHALLENGES  
AUGUST 08, 2021 TO AUGUST 13, 2021

Participation Certificate

This is to certify that

Ar. Jyoti Singh, Assistant Professor, Department of Architecture, IKG Punjab Technical University, Punjab has participated in AICTE sponsored one week online training program for teacher on "Smart Cities: Opportunities and Challenges" held from 08<sup>th</sup> to 13<sup>th</sup> August, 2021.

Organized by  
DEPARTMENT OF ARCHITECTURE

Deenbandhu Chhotu Ram University of Science and Technology

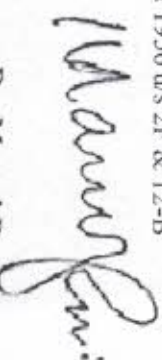
Murthal (Sonapat):131039 (Haryana) India (A Haryana State Government University, Accredited 'A' Grade by NAAC)  
Established by the Legislature of the State of Haryana Act No. 29 of 2006 & Recognized by UGC Act 1956 w/s 2F & 12-B



Prof. (Dr) Chitrarekha Kabre  
University Coordinator  
Director, IQAC



Prof. (Dr) Parveen Kumar  
Chairperson,  
Department of Architecture



Dr. Manoj Panwar  
Programme Coordinator  
Department of Architecture



I.K.G.P.T.U.  
Director  
Mohali Campus-II





# Certificate of Participation

*This certificate is proudly presented to*

## Ar. Jyoti Singh

Actively participated in the 5 days Virtual Faculty Development Program on  
"Architectural Design Studio - Exploration and Experimentation in  
Design Process"

from 13.09.2021 - 17.09.2021 by Department of Architecture,  
School of Architecture and Interior Design, SRMIST, Kattankulathur, TN

A handwritten signature in black ink, appearing to read 'Pradeepa'.

Dr. C. Pradeepa  
CONVENOR



A handwritten signature in black ink, appearing to read 'Sathesh'.

Dr. P. Sathesh Kumar  
CHAIRPERSON

Director  
I.K.A.P.T.U  
MADRAS CAMPUS-II

DR. ARCHANA MANTRI  
Vice Chancellor  
Chitkara University, Punjab

PROF. (DR.) AMBUJ KUMAR  
Director- Chitkara School of Planning & Architecture  
Chitkara University, Punjab

DR. AMIT MITTAL  
Dean- Doctoral Research Centre  
Chitkara Business School  
Chitkara University, Punjab

PROF. (DR.) RANJAN KUMAR MALLI  
Dean- Chitkara Design School  
Chitkara University, Punjab

Director  
I.K.G.P.T.U  
Mohali Campus-II

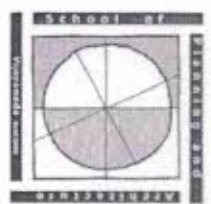
# CERTIFICATE OF PARTICIPATION

This is to certify that Dr./ Mr./ Ms. Damandeep Kaur has participated in 5 days Faculty Development Program, 'Research Trends and Ethics in Art, Design & Architecture',

organised by

Chitkara School of Planning and Architecture & Chitkara Design School, Chitkara University, Punjab in collaboration with the Institution's Innovation Council, India from 05 July to 09 July, 2021.





No: ATAL/2021/1625897879

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

**AICTE Training And Learning (ATAT) Academy**

*Certificate*

This is certified that Damandeep Khattran, Assistant Professor of IKG PTU Mohali Campus-II participated & completed successfully AICTE Training And Learning (ATAT) Academy Online Elementary FDP on "Pedagogical Process in Architecture – An Orientation for Young Teaching Fraternity" from 2021-07-12 to 2021-07-16 at School of Planning and Architecture Vijayawada (An Institute of National Importance).

Adviser-I, ATAT Academy



Director

I.K.G.PTU

Mohali Campus-II

Coordinator



## Teaching Learning Centre, Ramanujan College

### University of Delhi

under the aegis of

MINISTRY OF EDUCATION

PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING



This is to certify that

Ms. Damandeep Kaur, Assistant Professor(Architecture)

of

I.K. Gujral Punjab Technical University Mohali Campus-II, Mohali, Punjab  
successfully completed a 4-Week Induction/Orientation Programme for

**“Faculty in Universities/Colleges/Institutes of Higher Education”**

from 21 August – 19 September, 2021 and obtained

Grade A+.



Blockchain Hash: [0x30ca229b0ad23d3317a40d6d0b15967327a6b1fafe72ff33d6ca3c7d1c199904](https://www.blockchain.com/eth/tx/0x30ca229b0ad23d3317a40d6d0b15967327a6b1fafe72ff33d6ca3c7d1c199904)

Prof. S. P. Aggarwal  
(Principal & Director)  
TLC, Ramanujan College

**Director**  
**I.K.G.P.T.U**  
**Mohali Campus-II**

Dr. Nikhil Kr. Rajput  
(Programme Director)  
Ramanujan College



MANIPAL UNIVERSITY  
JAIPUR

MUJ

# Certificate of Participation

This is to certify that


Damandeep Kaur from

IKG PTU Mohali Campus II, Punjab

has successfully completed the  
**Executive Development Programme**

On

“Quantitative Tools for Qualitative Research in  
Planning & Design”  
06th – 10th December 2021

  
Director  
IKG.PTU  
Campus-II

  
Prof. (Dr.) Sampath Kumar  
Director, School of Planning & Design

  
Prof. (Dr.) Madhura Yadav  
Dean, Faculty of Design



Teaching Learning Centre, Ramanujan College  
 University of Delhi  
 under the aegis of  
 MINISTRY OF EDUCATION  
 PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING



This is to certify that

Ms. Damandeep Kaur, Assistant Professor(Architecture)

of

I.K. Gujral Punjab Technical University Mohali Campus-II, Mohali, Punjab  
 successfully completed a 4-Week Induction/Orientation Programme for

“Faculty in Universities/Colleges/Institutes of Higher Education”

from 21 August – 19 September, 2021 and obtained

Grade A+.



Blockchain Hash: 0x30ca22900ad23d3317a40d0db15967327a6b1afec2ff33afca3c7d1ca199904

*Handwritten signature*

Prof. S. P. Aggarwal  
 (Principal & Director)  
 TLC, Ramanujan College

*Handwritten signature*

Dr. Nikhil Kr. Rajput  
 (Programme Director)  
 Ramanujan College

**Director**  
**I.K.G.R.T.U**  
**Mohali Campus-II**

No.: BPCET/CE/017



AICTE-MRSPTU SPONSORED SIX DAYS  
FACULTY DEVELOPMENT PROGRAMME



on

Waste Management & Environmental Protection for Sustainable Development  
(10<sup>th</sup> January to 15<sup>th</sup> January 2022)

# CERTIFICATE OF PARTICIPATION

This is certified that Neeru Singla from IKGPTU Mohali Campus II has successfully attended AICTE-MRSPTU sponsored  
Six Days: Online Faculty Development Programme on Waste Management & Environmental Protection for Sustainable  
Development from 10<sup>th</sup> January to 15<sup>th</sup> January 2022, organized by the Department of Civil Engineering, Baha Farid College  
of Engineering and Technology, Bathinda (Punjab).

*Neeru Singla*

(Dr. Parkash Mittal)  
Programme Coordinator

**BABA FARID**  
GROUP OF INSTITUTIONS

Bathinda, Punjab (India)

*(Signature)*

Director  
IKG.PTU  
Mohali Campus-II



# CERTIFICATE OF PARTICIPATION

This Certificate is Awarded to

**Jyoti Singh**

**IKG Punjab technical university**

For successfully completing the Five day Capacity Building Program (CBP) on "Effective Online Teaching Assessment & Communication Skills" jointly organized by Bhartiya Skill Development University (BSDU) Jaipur the Commonwealth Education Media Center for Asia (CEMCA) conducted from 31<sup>st</sup> May to 4<sup>th</sup> June 2021.

Dr. Rajdeep Deb  
Head SES, BSDU Jaipur

Mr. Saurabh Mishra  
Programme Officer, CEMCA

Director

IKG.PUNJAB

Manoj Sarangshah

Certificate ID: CBP-2021





नवोन्मेष

DESIGN INNOVATION CENTER

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

(A center under the Scheme "NIDI" of MOE, Government of India)



सत्यमेव जयते

Ministry of Education  
Government of India

Faculty Development Program on

'Product and Process Innovation: Concepts, Protection and Commercialization',  
June 21-25, 2021

*Certificate of Participation*

This is to certify that Dr./Mr./Ms. Jyoti Singh a faculty of IKG Punjab Technical University, Jalandhar has participated in one week (online) Faculty Development Program on "Product and Process Innovation: Concepts, Protection and Commercialization", organized by Chandigarh Engineering College, CGC Landran, Mohali and Design Innovation Center (DIC), Indian Institute of Technology Roorkee, Roorkee -247667.



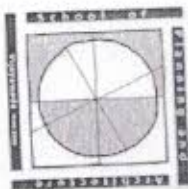
Scan to Verify

Prof. Inderdeep Singh

Coordinator, Design Innovation Center  
Indian Institute of Technology Roorkee

L.K.G.P.T.U.

Mohali Campus-II



No:AT/AL/2021/1/622451738

# ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi - 110 070

## AICTE Training And Learning (ATL) Academy

### Certificate

This is certified that Jyoti Singh, Assistant Professor of IKG-PTU participated & completed successfully AICTE Training And Learning (ATL) Academy Online Elementary FDP on "Pedagogical Process in Architecture An Orientation for Young Teaching Fraternity" from 2021-07-12 to 2021-07-16 at School of Planning and Architecture Vjayawada (An Institute of National Importance).

Director Coordinator

Adviser-I, ATL Academy



Mohali Campus-2



AICTE - DCRUST MURTHAL  
ONLINE TRAINING PROGRAM FOR TEACHERS  
ON



**SMART CITIES: OPPORTUNITIES AND CHALLENGES**  
AUGUST 08, 2021 TO AUGUST 13, 2021

**Participation Certificate**

This is to certify that

**Ar. Jyoti Singh**, Assistant Professor, Department of Architecture, IKG Punjab Technical University, Punjab 1 participated in AICTE sponsored one week online training program for teacher on "Smart Cities: Opportunities

Challenges" held from 08<sup>th</sup> to 13<sup>th</sup> August, 2021.

Organized by  
DEPARTMENT OF ARCHITECTURE

**Deenbandhu Chhotu Ram University of Science and Technology**

Murthal (Sonapat)-131039 (Haryana) India *1A Haryana State Government University, Accredited 'A' Grade by NAAC*  
Established by the Legislature of the State of Haryana Act No. 29 of 2006 & Recognized by UGC Act 1956 w/s 2F & 12-B

*Chitrarekha Kabre*

*Parveen Kumar*

*Manoj Panwar*

**Prof. (Dr) Chitrarekha Kabre**  
University Coordinator  
Director, IQAC

**Prof. (Dr) Parveen Kumar**  
Chairperson,  
Department of Architecture

**Dr. Manoj Panwar**  
Programme Coordinator,  
Department of Architecture  
I.K.G.P.T.U. Department of Architecture  
Mahali Campus-A



# Certificate of Participation

*This certificate is proudly presented to*

## Ar. Jyoti Singh

Actively participated in the 5 days Virtual Faculty Development Program on  
"Architectural Design Studio - Exploration and Experimentation in  
Design Process"

from 13.09.2021 - 17.09.2021 by Department of Architecture,  
School of Architecture and Interior Design, SRMIST, Kattankulathur, TN

Dr. C. Pradeepa

CONVENOR

Dr. P. Sathesh Kumar

CHAIRPERSON

**I.K.G.P.T.U**  
Director  
Mofali Campus



# CERTIFICATE OF PARTICIPATION

This is to certify that Dr./ Mr./ Ms. Damandeep Kaur

has participated in 5 days Faculty Development Program from IKG PTU MC-II

'Research Trends and Ethics in Art, Design & Architecture'

organised by

Chitkara School of Planning and Architecture & Chitkara Design School, Chitkara University, Punjab

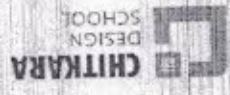
in collaboration with the Institution's Innovation Council, India from 05 July to 09 July, 2021.

**DR. ARCHANA MANTRI**  
Vice Chancellor  
Chitkara University, Punjab  
*Archana Mantri*

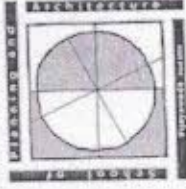
**PROF. (DR.) AMBUJ KUMAR**  
Director- Chitkara School of Planning & Architecture  
Chitkara University, Punjab  
*Ambuj Kumar*

**DR. AMIT MITTAL**  
Dean- Doctoral Research Centre  
Chitkara Business School  
Chitkara University, Punjab  
*Amit Mittal*

**PROF. (DR.) RANJAN KUMAR MALIK**  
Dean- Chitkara Design School  
Chitkara University, Punjab  
*Ranjan Malik*



No:ATAL/2021/1625897879



# ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

## AICTE Training And Learning (ATAL) Academy

### Certificate

This is certified that Damandeep Khattran, Assistant Professor of IKG PTL Mohali Campus-II participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elemenary FDP on "Pedagogical Process in Architecture – An Orientation for Young Teaching Fraternity" from 2021-07-12 to 2021-07-16 at School of Planning and Architecture Vijayawada (An Institute of National Importance).

*Handwritten signature of the Adviser-I, ATAL Academy.*

Adviser-I, ATAL Academy

*Handwritten signature of the Director, IKG PTL Mohali Campus-II.*

Director  
IKG PTL  
Coordinator  
Mohali Campus-II





# Teaching Learning Centre, Ramanujan College University of Delhi

under the aegis of  
MINISTRY OF EDUCATION

PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING



This is to certify that

Ms. Damandeep Kaur, Assistant Professor(Architecture)

of

I.K. Gujral Punjab Technical University Mohali Campus-II, Mohali, Punjab  
successfully completed a 4-Week Induction/Orientation Programme for

**“Faculty in Universities/Colleges/Institutes of Higher Education”**

from 21 August – 19 September, 2021 and obtained

Grade A+.



Blockchain Hash: dx30ra29b0sd23d337a40add0b159c7327a6b1fa1ee72ff33dfe3e7d1c199904

*S. P. Aggarwal*

Prof. S. P. Aggarwal  
(Principal & Director)  
TLC, Ramanujan College

*N. K. Rajput*

Dr. Nikhil Kr. Rajput  
(Programme Director)  
Ramanujan College

*[Signature]*

**I.K.G.P.T.U.**  
Mohali Campus-II



MANIPAL UNIVERSITY  
JAIPUR

# Certificate of Participation

This is to certify that

Damandeep Kaur from  
IKG PTU Mohali Campus II, Punjab

has successfully completed the  
**Executive Development Programme**

On

“Quantitative Tools for Qualitative Research in  
Planning & Design”

06<sup>th</sup> - 17<sup>th</sup> December 2021

Prof. (Dr.) Sampath Kumar  
Director, School of Planning & Design



Prof. (Dr.) Anadhura Yadav  
I.K.G. P.T.U. Mohali Campus-II  
Faculty of Design



MUJ



**I.K. Gujral Punjab Technical University, Kapurthala**  
**Department of Chemical Sciences**

**Report**

AICTE and IKGPTU sponsored one week Faculty Development Programme on  
**“Advancements in the Methodologies for the development of Synthetic Materials”**  
**06.06.2022-11.06.2022**

An AICTE and IKGPTU sponsored one week Faculty Development Programme on **“Advancements in the Methodologies for the development of Synthetic Materials”** was conducted by the Department of Chemical Sciences during the **06.06.2022-11.06.2022**. A total of 45 participants from Punjab, Himachal and Haryana have participated in the event. Faculty members, research mentors and research scholars from various government & private universities and institutes attended the event. They got benefitted by interaction with several eminent personalities and experts and found new areas of research in their respective fields. In the event, patronized by the Vice-Chancellor of the University, Sh. Rahul Bhandari, IAS, the Chief Guest of the inaugural session was Dr Neelkanth Grover, Dean, Student Welfare, IKGPTU. In his address he stressed upon the importance of the development in materials science and its applications in the contemporary world. He correlated the underlying theme with the Current need of the society. He highlighted the importance and role of characterization techniques for different materials. During this programme of one-week, experts delivered their respective talks on different topics related to the importance of chemistry & materials, fluorescent sensors, surface chemistry, physical properties of the materials, supramolecular materials, biomaterials, organic materials etc. Workshop sessions was also conducted at Centre for Invention, Innovation, Incubation and Training at IKGPTU, Kapurthala. A short visit was also organised on renewable energy to visit the S S National Institute of Renewable Energy, Kapurthala.

On the day 1, i.e. 06.06.2022, in academic session II, Prof. Manoj Kumar delivered a lecture on History of chemistry: A beautiful journey. In his lecture he talked about the life, achievements and discoveries made by notable scientists like discovery of atom by Rutherford, J.J. Thomson and Bohr and work done by Prof. Onnes in the field of superconductivity, Madam Marie Curie in the field of radioactivity, discovery of Nitrogen by Lavoisier etc. He also told that year 2011 is now celebrated as the International year of chemistry to recognize the achievements of chemistry throughout history and its contributions to the humankind. He also

mentioned about the first physical and inorganic chemist of world such as Van't Hoff, Ostwald, Arrhenius, Nerst, Ramsay, Moissan, Werner and their contributions in scientific field. In the last he mentioned the renowned Indian Chemists Acharya Sir Prafulla Chandra Ray and Ruchi Rama Sahni. Dr. Manoj told that Sir PC Ray is known as "father of Indian Chemistry" and the first pharmaceutical company i.e. Bengal Chemical and Pharmaceutical Works Ltd in India was established by him in 1901.

In the session III Prof. Manoj Kumar talked on Fluorescent sensors. He started his talk by explaining the phenomenon of fluorescence and other radiative and non-radiative processes using Jablonski diagram. Then he discussed the various design principle of a fluorescent sensor and various mechanisms involving in a fluorescent molecule such as photoinduced electron transfer, fluorescence resonance energy transfer and highlighted the difference between through bond energy transfer and through space energy transfer. He emphasized that much of research on fluorescent sensors is going due to its wide range of applications such as real time visualization, sensitivity, drug delivery and as a therapeutic agents. Then he told that from the last 20 years his research group is actively involved in the design and synthesis of small fluorescent molecules for the detection of metal ions such as mercury, zinc, anions and reactive oxygen and nitrogen and sulphur species and their biological applications in living cells. He highlighted the role of real time detection of toxic metal ions such as mercury which causes the Minamata disease and hazardous effects of other metal ions. He concluded his talk by giving the representative examples of fluorescent molecules which are used as molecular keypad lock and molecular devices.

In the session IV of day 1, Dr Chander Prakash discussed the New Education Policy thoroughly. All the Participants interacted with the expert discussing the various aspects of the policy.

In the session I of day 2 (07.06.2022) of FDP, the resource person was Dr Tejwant Singh, Associate Professor, Department of Chemistry, GNDU, Amritsar. In his talk on "Ionic Liquids for Sustainable Preparation of Advanced Materials", he discussed about the exclusive properties, wide spread applications and tunable nature of ionic liquids. Further he elaborated on the synthesis of some nicotine-based ionic liquids and their role in the synthesis of silver/silver bromide nanoparticles and hence exfoliation of graphene. His talk was extremely elaborative and the concepts were thoroughly made clear.

The resource person for the session II of day 2 was Dr Ravi Chand Singh, Honorary Professor, Department of Physics, GNDU, Amritsar. In his talk on "Metal Oxide Semiconductor based Gas Sensors", he explained the need for gas sensors, their types and characteristics, specifically



the sensor response, response time, sensitivity, and reproducibility of gas sensors. He also explained the procedure to fabricate the sensors within the laboratory and use it for sensing applications. He explained how his research group had been actively engaged in the field of material research, synthesizing metal oxide nanoparticles and then depositing it into suitable substrates for their electrical and gas sensing properties. The talk was really informative and elaborative.

In the session III & IV, Dr Jujhar Singh delivered the talk on skill development. He apprised about the use of 3D printer, laser engraving etc. He described the use of 3D printer in the contemporary scenario for the advancements of the designs and other things. He accompanied the students to the CIIT skill centre and make it possible to get the hands-on experience on the available machines. These sessions involves the visit of participants to the Centre for invention, innovation, incubation and training Labs and Workshop at IKG Punjab Technical University, Kapurthala. Dr. Jujhar Singh, Coordinator CIIT briefed the project to the faculty and the students. Apart from this, SME's from Tata Technologies provided information about the additive manufacturing and advance manufacturing techniques.

Moreover, Technical Assistant, CIIT showed all the machines and equipment available at the CIIT Center. The main motive of this FDP was to make the faculty aware about the availability of high end industrial machines at the CIIT Centers so that the faculty members of the department can map their curriculum with the courses of the CIIT and students can be given training for the same.

On day 3, in the academic session I, Professor Prabodh Kumar Sehajpal presented his valuable talk on biochemical Markers. He elaborated the importance of biochemical markers as an aid in diagnosing or in predicting susceptibility to the disease. He beautifully explained the things by taking suitable examples.

In the session II of day 3, Dr. Amit Sarin delivered his talk of Bio-fuels, its synthesis and extensive applications. In his elaborative talk, he discussed about the importance of biomass and biofuels that are necessary for the development of green, renewable and sustainable alternative of fossil fuels. He discussed about the possible many technologies for the conversion of cellulosic biomass and other residues which are under development and research; the scientific know-how which is not yet widely known but it would be more than worthy of attention for the future development.

On day-3, 08.06.2022, in the academic session III, the resource person, Dr. Hitesh Sharma presented his talk on Modeling and Simulation of materials. He started his lecture by explaining the nature, types and interactions between materials and told how modeling and simulations is



widely used for the optimization of structure of materials as well as small molecules. He further added modeling is mathematical description of an entity or proceedings or state of affair. He also explained the types of models and multiscale materials modeling. He described the each term of Schrodinger wave equation and Born-Oppenheimer approximation in a very simple way. He also briefed that the Density functional theory in a nut shell is application that reduces the  $3N$ - dimensional problem to a 3-dimentional one. He ended his talk by demonstrating the software which his research team is using for the simulation and modeling of materials.

In academic session IV, the resource person Dr. Gaurav Bhargava explained the cycloaddition reactions by taking the various examples from literature as well as from their own research work. He told that transition metal-catalyzed cycloaddition reactions are one of the few sustainable methods which lead to synthesis of complex molecules with high atom economy exploiting simple synthetic precursors. He further added the two-component cycloadditions such as  $[4 + 2]$  or  $[3 + 2]$  transformations are synthetically most explored reactions for the synthesis of six and five-membered carbo-/heterocycles. Contrary to this, synthesis of higher-membered carbo-/heterocycles using  $[m+n+o]$  cycloadditions still is infancy and needs the attention of synthetic chemists. He mainly focused on Ni, Rh and Ru catalyzed cycloadditions and emphasized that there is still a room for other metal catalyzed reactions.

In the session I of day 4, Professor Vikas Chawla delivered his talk on Surface modifications for thermal and condensed materials. He emphasized on the various techniques for the surface modifications of different materials to get their properties improved.

In the academic session II, Prof. Susheel Mittal, Vice cancellor of Dr. Beant Singh state university was the resource person. He delivered his talk on Nano-Particle Modified Microbial Biosensors for Pesticide Detection. In his talk he talked about the biosensor, its need and highlighted the various applications of biosensors ranges from drug discovery, disease detection, water, soil and food quality monitoring to toxins of defence interest. He added that his research group is actively engaged in the development of sensor for the detection of pesticides as excess amount of pesticides responsible for neurological diseases as well as causes water contamination. He explained that complexation of pesticide with the alkaline phosphatase enzyme inhibit the dephosphorylation of p-Nitropheny phosphahate substrate which eventually decreases the magnitude of current. In the end, he explained the nonoparticle based approach for the pesticide detection.

In the academic sessions I & II of day 5, Dr. Prabhpreet Singh of Guru Nanak Dev University was the resource person. He delivered his talk on "Tailor made Rylene dye: Leveraging the synthetic design and its application as sensor for bioanalyte". He started his lecture by



explaining the difference between dye and pigments. He explained the types, reaction sites and applications of rylene dye emphasizing the perylene diimide dye. In the second part of his lecture he revealed the utilization of chromo-fluorescent dyes and small molecule for development of diagnostic kits as point-of-care testing (POCT) tools for biomarkers and or proteins. He elaborated his lecture on latent fingerprinting and highlighted that Latent fingerprints (LFPs) identification is of paramount importance for national security and criminal investigations.

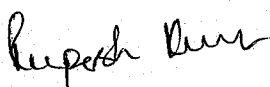
In the session III & IV, the speaker Prof. Narinder Singh from IIT, Ropar gave his valuable talk on "An interdisciplinary approach to analytical Techniques". In the first session, speaker shared research topic related to molecular contribution for detection of heavy metals like  $Hg^{2+}$  ion. One of them was using of rhodamine appended dipodal derivative for  $Hg^{2+}$  ion sensing. Various fluorescent active organic molecules were shared for their optimum analytical performances. In addition, the metal oxide decorated with organic nanoparticles were discussed for ratiometric sensor. The ratiometric sensor was on based ratio of two emission wavelength intensities. The metal complexes were discussed for cancer screening strategy and developed portable sensor. The fluorescent sensors were used for food adulteration by visual detection. The various advanced analytical instruments were used for characterizations and physico-chemical properties study. In the second session, the experimental evidence for understanding the complex structures and various process involved in the sensor development were discussed. This was believed that the mechanism would be first step to understand or design a new molecule and among those are Förster resonance energy transfer (FRET), photoelectron transfer, and intermolecular charge transfer. The organically modified copper nanocluster was discussed and shared that density functional theory calculation were used along with mass spectrometry technique to identify the probable copper cluster structure. In addition, it was also discussed the molecular rigidity could be one of the reason for formation organic nanoparticles. This gives us immense exultation for ongoing research activity in the fluorescent sensor development and this faculty development program motivated me towards more research activity.

On day 6, in the session I, Dr. Anirudh P. Singh delivered lecture on Developing R & D culture in Educational /Institutions and NEP 2020. He focused on Importance of Research in academics and how it can be developed in educational institutions. He also talked about creating awareness regarding research among students by the faculty. He further gives emphasis on adopting NEP 2020 and its benefits to students in their near future. He emphasised

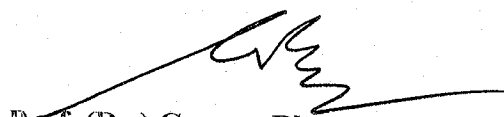


the importance of research because for any accreditation body the research component has the high contribution in the accreditation.

In the session II & III, the test was conducted and evaluated to the learnings of the participants. Feedback was also collected from the participants regarding the conduct of FDP and scope of the improvements for the future. In the last session, certificates were distributed among the participants. Dr. Rupesh Kumar, Coordinator of the programme, thanked the participants and guests.



**Rupesh Kumar**  
Programme Coordinator



**Prof. (Dr.) Gaurav Bhargava**  
Head, Chemical Sciences

Department of Chemical Sciences  
I.K. Gujral Punjab Technic-  
Kapurthala



## I.K. Gujral Punjab Technical University, Kapurthala

### Department of Chemical Sciences



AICTE and IKGPTU sponsored Faculty Development Programme on “**Advancements in the Methodologies for the development of Synthetic Materials**”  
(06.06.2022-11.06.2022)

Day & Date	09.15 AM-10.45 AM		11.00 AM - 12.30 PM		01.30 PM - 03.00 PM		03.15 PM - 04.45 PM
<b>Day-1</b> 06.06.2022 Monday	<b>Registration &amp; Inauguration</b>		<b>Dr Manoj Kumar</b> , Guru Nanak Dev University, Amritsar <b>Keynote Speaker</b>		<b>Dr Manoj Kumar</b> , Guru Nanak Dev University, Amritsar		<b>Dr Chander Parkash</b> IKGPTU, Main Campus
<b>Day-2</b> 07.06.2022 Tuesday	<b>Dr Tejwant Singh Kang</b> , GNDU, Amritsar		<b>Dr Ravi Chand Singh</b> , GNDU, Amritsar		<b>Dr Jujhar Singh</b> Workshop at Centre for Invention, Innovation, Incubation and Training (CIIT), IKGPTU Kapurthala	<b>Tea Break</b>	<b>Dr Jujhar Singh</b> Workshop at Centre for Invention, Innovation, Incubation and Training (CIIT), IKGPTU Kapurthala
<b>Day-3</b> 08.06.2022 Wednesday	<b>Dr P K Sehajpal</b> , Guru Nanak Dev University, Amritsar	<b>Tea Break</b>	<b>Dr Amit Sarin</b> , IKGPTU, Amritsar Campus	<b>Lunch Break</b>	<b>Dr Hitesh</b> , IKGPTU, Main Campus, Kapurthala		<b>Dr Gaurav Bhargava</b> , IKGPTU, Main Campus
<b>Day-4</b> 09.06.2022 Thursday	<b>Dr Vikas Chawla</b> , IKG PTU Kapurthala		<b>Dr Susheel Mittal</b> , Beant University, Gurdaspur		<b>Dr Sachin Kumar</b> , Deputy Director S S NIRE, Kapurthala		<b>Dr Sachin Kumar</b> , Deputy Director (Visit to S S NIRE, Kapurthala)
<b>Day-5</b> 10.06.2020 Friday	<b>Dr Prabhpreet Singh</b> , Guru Nanak Dev University, Amritsar		<b>Dr. Prabhpreet Singh</b> , Guru Nanak Dev University, Amritsar		<b>Dr Narinder Singh</b> , IIT Ropar		<b>Dr Narinder Singh</b> , IIT Ropar
<b>Day-6</b> 11.06.2020 Saturday	<b>Dr Anirudh Pratap Singh</b> , Desh Bhagat University, Mandi Gobindgarh)				Test, Evaluation & Feedback		Valediction, Followed by High Tea

## I.K. Gujral Punjab Technical University

The University was established in 1997 as Punjab Technical University and renamed as I. K. Gujral Punjab Technical University by State Government in 2015. University offers UG and PG degrees in sciences. It includes M.Sc. and B.Sc. Honours in Chemistry, Mathematics and Physics. Other established departments are Food Science and Technology, Journalism and Mass communication, Management & Hospitality and Humanities. University also offers B.Tech. degree programmes in different engineering streams like Electronics & Communication, Computer Science & Engineering, Electrical Engineering, Civil Engineering, and Mechanical Engineering.

## Department of Chemical Sciences

Department of Chemical Sciences was established in 2016. Department of Chemical Sciences at I. K. Gujral PTU strives to achieve excellence in research and teaching in Chemistry. Department is offering PhD, MSc Chemistry and BSc Honours Chemistry. The Department has well-furnished and centrally air conditioned laboratories. The Department is well supported by the library possessing a vast variety of titles related to the different streams of Chemistry. The faculty is extremely well qualified and motivated with a strong commitment to research which is reflected in the sanctioned projects sponsored by the Ministry of Human Resource Development, Department of Science and Technology, Department of Atomic Energy, and many other organizations.

## Advancements In the Methodologies for the development of Synthetic Materials

Chief Patron

Sh. Rahul Bhandari

Vice-Chancellor, IKGPTU Kapurthala

Patron (s)

Prof. (Dr.) Vikas Chawla

Dean Academics, IKGPTU Kapurthala

Dr. S. K. Mishra

Registrar, IKGPTU Kapurthala

Mentor

Prof (Dr.) Gaurav Bhargava

Head, Department of Chemical Sciences

Programme Coordinator

Dr Rupesh Kumar, Assistant Professor,

dr.rupesh@ptu.ac.in (94658-84829)

Organizing Committee

Dr. Chander Prakash, Assistant Professor

Dr. Vandana Naithani, Assistant Professor

Dr. Roopa, Assistant Professor

Dr. Reshu Sanan , Assistant Professor

Dr. Sanjeeb Sutradhar, Assistant Professor

Dr. Rashmi Sharma, Assistant Professor

For queries, please contact:

For registration: Dr. Reshu Sanan (9463725685)

For accommodation: Dr. Chander Prakash  
(9478098059)

AICTE and IKGPTU sponsored  
Faculty Development Programme

## Advancements in the Methodologies for the development of Synthetic Materials

June 06, 2022—June 11, 2022

Sponsored by



Organized by

Department of Chemical Sciences  
I.K. Gujral Punjab Technical University  
Kapurthala-144603  
(Punjab)





# Advancements in the Methodologies for the development of Synthetic Materials

Current research aims at developing new advanced materials manipulating their intrinsic properties to improve the performance of the material that work with very high efficiency and accuracy. Modern advanced materials with definite integral properties and functions are being designed and developed to be used for a specific purpose like catalysis, medicinal application, energy storage, energy conversion, sensing etc. These are expected to play a leading role in finding solutions to the problems of the modern era.

The objectives of the FDP are to provide comprehensive knowledge of recent developments in the synthetic materials, their characteristics, fabrication, characterization and applications in the advancement of Science and Technology in various fields. The other objective of the proposed FDP is to discuss the ongoing research activities covering various areas. The FDP comprises invited talks in the various fields of materials science.

## COURSE CONTENTS

- **Design and development of novel multi-functional advanced / nano-materials and their applications in various domains.**
- **Refined Materials for solar energy conversion and storage.**
- **Fabrication and characterization of nano-materials for catalysis.**
- **Advanced characterization techniques.**

Eminent scholars from premier industry, academic and research institutions will be there to deliberate the research on new materials. Some of the renowned persons from industry will also discuss the new methodologies and responsive manufacturing protocols.

## FDP on “Advancements in the Methodologies for the development of Synthetic Materials”

06.06.2022 to 11.06.2022

### Registration Form

Name of the Candidate: .....

Subject area: .....

Department: .....

Designation: .....

Affiliation and address: .....

Gender: .....

Mobile: .....

Email: .....

Accommodation required: (Yes/No) .....

Signature

Candidates are required to send duly filled form to Dr. Reshu Sanan at 'reshusanan@gmail.com' or complete your registration using given link :

<https://forms.gle/CAzyKQAttHcCThPx6>

## WHO CAN ATTEND

Teachers, researchers and PhD scholars from Engineering and Sciences institutes or universities.

## IMPORTANT INSTRUCTIONS

- No course fee
- Limited seats
- Registration & confirmation on first-come first-serve basis
- Teachers and Researchers can apply online through the given link or they can send their registration form
- Last date to apply: 05.06.2022

*Mode of conduct of programme will be offline only.*

*Certificates will be awarded only after the successful completion of the 6 days course with minimum 80% attendance and 60% marks during the final evaluation as per the AICTE prescribed criterion.*

For general queries and correspondence, please refer to:

**Dr. Rupesh Kumar, Assistant Professor**  
Department of Chemical Sciences  
I. K. Gujral Punjab Technical University,  
Main Campus, Kapurthala-Jalandhar  
Highway  
Kapurthala-144603 (Punjab) India

Email: dr.rupesh@ptu.ac.in  
Mobile: 9465884829, 9914231989



**I.K. Gujral Punjab Technical University, Kapurthala**  
**Department of Chemical Sciences**

Dated: 11.06.2022

Ref. No. IKGPTU/CS/3529

A. The following participants have been awarded the certificates on the successful completion of AICTE and IKGPTU sponsored Faculty Development Programme on "Advancements in the Methodologies for the development of Synthetic Materials" (06.06.2022-11.06.2022).

Ref.No.	Name of the Participant	Designation	Affiliation
IKGPTU/CS/3529/1	Dr. Praveen Kumar	AP	Department of Physics, DAV University, Jalandhar
IKGPTU/CS/3529/2	Dr. Deepak Kumar Goyal	AP	Mechanical Engineering, IKGPTU, Kapurthala
IKGPTU/CS/3529/3	Dr. Shivani Vij	AP	Department of Applied Sciences, DAV Institute of Engineering and Technology, Jalandhar
IKGPTU/CS/3529/4	Dr. Ashok Kumar	Associate Professor	Department of Applied Sciences, DAV Institute of Engineering and Technology, Jalandhar
IKGPTU/CS/3529/5	Ms. Mankomal	RS	Lovely Professional University, Jalandhar
IKGPTU/CS/3529/6	Ms. Kuljit Kaur	RS	Lovely Professional University, Jalandhar
IKGPTU/CS/3529/7	Dr. Kapil Sood	AP	Government Degree College, Dhaliara, The Dehra, Distt Kangra, HP
IKGPTU/CS/3529/8	Dr. Sonika Jindal	AP	Shaheed Bhagat Singh State University, Ferozepur
IKGPTU/CS/3529/9	Dr. Geeta Arora	AP	Shaheed Bhagat Singh State University, Ferozepur
IKGPTU/CS/3529/10	Dr. Amandeep Singh	AP	CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar
IKGPTU/CS/3529/11	Dr. Barinderjit Singh	AP	Department of Food Science & Technology, IKGPTU, Kapurthala
IKGPTU/CS/3529/12	Ms. Gurwinder Kaur	RS	IKGPTU Kapurthala
IKGPTU/CS/3529/13	Mr. Sahil Chaudhary	RS	Department of Food Science & Technology, IKGPTU, Kapurthala
IKGPTU/CS/3529/14	Dr. Rakesh Goyal	AP	IKGPTU, Kapurthala
IKGPTU/CS/3529/15	Kunal Thakur	RS	NIT, Jalandhar
IKGPTU/CS/3529/16	Matriey Sankalp	RS	NIT, Jalandhar
IKGPTU/CS	Dr. Baljinder Singh	AP	Department of Biotechnology, Panjab

*Se*

/3529/17			University, Chandigarh.
IKGPTU/CS /3529/18	Mr. Sandeep Kumar	RS	Lovely Professional University, Jalandhar
IKGPTU/CS /3529/19	Dr. Amoljeet Singh Gill	AP	Department of Mechanical Engineering, IKGPTU, Kapurthala
IKGPTU/CS /3529/20	Dr. Megha Goyal	AP	Department of Mathematical Sciences, IKGPTU, Kapurthala
IKGPTU/CS /3529/21	Dr. Nitika	AP	Department of Physical Sciences, IKGPTU, Kapurthala
IKGPTU/CS /3529/22	Dr. Amit Gupta	AP	IKGPTU, Kapurthala
IKGPTU/CS /3529/23	Mr. Vivek	RS	Department of Physical Sciences, IKGPTU, Kapurthala
IKGPTU/CS /3529/24	Dr. Vivek Talwar	AR	IKGPTU, Kapurthala
IKGPTU/CS /3529/25	Dr. SanjeebSutradhar	AP	Chemical Sciences, IKGPTU, Kapurthala
IKGPTU/CS /3529/26	Dr. Rashmi Sharma	AP	Chemical Sciences, IKGPTU, Kapurthala
IKGPTU/CS /3529/27	Mr. Abhishek Sharma	RS	IKGPTU, Kapurthala
IKGPTU/CS /3529/28	Mr. Gobind Kumar	RS	Chemical Sciences, IKGPTU, Kapurthala
IKGPTU/CS /3529/29	Ms. Bhanu Priya	RS	Chemical Sciences, IKGPTU, Kapurthala
IKGPTU/CS /3529/30	Ms. Neha Sharma	RS	Chemical Sciences, IKGPTU, Kapurthala
IKGPTU/CS /3529/31	Dr. Manoj Mittal	AP	Department of Mechanical Engineering, IKGPTU, Kapurthala
IKGPTU/CS /3529/32	Mr. Ravi Kumar Sah	RS	IKGPTU, Kapurthala
IKGPTU/CS /3529/33	Ms. Parul	RS	IKGPTU, Kapurthala
IKGPTU/CS /3529/34	Mr. Manjeet Singh	RS	IKGPTU, Kapurthala
IKGPTU/CS /3529/35	Dr. Naveen Sharma	AP	Department of Electrical Engineering, IKGPTU, Kapurthala
IKGPTU/CS /3529/36	Dr. Tarun Goyal	AP	Department of Mechanical Engineering, IKGPTU, Kapurthala
IKGPTU/CS /3529/37	Dr. Varinderjit Singh	AP	Department of Physical Sciences, IKGPTU, Kapurthala
IKGPTU/CS /3529/38	Dr. Maninder Kaur	AP	Department of Physical Sciences, IKGPTU, Kapurthala
IKGPTU/CS /3529/39	Parmjit Singh	RS	Department of Mechanical Engineering, IKGPTU, Kapurthala
IKGPTU/CS /3529/40	Dr. Amit Bansal	AP	Department of Mechanical Engineering, IKGPTU, Kapurthala
IKGPTUCS/	Dr. Reshu Sanan	AP	IKGPTU, Kapurthala

*bc*

3529/41			
IKGPTU/CS /3529/42	Dr. Roopa	AP	IKGPTU, Kapurthala
IKGPTU/CS /3529/43	Dr. Vandana Naithani	AP	IKGPTU, Kapurthala
IKGPTU/CS /3529/44	Dr. Chander Prakash	AP	IKGPTU, Kapurthala
IKGPTU/CS /3529/45	Dr. Gaurav Bhargava	Professor	IKGPTU, Kapurthala

B. The following experts have delivered the invited talks during AICTE and IKGPTU sponsored Faculty Development Programme on “Advancements in the Methodologies for the development of Synthetic Materials” (06.06.2022-11.06.2022).

Ref. No.	Name of the Expert	Designation	Date / Session
IKGPTU/CS /3529/B1	<b>Dr Manoj Kumar</b> , Guru Nanak Dev University, Amritsar	Professor	06.06.2022 / II & III
IKGPTU/CS /3529/B2	<b>Dr Chander Parkash</b> IKGPTU, Main Campus	Assistant Professor	06.06.2022 / IV
IKGPTU/CS /3529/B3	<b>Dr Tejwant Singh Kang</b> , GNDU, Amritsar	Associate Professor	07.06.2022 / I
IKGPTU/CS /3529/B4	<b>Dr Ravi Chand Singh</b> , GNDU, Amritsar	Professor	07.06.2022 / II
IKGPTU/CS /3529/B5	<b>Dr Jujhar Singh</b> Workshop at Centre for Invention, Innovation, Incubation and Training (CIIT), IKGPTU Kapurthala	Assistant Professor	07.06.2022 / III
IKGPTU/CS /3529/B6	<b>Dr PK Sehajpal</b> , Guru Nanak Dev University, Amritsar	Professor	08.06.2022 / I
IKGPTU/CS /3529/B7	<b>Dr Amit Sarin</b> , IKGPTU, Amritsar Campus	Professor	08.06.2022 / II
IKGPTU/CS /3529/B8	<b>Dr Hitesh</b> , IKGPTU, Main Campus, Kapurthala	Associate Professor	08.06.2022 / III
IKGPTU/CS /3529/B9	<b>Dr Gaurav Bhargava</b> , IKGPTU, Main Campus	Professor	08.06.2022 / IV
IKGPTU/CS /3529/B10	<b>Dr Vikas Chawla</b> , Dean (Academics) IKG PTU Kapurthala	Professor & Dean	09.06.2022 / I
IKGPTU/CS	<b>Dr Susheel Mittal</b> ,	Vice-Chancellor	09.06.2022 / II

*[Handwritten signature]*

/3529/B11	SardarBeant Singh state University, Gurdaspur		
IKGPTU/CS /3529/B12	<b>Dr Sachin Kumar</b> , Deputy Director S S NIRE, Kapurthala	Deputy Director	09.06.2022 / III
IKGPTU/CS /3529/B13	<b>Dr Prabhpreet Singh</b> , Guru Nanak Dev University, Amritsar	Assistant Professor	10.06.2022 / I & II
IKGPTU/CS /3529/B14	<b>Dr Narinder Singh</b> , IIT Ropar	Professor	10.06.2022 / III & IV
IKGPTU/CS /3529/B15	<b>Dr Anirudh Pratap Singh</b> , Desh Bhagat University, Mandi Gobindgarh)	Dean	11.06.2022 / I

*Rupesh Kumar*

**Rupesh Kumar**  
Programme Coordinator

*Prof. (Dr.) Gaurav Bhargava*

**Prof. (Dr.) Gaurav Bhargava**  
Head, Chemical Sciences



**I.K. Gujral Punjab Technical University, Kapurthala  
Department of Chemical Sciences**



AICTE and IKGPTU sponsored Faculty Development Programme on “**Advancements in the Methodologies for the development of Synthetic Materials**” (06.06.2022-11.06.2022)

**Test**

**Total questions: 25  
Marks: 25**

**Dated: 11.06.2022  
Time allotted: 30 minutes**

**Name: .....**

- 1        3D Printer is involved with which type of manufacturing:  
          (a) Additive Manufacturing  
          (b) Subtractive Manufacturing  
          (c) Both  
          (d) None of above
  
- 2        Which one of the followings is a radiative process  
          (a) Intersystem crossing  
          (b) Internal conversion  
          (c) Fluorescence  
          (d) All of the above
  
- 3        What can be done with Laser Cutting Machine  
          (a) Cutting  
          (b) Engraving  
          (c) Both  
          (d) None
  
- 4        Which year is celebrated as International year of Chemistry  
          (a) 2020  
          (b) 1990  
          (c) 2011  
          (d) 1854
  
- 5        Who has established the first pharmaceutical company i.e. Bengal Chemical and  
          Pharmaceutical Works Ltd in India  
          (a)     Ruchi Ram Sahni  
          (b)     Har Gobind Khorana  
          (c)     Sir PC Ray  
          (d)     Venkatraman Ramakrishnan

- 6 Diels-Alder reaction is an example of  
(a) Cycloaddition reaction  
(b) Electrocyclization reaction  
(c) Sigmatropic reaction  
(d) None of the above
- 7 Tuberculosis is caused by a type of  
(a) Virus  
(b) Bacteria  
(c) Fungus  
(d) Algae
- 8 The full form of PCR is  
(a) Polymerase chain reaction  
(b) Polymer chain reaction  
(c) Polymerase chain reactant  
(d) Polymer chain reactant
- 9 What is the structure of new education policy 2020?  
(a) 3+3+4+5  
(b) 4+3+3+5  
(c) 5+3+3+4  
(d) 5+3+4+4
- 10 The new education policy is beneficial for students as it can  
(a) Bring more quality in education system  
(b) Develop rational thinking among students  
(c) Enhance the scientific temperament among students  
(d) All of the above
- 11 Identify the genetic material from the following  
(a) DNA  
(b) Carbohydrates  
(c) Polymers  
(d) Proteins
- 12 360° assessment in new education policy includes feedback from  
(a) Students only  
(b) Students and parents only  
(c) Industry and faculty only  
(d) Students, alumni, faculty, parents, and industry
- 13 Ionic Liquids possess:  
(a) Low vapour pressure  
(b) Low flammability  
(c) Tunability  
(d) All of the above

- 14 SAILs stands for  
(a) Self-assembled ionic liquids  
(b) Surface active ionic liquids  
(c) Self-assisted ionic liquids  
(d) Surface assisted ionic liquids
- 15 Which is a 2D material  
(a) Graphite  
(b) Graphene oxide  
(c) Graphene  
(d) Nano graphite powder
- 16 The function of a sensor is to \_\_\_\_\_.  
(a) Detect events within specified environment  
(b) Separate physical parameters  
(c) Track and transfer data to computer processor  
(d) Both a and c
- 17 Sensor effectiveness depends on \_\_\_\_\_ parameter.  
(a) Sensitivity  
(b) Radiation  
(c) Restively  
(d) All the above
- 18 A Sensor is a \_\_\_\_\_.  
(a) Subsystem  
(b) Machine  
(c) Module  
(d) All the above
- 19 Which of the following compounds doesn't fluoresce?  
(a) Compound with multiple conjugated bonds  
(b) Conjugation with electron donating group  
(c) Polycyclic compounds  
(d) Non planar compounds
- 20 Phosphorescence mainly results from  
(a) Internal conversion  
(b) Vibrational relaxation  
(c) Intersystem crossing  
(d) All of the above
- 21 Electron spin is reversed in  
(a) Fluorescence  
(b) Phosphorescence  
(c) IR  
(d) NMR



- 22 The application of color to the whole body of a textile material with some degree of fastness
- (a) Dyeing
  - (b) Printing
  - (c) Discharge style
  - (d) None
- 23 The part of the ship that always remains under the water .....
- (a) does not rust because it is salt water
  - (b) does not rust because it is cold water
  - (c) rusts faster because it is salt water
  - (d) rusts faster because it is cold water
- 24 The aim of NEP is to encourage gross enrolment ratio by 2035 to
- (a) 45%
  - (b) 25%
  - (c) 50%
  - (d) 55%
- 25 The NEP focuses on promotion of which Language
- (a) Russian
  - (b) French
  - (c) Chinese
  - (d) Regional

**Signature**

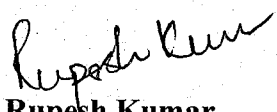
**I.K. Gujral Punjab Technical University, Kapurthala**  
**Department of Chemical Sciences**


The following participants have participated in the AICTE and IKGPTU sponsored Faculty Development Programme on “**Advancements in the Methodologies for the development of Synthetic Materials**” (06.06.2022-11.06.2022). They got the following marks in the given set of questions:

S.No.	Name of the Participant	Designation	Marks Obtained (MM: 25)
1.	Dr. Praveen Kumar	AP	20
2.	Dr. Deepak Kumar Goyal	AP	19
3.	Dr. Shivani Vij	AP	24
4.	Dr. Ashok Kumar	Assoc. Prof.	21
5.	Ms. Mankomal	RS	18
6.	Ms. Kuljit Kaur	RS	18
7.	Dr. Kapil Sood	AP	21
8.	Dr. Sonika Jindal	AP	17
9.	Dr. Geeta Arora	AP	17
10.	Dr. Amandeep Singh	AP	16
11.	Dr. Barinderjit Singh	AP	21
12.	Ms. Gurwinder Kaur	RS	20
13.	Mr. Sahil Chaudhary	RS	18
14.	Dr. Rakesh Goyal	AP	22
15.	Kunal Thakur	RS	16
16.	Matriey Sankalp	RS	16
17.	Dr. Baljinder Singh	AP	19
18.	Mr. Sandeep Kumar	RS	18
19.	Dr. Amoljeet Singh Gill	AP	22
20.	Dr. Megha Goyal	AP	24
21.	Dr. Nitika	AP	24
22.	Dr. Amit Gupta	AP	22
23.	Mr. Vivek	RS	17
24.	Dr. Vivek Talwar	AR	18
25.	Dr. Sanjeeb Sutradhar	AP	20
26.	Dr. Rashmi Sharma	AP	24
27.	Mr. Abhishek Sharma	RS	18
28.	Mr. Gobind Kumar	RS	20
29.	Ms. Bhanu Priya	RS	18
30.	Ms. Neha Sharma	RS	18
31.	Dr. Manoj Mittal	AP	23
32.	Mr. Ravi Kumar Sah	RS	18
33.	Ms. Parul	RS	17
34.	Mr. Manjeet Singh	RS	19
35.	Dr. Naveen Sharma	AP	22
36.	Dr. Tarun Goyal	AP	21



37.	Dr. Varinderjit Singh	AP	20
38.	Dr. Maninder Kaur	AP	19
39.	Parmjit Singh	RS	19
40.	Dr. Amit Bansal	AP	22
41.	Dr. Reshu Sanan	AP	24
42.	Dr. Roopa	AP	23
43.	Dr. Vandana Naithani	AP	21
44.	Dr. Chander Prakash	AP	20
45.	Dr. Gaurav Bhargava	Prof	21

  
**Rupesh Kumar**  
Programme Coordinator

  
**Prof. (Dr.) Gaurav Bhargava**  
Head, Chemical Sciences

Department of Chemical Sciences  
I.K. Gujral Punjab Technical University  
Kapurthala

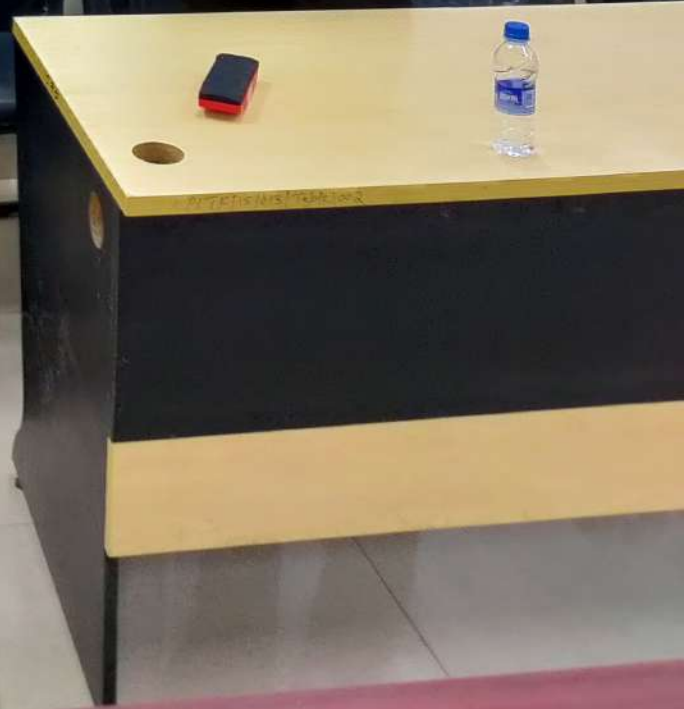
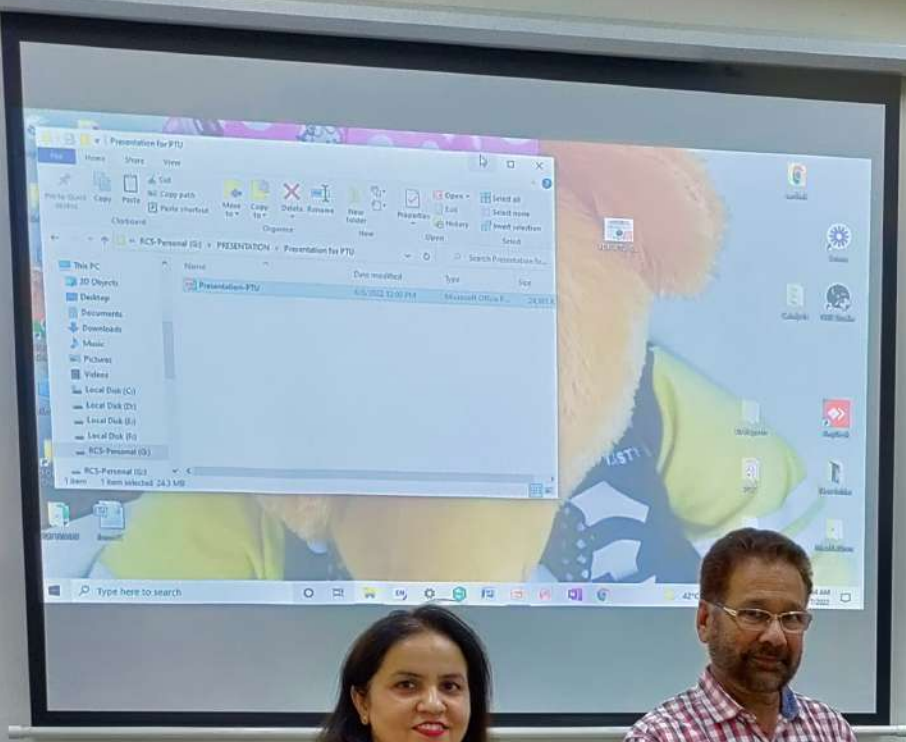






  
AICTE & IGPTU Sponsored  
One-Week  
Faculty Development Program (FDP)  
on  
**Advancements in the  
Methodologies for the  
development of  
Synthetic Materials**  
(06<sup>th</sup> - 11<sup>th</sup> June, 2022)  
Organized by  
Department of Chemical Sciences  
Central Board of Technical Education  
(All India Institute of Technology)  
New Delhi, India

31 May 2022





























ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ, ਕਪੂਰਥਲਾ

I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR, KAPURTHALA

A State University Established Under Punjab Technical University Act, 1996 (Punjab Act No. 1 of 1997)

ਰਜਿਸਟਰਾਰ ਦਫ਼ਤਰ  
OFFICE OF REGISTRAR

Ref. No. IKGPTU/REG/ 309

Dated : 24.05.2022

**Dr. Yadwinder Singh Brar (Professor) and  
Dr. Naveen Sharma (Assistant professor)  
Electrical Engg. Department,  
IKGPTU Main Campus,  
Jalandhar-Kapurthala Highway,  
Kapurthala.**

**Sub: Conduct of FDP on the topic "Current Trends in Green Energy & Power System".**

Sir,

University has approved your proposal to conduct of FDP on the topic, "**Current Trends in Green Energy & Power System**" from **03.06.2022 to 08.06.2022**, subject the following conditions:

1. After completion of the FDP, the institute/Department has to submit the utilization certificate along with bills and report of the FDP to the University.
2. The Scheme & Guidelines for Faculty Development Programmers are attached herewith for your ready reference.
3. Please send the account details, PAN number and copy of Cancel Cheque at deanacad@ptu.ac.in by May 25<sup>th</sup>, 2022 so that initial grant may be released accordingly.

You are requested to conduct the FDP as per University rules and submit the report and documents as mentioned in Scheme & Guidelines, after completion of the program.

  
**(Dr. S.K. Mishra)**  
Registrar

**Copy to:**

1. Secretary to Vice Chancellor: for kind information to Hon'ble Vice Chancellor.
2. Dean (Academics)

*"Propelling Punjab to a Prosperous Knowledge Society"*

I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

Jalandhar Kapurthala Highway, Kapurthala-144603.

Ph. : 01822-282521, 282501 Email : registrar@ptu.ac.in Website : www.ptu.ac.in

# I. K. Gujral Punjab Technical University, Kapurthala-144603 (PB)

## STATEMENT OF EXPENDITURE

Name of the Scheme under which Grant was sanctioned	AICTE – Technical University Joint Training Programme for Teachers
---	--

Reference No. : IKGPTU/REG/309 dated 24.05.2022  
 Title of the Programme : Current Trends in Green Energy & Power System  
 Duration of the FDP : 03.06.2022 to 08.06.2022 (One Week)  
 Name of the Coordinators : Dr Y. S Brar & Dr Naveen Kumar Sharma, EE IKGPTU Kapurthala  
 Organized at : Department of Electrical Engineering, IKGPTU Kapurthala  
 Number of Participants : 59  
 AICTE Sanctioned Grant : 1,50,000/- (One Lakh Fifty Thousand Only)  
 IKGPTU Sanctioned Grant : 1,50,000/- (One Lakh Fifty Thousand Only)

S. No.	Heads	Details of Expenditures	IKGPTU
10.	Coordinator Honorarium	Honorarium to FDP Coordinator	3000
11.	Boarding & Lodging of Participants	Hostel Rent (Boys Hostel)	4000
12.		Mess Charges (Boys Hostel)	2250
13.		Hostel Rent (Girls Hostel)	1000
14.		Mess Charges (Girls Hostel)	820
15.	Stationary & Working Expenses	Flex	4696
16.		Study Material Stationary (ID Cards, Writing Pads, L-Folder, Marker, Pens)	4921
17.		Bouquets for chief Guest	2000
18.		Refreshment (Tea, Snacks & Lunch)	55000
<b>Total Utilization Funds</b>			<b>77687</b>
<b>Total Sanctioned Amount</b>			<b>150000</b>
<b>Balance Amount</b>			<b>72313</b>

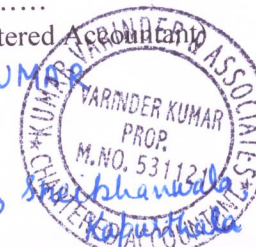
(2) *Naveen*  
 Dr Naveen Kr Sharma  
 Assistant Professor, EE  
 Coordinator FDP  
 (Name & Signature)

(2) *[Signature]*  
 Dr Yadwinder Singh Brar  
 Prof. & HoD (EE)  
 (Name & Signature with Seal)  
 Head  
 Department of Electrical Engineering  
 I.K. Gujral Punjab Technical University  
 Kapurthala-144006

(3) *[Signature]*  
 Dr Rajiv Chauhan  
 AICTE Coordinator, IKGPTU  
 (Name & Signature with Seal)  
 Department of Civil Engineering  
 IKG PTU Main Campus  
 Kapurthala-144603

*As per program*  
 (4) *[Signature]*  
 Prof (Dr) Vikas Chawla  
 Chief AICTE Coordinator-cum-  
 Dean (Academic) IKGPTU  
 (Name & Signature with Seal)  
 I.K. Gujral Punjab Technical University  
 Jalandhar-Kapurthala Highway, Kapurthala

(5) *[Signature]*  
 (Name & Signature with Seal)  
 Dr. Sukhbir Singh Walia  
 Finance Officer  
 IKG PTU Kapurthala

(6) *[Signature]*  
 (Name & Signature of Chartered Accountant)  
 Name: VARINDER KUMAR  
 Membership: 531121  
 Rubber Stamp:  
 Full Address: HNO 316/8, *[Address]*  




AICTE-IKGPTU Sponsored One-Week Faculty Development Programme (FDP)  
“Current Trends in Green Energy & Power System”  
(03<sup>rd</sup> – 08<sup>th</sup> June, 2022)

Department of Electrical Engineering,  
IKG Punjab Technical University, Main Campus Kapurthala, Punjab



**List of Participants**

Sr. No	Name	Sr. No	Name
1.	Junesh Kumar	31.	Abhinav Sharma
2.	Harjit Singh	32.	Inderjeet Singh
3.	Dr. Akhil Gupta	33.	Ashwani Kumar
4.	Dr. Deepika Bhalla	34.	Giridhar Kumar Jha
5.	Avinash Verma	35.	Surjeet Singh
6.	Lakngam Angkang	36.	Rita Rani
7.	Vivek Sharma	37.	Naveen Dogra
8.	Dr. Satish Kansal	38.	Dr. Gagandeep Kaur
9.	Dr. Mohan Kashyap	39.	Akashdeep Singh
10.	Sunimerjit Kaur	40.	Shivani Mehta
11.	Preeti Rani	41.	Chintu Rza
12.	Gurjinder Singh	42.	Ankush Thakur
13.	Ved Parkash	43.	Viplove Rajpoot
14.	Sunny Vaish	44.	Nisha
15.	Dr. Ram Singh Sran	45.	Kamran Alam
16.	Dr. H. S. Dhaliwal	46.	Dr. Balkar Singh
17.	Dr. Mandeep Sharma	47.	Shishir Saklani
18.	Dr. Amandeep Kaur	48.	Dr. Rakesh Kumar
19.	Deven	49.	Dr. Sanjeev Yadav
20.	Mohd. Murtaja	50.	Dr. Sudhir Sharma
21.	Dr. Nagendra Kumar	51.	Baljit Singh
22.	Dr. Rajesh Kumar Narula	52.	Mohit Pathak
23.	Dr. Megha Goyal	53.	Vishal Sharma
24.	Gurpreet Singh	54.	Chetan Selwal
25.	Manjinder Singh	55.	Arvind Sharma
26.	Sarabjit Kaur	56.	Amit Kumar Dash
27.	Shivam	57.	Raj Kumar Mandal
28.	Bimal Kumar	58.	Chandan Kumar
29.	Kamal Singh Bisht	59.	Dr Neetika
30.	Vibhuti		

# **AICTE & IKGPTU Sponsored National Level One-week Faculty Development Program (FDP) on**



## **Current Trends in Green Energy & Power System (03<sup>rd</sup> – 08<sup>th</sup> June, 2022)**



**Organized by  
Department of Electrical Engineering  
I. K. Gujral Punjab Technical University,  
Main Campus Kapurthala, Punjab, India  
<https://ptu.ac.in>**

### **FDP Coordinators**

**Dr. Yadwinder Singh Brar**  
Dean (P&EP) Professor, EE  
Email: braryadwinder@yahoo.co.in  
Mob. No.: +91-9478098013

**Dr. Naveen Kumar Sharma**  
Assistant Professor, EE  
Email: naveen31.sharma@gmail.com  
Mob. No.: +91-9882281525

## **IKGPTU MAIN CAMPUS KAPURTHALA**

PTU was established by an Act of State Legislature on 16<sup>th</sup> January, 1997, to promote technical, management and pharmaceutical education in the state at degree level and above. It was established as Punjab Technical University and renamed as I. K. Gujral Punjab Technical University by State Government in the honor to Late Sh. Inder Kumar Gujral, Former Prime Minister of India.

The University has the mandate to set up centres of excellence in emerging technologies and for promoting training, research and development in these areas. The University has undertaken the task of training students to help in the development of skilled manpower in this sector in the country in general and in the state in particular. With this goal in mind, the university is promoting a number of courses in different streams in regular as well as distance education programmes. At present University have 121 AICTE and 65 UGC institutes affiliated with it.

IKGPTU Main campus has a sprawling campus spread over an area of about 78 acres, and is located on the outskirts of Jalandhar at about 20 kms from the bus stand. IKGPTU ranked 96<sup>th</sup> in 2019 NIRF India ranking and 3<sup>rd</sup> in Punjab after IIT Ropar, TIET Patiala. The institute offers 4-year Bachelor Engineering Courses (B.Tech.) in five branches of Engineering, 5-year degree course in Architecture (B.Arch.), M.Tech. and Ph.D. programmes in various specializations.

## **INTRODUCTION AND FDP OBJECTIVES**

Electric power plays an important role in economic development of any nation. A secure, reliable and economic operation of power systems is very much essential for industrialization. The present trend towards deregulation in power sector is forcing electric utilities to improve their efficiency and reduce cost whereas customers are becoming more sensitive to reliability and power quality. Competitive power market has changed the traditional mission and mandates of power utilities in complex ways that has caused large impacts on environmental, social, and political conditions in several countries worldwide. RES and technologies have tremendous potential to provide solutions to the long-standing energy problems being faced by consumers in all developing countries. This FDP has been designed to familiarize the researchers and engineers working in the field of competitive power systems and energy operation with the core concepts of economic dispatch, unit commitment and optimal power flow.

## **COURSE CONTENTS**

- ❖ Competitive Power Market
- ❖ Power System Operation, Economics
- ❖ Grid Integration of RES: Key Issues, Challenges and Solution
- ❖ Economic Dispatch of Electric Power System
- ❖ Electricity Market Operation
- ❖ AI & IoT Application in Power System
- ❖ Steady State Operation of Power System
- ❖ Energy Management, Demand Side Management Distributed generation
- ❖ Simulation of Power System & RES
- ❖ Power Quality & Harmonics Analysis
- ❖ Energy Scheduling & Forecasting Techniques
- ❖ Micro Grid, Smart Distribution System
- ❖ Power Flow and OPF and their programming
- ❖ Power Trading, Market Regulation and Policies
- ❖ Energy Storage and Electric Vehicle

## METHODOLOGY

The one-week programme will be judiciously utilized by integrating theory classes, laboratory sessions, case studies and audio-visual presentations. Besides the institute faculty, experts will be invited from various esteemed institutions/ R & D organizations. This FDP will also be useful to various energy regulatory bodies, leading power project managers, engineers, production managers, academia, technical managers, plant superintendents, operators and maintenance personnel, and private power consumer companies.

## TARGET GROUP

Teachers from recognized engineering colleges/ Institutions; practicing engineers from public/ private organizations with minimum qualification of Bachelor's Degree in any branch of Engineering/ or its equivalent M. Tech. and Ph.D. Research Scholars are eligible for registration. The number of participants is limited and will be selected on first come, first serve basis. The interested participants need to get themselves sponsored from their HOD/Principal/Head of Institution and send their request on prescribed performa.

## HOW TO APPLY:

- ❖ Last date of receiving applications for participation in this FDP is **May 31<sup>st</sup>, 2022**.
- ❖ Information regarding selection will be displayed on institute website or selected candidates may also be informed by email.
- ❖ Send the filed registration form (scan copy) through email (**naveen31.sharma@gmail.com**) as attachment & submit the original hard copy at the time of first day in FDP registration.

## IMPORTANT INSTRUCTIONS

There will be a **No-Registration Fee** any for sponsored participants from academic institutions and industry. Interested faculty from AICTE recognized Technical/ Govt. Institutes & Personnel from Industry can apply take print of application form. Seats are limited and applicants will be selected on first come, first serve basis.

No TA/DA will be given to any participant. Suitable arrangements for free boarding and lodging of participants will be made at students' hostel.

## ORGANIZING COMMITTEE

### *Chief Patron*

**Sh. Rahul Bhandari, IAS**  
Vice-Chancellor, IKGPTU

### *Patron*

**Dr. S.K. Mishra**  
Registrar, IKGPTU

### *Chairman*

**Dr. Vikas Chawla**  
Dean Academics, IKGPTU

### *Co-Chairman(s)*

**Dr Rajiv Chauhan**  
Coordinator AICTE

**Dr Satvir Singh**  
Deputy Dean (Engineering)

**Dr Gagandeep Kaur**  
Head EE

### *Coordinators*

**Dr. Yadwinder Singh Brar**  
Dean (P&EP) & Professor, EE

**Dr. Naveen Kumar Sharma**  
Assistant Professor, EE

# REGISTRATION FORM

## One-week Faculty Development Program

on

## Current Trends in Green Energy & Power System (03<sup>rd</sup> – 08<sup>th</sup> June, 2022)

Organized by

Department of Electrical Engineering, I. K. Gujral Punjab Technical University,  
Main Campus Kapurthala, Punjab, India

1. Name of the Candidate.....  
Designation.....  
Email.....  
Office Tel No./Mobile No.....
2. Name of the Institution and Department: .....  
.....  
.....
3. Address for Correspondence: .....  
.....  
.....
4. Educational Qualification.....
5. Experiences (a) Teaching.....  
(b) Industrial or others.....
6. Accommodation Assistance Required (Yes/No) .....

Place: (.....)

Date: Signature of the Candidate

I hereby Dr./Mr./Ms.....to participate in the FDP on “Current Trends in Green Energy & Power System”, during 03-08 June, 2022 being held at I.K. Gujral Punjab Technical University, Kapurthala, Punjab, India. During the period of entire program. He/she would be on the official duty at IKGPTU Punjab.

Signature with Date & Seal  
Sponsoring Authority (HOD/Principal/ Director)

Note: 1. Photocopied/typed Reg. Form can be used or may be downloaded from institute website.

2. Send the filed registration form (scan copy) through email as attachment & submit the original hard copy at the time of FDP registration




AIUTE & INGPTE Sponsored National Level  
One-week Faculty Development Program (FDP)  
on  
**Current Trends in  
Green Energy &  
Power System**  
(June 3-8, 2022)



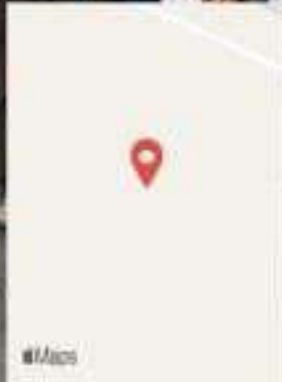
Organized by  
Department of Electrical Engineering  
27 Floor, Academic Block - 2  
L.K. Gujral Punjab Technical University,  
Main Campus, Kapurthala, (Punjab) India



AIUTE & INGPTE Sponsored National Level  
One-week Faculty Development Program (FDP)  
on  
**Current Trends in  
Green Energy &  
Power System**  
(June 3-8, 2022)



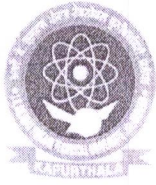
Organized by  
Department of Electrical Engineering  
27 Floor, Academic Block - 2  
L.K. Gujral Punjab Technical University,  
Main Campus, Kapurthala, (Punjab) India



**Kapurthala, PB, India**  
**NH 703A, Kapurthala, Kapurthala,**  
**Lat 31.352411, Long 75.460316**  
**06/03/2022 12:27 PM**

GPS Map Camera

AIUTE



ਆਈ. ਕੇ. ਗੁਜਰਾਲ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ ਜਲੰਧਰ, ਕਪੂਰਥਲਾ  
I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR, KAPURTHALA

A State University Established Under Punjab Technical University Act, 1996 (Punjab Act No. 1 of 1997)

ਰਜਿਸਟਰਾਰ ਦਫਤਰ  
OFFICE OF REGISTRAR

Ref. No. IKGPTU/REG/ 323

Dated : 30-05-2022

Dr. Gagandeep Kaur (Associate Professor) and  
Dr. Akhil Gupta (Assistant Professor),  
Department of Electrical Engg.,  
IKGPTU Main Campus,  
Jalandhar-Kapurthala Highway,  
Kapurthala.

Sub: Conduct of FDP on the Topic "Application of Computing Techniques in Sustainable Energy Systems-(ACTSES)"-Modification.

Sir/Madam,

In partial modification letter No. IKGPTU/REG/310 dated 24-05-2021 and University has approved your proposal to conduct of FDP on the topic, "Application of Computing Techniques in Sustainable Energy Systems-(ACTSES)" from 15.06.2022 to 20.06.2022, subject the following conditions:

1. After completion of the FDP, the institute/Department has to submit the utilization certificate along with bills and report of the FDP to the University.
2. The Scheme & Guidelines for Faculty Development Programmers are attached herewith for your ready reference.
3. Please send the account details, PAN number and copy of Cancel Cheque at deanacad@ptu.ac.in by 31<sup>st</sup> May, 2022 so that initial grant may be released accordingly.

You are requested to conduct the FDP as per University rules and submit the report and documents as mentioned in Scheme & Guidelines, after completion of the program.

(Dr. S.K. Mishra)  
Registrar

Copy to:

1. Secretary to Vice Chancellor: For kind information to Hon'ble Vice Chancellor.
2. Dean (Academics)

"Propelling Punjab to a prosperous Knowledge Society"

I. K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

# I. K. Gujral Punjab Technical University, Kapurthala (PB)

## FUNDS UTILIZATION CERTIFICATE (2022-23)

Name of the Scheme under which Grant was sanctioned	AICTE – Technical University Joint Training Programme for Teachers
---	--

Reference No.: IKGPTU/REG/323 dated 30.05.2022

Title of the Programme: Applications of Computing Techniques in Sustainable Energy Systems- (ACTSES)

Duration of the FDP: 15.06.2022 to 20.06.2022 (6 days-One Week)

Name of the Coordinators: Dr. Akhil Gupta, EE Department, IKGPTU Main campus, Kapurthala-144603, Punjab, and Dr. Gagandeep Kaur

Organized at: Department of Electrical Engineering, IKGPTU Main campus, Kapurthala-144603

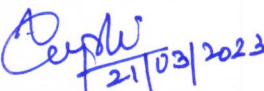
Number of Participants: 55

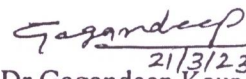
AICTE Sanctioned Grant: 1,50,000/- (One Lakh Fifty Thousand Only)

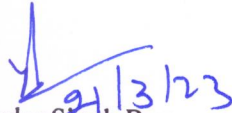
IKGPTU Sanctioned Grant: 1,50,000/- (One Lakh Fifty Thousand Only)

S. No.	Latter No. and date	Amount	Statements
(a)	IKGPTU/REG/310 dated 20.06.2022 & IKGPTU/REG/323 dated 30.05.2022	Rs. 1,50,000/-	Certified that out of Rs. 1,50,000/- of grants-in-aid sanctioned during the year 2022-23 in favour of Registrar, IKGPTU Kapurthala under this University Letter Ref. No.: IKGPTU/REG/323 dated 30.05.2022
(b)	Grant received	Rs. 90,000/-	A sum of Rs. 90,000/- was received at IKGPTU Kapurthala as advance.
(c)	Utilized Grant	Rs. 41,952/-	Rs. 41,952/- has been utilized for the purpose of Faculty Development Programme for which it was sanctioned.
(d)	Unutilized Grant	Rs. 48,048/-	Rs. 48,048/- remained un-utilized that has been surrendered on 06.07.2022 to IKGPTU Kapurthala. (Acc. No. 50100235790245; IFSC: HDFC0003402) to refund to All India Council for Technical Education)


Certified that I have satisfied my-self that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the propose for which it was sanctioned.


  
21/03/2023  
Dr Akhil Gupta  
Assistant Professor, EE  
Coordinator FDP  
(Name & Signature)


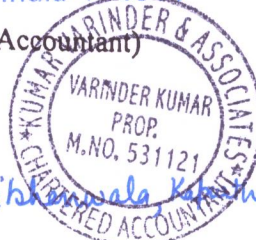
  
21/3/23  
Dr Gagandeep Kaur  
Coordinator FDP  
Faculty  
IKGPTU  
(Name & Signature with Seal)

  
21/3/23  
Dr Yadwinder Singh Brar  
Prof. & HoD (EE)  
(Name & Signature with Seal)  
Head  
Department of Electrical Engineering  
I.K. Gujral Punjab Technical Unive.  
Kapurthala-144006 144603

  
21/3/23  
Dr Rajiv Chauhan  
AICTE Coordinator, IKGPTU  
(Name & Signature with Seal)  
Head  
Department of Civil Engineering  
IKG PTU Main Campus  
Kapurthala-144603

  
22/3/23  
Prof (Dr) Vikas Chawla  
Chief AICTE Coordinator-cum-  
Dean Academic, IKGPTU  
(Name & Signature) with Seal  
I.K. Gujral Punjab Technical University  
Jalandhar-Kapurthala Highway, Kapurthala

  
(Name & Signature with Seal)  
Dr. Sukhbir Singh Walia  
Finance Officer  
IKG PTU Kapurthala  
To the

  
(Name & Signature of Chartered Accountant)  
Name: VARINDER KUMAR  
Membership: 531121  
Rubber Stamp:  
Full Address: HNo 316/8, Sheikh Gurdiala, Kapurthala  


**Department of Electrical Engineering**  
**IK Gujral Punjab Technical University Main campus Kapurthala**  
**AICTE New Delhi and IKGPTU sponsored 1-week National level faculty development programme**  
**Topic of FDP: Applications of Computing Techniques in Sustainable Energy Systems -(ACTSES) from June 15-20, 2022**

**List of Registered Candidates**

**Total candidates: 55**

<b>Sr. No</b>	<b>Name of the Candidate</b>
1.	Ankita
2.	Akansha
3.	Kiran Rani
4.	Jugraj Singh
5.	Arghya Datta
6.	Reetima Rana
7.	Rakesh Godara
8.	Akashdeep Singh
9.	Gajera Bhautik Vinubhai
10.	Shelly
11.	Sahil Attri
12.	Harvinder Singh
13.	Dr. Rakesh Kumar
14.	Sunny Vig
15.	Vijay Kumar
16.	Er. Kiranjit Kaur
17.	Gurwinder Kaur
18.	Avtar Singh
19.	Tarun Goyal
20.	Harsh Kuamr
21.	Arun Sharma
22.	Avinash Verma
23.	Vivek Sharma
24.	Lakngam Angkang
25.	Jatinder Garg
26.	Satish Kansal
27.	Dr. Raman Kumar
28.	Naveen Kumar Sharma
29.	Barinderjit Singh
30.	Daman Sagar
31.	Harmeet Kumar
32.	Mohd. Murtaja
33.	Simple Sharma
34.	Amit Bansal
35.	Surjeet Singh
36.	Naveen Dogra
37.	Deepika Bhalla
38.	Pankaj Maurya
39.	Amandeep Singh Bansal
40.	Gurpreet Singh

41.	Dinesh Gupta
42.	Bhavna
43.	Manpreet kaur
44.	Vikas Goyal
45.	Deepak Kumar Goyal
46.	Simerpreet Singh
47.	Divesh Kumar
48.	Gurjinder Singh
49.	Rajesh Kumar Narula
50.	Dr. Amoljit Singh Gill
51.	Manoj Mittal
52.	Rajwinder Singh
53.	Rita Rani
54.	Sunny vaish
55.	Sanjiv Kumar Chauhan

**FDP Coordinator**

**FDP Coordinator & Head-EE**



**One-week**

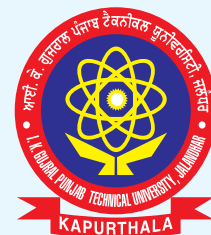
**National Level Faculty Development Programme (FDP)  
(AICTE & IKGPTU Sponsored )**

**on**

**Applications of Computing Techniques in  
Sustainable Energy Systems - (ACTSES)**

**(June 15-20, 2022)**

**FDP Coordinators**



**Dr. Gagandeep Kaur**

Associate Professor & HOD, EE

Email: gaganee@ptu.ac.in

Mob. No.: +91-9478098118

**Dr. Akhil Gupta**

Assistant Professor, EE

Email: akhilgupta1977@gmail.com

Mob. No.: +91-9465884873, 9855041124

**Organized by**

**Department of Electrical Engineering**

**I. K. Gujral Punjab Technical University- Main Campus**

**Jalandhar - Kapurthala Highway, Distt. Kapurthala-144603, Punjab, India**

**<https://ptu.ac.in>**

## ABOUT THE UNIVERSITY

Punjab Technical University was established by an Act of State Legislature on 16<sup>th</sup> January, 1997, to promote technical, management and pharmaceutical education in the state at degree level and above. It was established as Punjab Technical University and renamed as I. K. Gujral Punjab Technical University (IKGPTU) by State Government in the honor to Late Sh. Inder Kumar Gujral, Former Prime Minister of India.

University has the mandate to set up centres of excellence in emerging technologies and for promoting training, research and development in these areas. University has undertaken the task of training students to help in the development of skilled manpower in this sector in the country in general and in the state in particular. With this goal in mind, the university is promoting a number of courses in different streams in regular as well as distance education programmes. At present, University have 121 AICTE and 65 UGC institutes affiliated with it.

IKGPTU Main campus has a sprawling campus spread over an area of about 78 acres, and is located on the outskirts of Jalandhar at about 10 kms from the bus stand. IKGPTU ranked 96<sup>th</sup> in 2019 NIRF India ranking and 3<sup>rd</sup> in Punjab, after IIT Ropar & Thapar University Patiala. The institute offers 4-year Bachelor Engineering Courses (B.Tech.) in five branches of Engineering, 5-year degree course in Architecture (B.Arch.), M.Tech. and Ph.D. programmes in various specializations.

## ABOUT THE DEPARTMENT

The Department was established in year 2014 in IK Gujral Punjab Technical University Main campus which currently offers **Undergraduate, Postgraduate and PhD programmes in Electrical Engineering**. The department boasts well-equipped laboratories with state-of-the-art technology which provides opportunities to students for hands on experience, thereby helping them in understanding the fundamental aspects. Spacious air-conditioned classrooms and world-class infrastructure caters for an environment where students can learn independently as well as in a team. Our outcome-based curriculum and experiential learning opportunities meet the emerging challenges that graduates face in the field. The department aims to create globally competent engineers with a professional outlook, top notch researchers and highly inspired techno-entrepreneurs.

## OVER VIEW OF THE PROGRAMME

The programme is sponsored by AICTE, New Delhi & IKGPTU, Kapurthala. It is aimed to discuss the recent advancements of computing techniques taking place on the sustainable energy technologies and systems. The major topics to be covered in this programme are (i) Distribution systems, with AC/DC microgrids and smart grids (ii) Renewable energy systems (iii) Power electronics in renewable energy systems (iv) Solar photovoltaic and thermal energy (v) Biomass energy (vi) Wind energy (vii) Grid connected renewable energy systems, (viii) Energy storage and electric vehicles (viii) Power quality analysis using various simulation tools, and (ix) Innovative and future research directions on renewable energy technologies. Experts from the different reputed academic institutes, research laboratories and industries will be invited to deliver the various aspects of the programme. Apart from the invited experts, faculties of IKGPTU having expertise in the different areas related to the programme will also deliver lectures. The certificates will be awarded on the successful completion of the programme.

## MAJOR OBJECTIVES

The major objective of this faculty development programme is to impart knowledge about the latest computing techniques for sustainable energy systems to the community of teaching and research. It also aims to enrich the participants with advances in renewable energy technologies, recent advances in power sector and smart grids.

## ELIGIBILITY

The program is open for the faculty members, Post Graduate students & Ph.D scholars of Engineering, Diploma, & R&D labs from AICTE/respective/technical board/government approved technical institutions. This FDP is also open for participation from various energy regulatory bodies, leading power project managers, engineers, production managers, academia, technical managers, plant superintendents, operators and maintenance personnel, and private power consumer companies.

## IMPORTANT DATES

Last date of receipt of duly filled registration form: June 12, 2022

Intimation of selection of participants: June 13, 2022

Commencement of the programme: June 15, 2022

## METHODOLOGY

The one-week programme will be judiciously utilized by integrating theory classes, laboratory sessions, case studies and audio-visual presentations. Besides the institute faculty, experts will be invited from various esteemed institutions/R & D organizations. This FDP will be useful to various energy regulatory bodies, leading power project managers, engineers, production managers, academia, technical managers, plant superintendents, operators and maintenance personnel, and private power consumer companies.

## HOW TO APPLY

- ❖ Send the duly filled registration form (scanned copy) through email: [akhilgupta1977@gmail.com](mailto:akhilgupta1977@gmail.com) as attachment. Submit the original hard copy at the time of first day in FDP registration.
- ❖ Last date of receiving registration form for participation in this FDP is **June 12, 2022**.
- ❖ Selected candidates will be informed by email/phone.

## IMPORTANT INSTRUCTIONS

There will be No-Registration fees for any participants from academic institutions, industry & research organizations. The interested participants from these organizations can fill the attached registration form & send its scanned copy by email in advance. Seats are limited and applicants will be selected on first come, first serve basis.

No TA/DA will be given to any participant. Suitable arrangements for free boarding and lodging of participants (On request basis) will be made at students' hostel in the university campus.

## ORGANIZING COMMITTEE

### Chief Patron

**Sh. Rahul Bhandari, IAS**  
Vice-Chancellor, IKGPTU

### Patron

**Dr. S.K. Mishra**  
Registrar, IKGPTU

### Chairman

**Dr. Vikas Chawla**  
Dean Academics, IKGPTU

**Dr. Rajiv Chauhan**  
Coordinator AICTE

### Co-Chairman(s)

**Dr. Satvir Singh**  
Deputy Dean (Engineering)

**Dr. Yadwinder Singh Brar**  
Professor, EE

### Internal Committee

**Dr. Yadwinder Singh Brar**  
Professor, EE

**Dr. Gagandeep Kaur**  
Associate Professor, EE

**Dr. Deepika Bhalla**  
Assistant Professor, EE

**Dr. Naveen Kumar Sharma**  
Assistant Professor, EE

**Dr. Akhil Gupta**  
Assistant Professor, EE

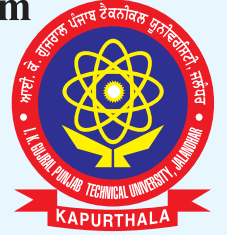


# REGISTRATION FORM

## One-Week National Level Faculty Development Program (AICTE & IKGPTU Sponsored)

on

### Applications of Computing Techniques in Sustainable Energy Systems - (ACTSES) (June 15 - 20, 2022)



Organized by

Department of Electrical Engineering, I. K. Gujral Punjab Technical University-Main Campus,  
Jalandhar - Kapurthala Highway, Distt. Kapurthala, Punjab, India.

Name of the Candidate (Dr./Mr./Ms.).....

Designation.....

Name of the Department.....

Email ID.....

Office Tel No./Mobile No.....

Name of the Institution :.....

Address for Correspondence: .....

Highest Academic Qualification.....

Experiences (If applicable) (a) Teaching..... (b) Industrial or others.....

Research Areas/Specialization.....

Male/Female.....

Accommodation Assistance Required (Yes/No) :.....  
(.....)

Place:

Date:

Complete Signature of the Candidate

### Recommendation

I hereby permit Dr./Mr./Ms..... an employee of our institute to participate in the FDP on Applications of Computing Techniques in Sustainable Energy Systems (ACTSES) (June 15- 20, 2022) being held at I.K. Gujral Punjab Technical University, Main Campus, Kapurthala, Punjab. During this period, he/she would be on the official duty.

Complete Signature with Date & Seal  
Sponsoring Authority  
(HOD/Principal/Director)

Note: 1. Photocopied/typed Reg. Form can be used or may be downloaded from institute website.

2. Send the filed registration form (scan copy) through email as attachment & submit the original hard copy at the time of FDP registration.

### Contacts

**Dr. Gagandeep Kaur**, Email: gaganee@ptu.ac.in Mob. No.: +91-94780-98118

**Dr. Akhil Gupta**, Email: akhilgupta1977@gmail.com Mob. No.: +91-94658-84873, 98550-41124



One-Week  
National Level Faculty Development Programme (NLFDP)  
(ACTE & JGPTU Sponsored)

or

Applications of  
Computing Techniques in  
Sustainable Energy System  
(ACTSES)  
(June 15-20, 2022)

Organized by  
Department of Electrical Engineering,  
I. K. Gujral Punjab Technical University,  
Main Campus, Ashokpur - Kapurthala Rd,  
Distt. Kapurthala-14601, Punjab, India  
http://www.ikgptu.ac.in

One-Week  
National Level Faculty Development Programme (NLFDP)  
(ACTE & JGPTU Sponsored)


or

Applications of  
Computing Techniques in  
Sustainable Energy System  
(ACTSES)  
(June 15-20, 2022)

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Department of Electrical Engineering,  
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Main Campus, Ashokpur - Kapurthala Rd,  
Distt. Kapurthala-14601, Punjab, India  
http://www.ikgptu.ac.in



**Rasulpur Brahmanan, Punjab, India**  
9F36+28G, I.K Gujral Punjab Technical University, Rasulpur Brahmanan,  
Punjab 144002, India  
Lat 31.352701°  
Long 75.460771°  
15/06/22 11:36 AM

 **GPS Map Camera**

**NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING &  
RESEARCH, SECTOR-26, CHANDIGARH**

In association with

**I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY  
AMRITSAR CAMPUS**

Jointly organizes

**Two Days Workshop On**

**RENEWABLE ENERGY: MATERIALS AND DEVICES**

**3 - 4 February 2022**

**Coordinators**

**Dr. B C Choudhary**  
Professor  
Applied Science Department,  
NITTTR, Sector-26, Chandigarh

**Dr. Amit Sarin**  
Professor  
I.K. Gujral Punjab Technical  
University, Amritsar Campus

**Coordinating Team**

**Dr. Pankaj Sharma, Professor**  
**Dr. Ashok Kumar, Asso. Professor,**  
**Dr. Vipul Sharma, Asstt. Professor**

**About This Workshop**

With the increasing depletion of energy and growth in climate change, developing renewable energy has become the central theme of world energy development. New energy materials and devices are the keys to implementing the transformation and utilization of renewable energy technologies. This two-day workshop will focus on the research and development of a new generation of high-performance energy materials, technologies and devices.

**Resource Persons**

The sessions will be engaged by eminent speakers of National and International repute.

**Eligibility**

Faculty from technical institutions approved by AICTE/ MoE, Govt. of India.



**There is no Registration Fee for attending this Workshop.**

+91- 9417521382  
+91- 9872998760

bcc1962@nitttrchd.ac.in  
amitsarin@ptu.ac.in

  
<http://www.nitttrchd.ac.in>  
<https://amritsar.ptu.ac.in/>

I.K. Gujral Punjab Technical  
University  
Amritsar Campus  
Near G.P. College, Park Road  
Chheharta, Amritsar-Punjab-143105  
Ph. 0183-2450034  
Email: campus.amritsar@ptu.ac.in  


## About IKGPTU Amritsar Campus

IKGPTU Amritsar Campus has been established in 2014 to provide Quality Technical Education especially to students from rural belt belonging to weaker sections of society and to people of all sections in general. The main focus is to produce Quality Engineers according to the needs of Industry at State, National and International levels. IKGPTU Amritsar Campus has prime location on G.T Road, Amritsar near Guru Nanak Dev University.

## About NITTTR Chandigarh

National Institute of Technical Teachers Training and Research (Formerly TTTI), Chandigarh is one of the four national institutes established by the Government of India in 1967 for the development of technical education in the country. The institute offers a wide range of Short Term Courses for faculty and staff of technical institutions. The institute also offers Ph.D. and Master's Degree programmes in six disciplines on regular and part-time basis. The institute is situated in a well-developed campus in Sector 26, Chandigarh. The institute is about 12 km from airport, 5 km from Railway Station, 5 km from Inter State Bus Terminus, Sector 17 & 8 km from Inter State Bus Terminus, Sector 43.



### NOTE

- There is no Registration Fee for attending this Workshop.
- Workshop will be conducted through ONLINE MODE
- Prior registration is compulsory to attend the workshop.



**REGISTER NOW**

Link for Registration: [https://docs.google.com/forms/d/e/1FAIpQLSe9Q4rO4rLuioPpUHqMD0OQZVkt-ZBbHynhcRrEeLh-GG3s1A/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSe9Q4rO4rLuioPpUHqMD0OQZVkt-ZBbHynhcRrEeLh-GG3s1A/viewform?usp=sf_link)

+91- 9417521382  
+91- 9872998760

bcc1962@nitttrchd.ac.in  
amitsarin@ptu.ac.in

  
<http://www.nitttrchd.ac.in>

<https://alumni.amritsar.ptu.ac.in/>

Amritsar Campus  
Near Cipat College, Polytechnic Road,  
Chheharta, Amritsar-Punjab-143105  
Ph. 0183-2450034  
Email: campus.amritsar@ptu.ac.in



Two Days Workshop on

# Renewable Energy: Materials and Devices



(03 -04 February 2022) OPlan: WS-13

## TIME SCHEDULE

Day and Date	09.30-10.00AM	10.00 – 11.30AM	11.45-1.15 PM	2.30 - 4.30 PM
Thursday 03.02.2022	Inauguration (Dr. Pankaj Sharma/Dr. Amit Sarin)	Solar Energy: Photovoltaic and other Solar Technologies (Dr. Ashok Kumar, NITTTR, Chandigarh)	Nuclear Energy: An Ultimate Solution for Energy Crisis (Dr. B C Choudhary, NITTTR, Chandigarh)	Hydro Power Generation: Present Scenario and Control Requirements (Dr. Umesh C Rathore, GHEC, Bilaspur, HP)
Day and Date	09.30 – 11.00AM	LUNCH BREAK		2.30 – 4.00PM
Friday 04.02.2022	Wind Power Technology and its benefits for India (Dr. Joshua Earnest, Former Professor, NITTTR, Bhopal)	Storage Battery in SPV System (Dr. Gaurav Dwivedi, Energy Centre, Maulana Azad National Institute of Technology, Bhopal )	Bioenergy Generation from lignocellulosic biomass (Dr. Sachin Kumar, Deputy Director, Sardar Swaran Singh National Institute of Bio-Energy, Kapurthala	Feedback & Valediction (Dr. BCC/ Dr. AS/ Dr. PS)

(Dr. Amit Sarin)  
Professor & Course Coordinator

(Dr. BC Choudhary)  
Professor & Course Coordinator

I.K. Gujral Punjab Technical University  
Amritsar Campus  
Near Pipet College, Polytechnic Road,  
Chandigarh, Amritsar-Punjab-143105  
E-mail: campus.amritsar@ptu.ac.in

Workshop on Renewable Energy: Materials and Devices (W-13)

03-04 February 2022

For Certificate purpose

Sr. No	Name of Participant	Designation	Institute Name	Day 1		Day 2	
				S1	S2	S1	S2
1.	G. DINESHKUMAR	Assistant Professor (EEE)	Muthayammal Engineering College, Rasipuram, Namakkal-637408	P	P	P	P
2.	AMIT BANSAL	Lecturer (Mech. Engg.)	Government Women Polytechnic College, BIKANER	P	P	P	P
3.	ANKIT SATI	Lecturer (Agriculture)	Roorkee College, Roorkee, Uttarakhand	P	P	P	P
4.	Dr. A. SUDARSHAN REDDY		Sri Venkateswara College of Engineering and Technology, Chittoor.	P	A	P	P
5.	KAMAL SOLANKI	Assistant Professor (ET & T)	Rungta College of Engineering and Technology, Bhilai, Chhattisgarh	P	A	P	P
6.	NAVDEEP SINGH	Assistant Professor (EE)	MMMUT, Gorakhpur	P	P	P	P
7.	ASHWANI KUMAR SONI	Sr. Scientist, (REE)	College of Agricultural Engineering and Technology, PAU, Ludhiana	P	P	P	P
8.	PARAMANAND SHARMA	Assistant Professor (ECE)	KIET Group of institutions, 13 KM Stone, Delhi-Meerut Road, NH-58, Ghaziabad, U.P. - 201206	P	P	P	P
9.	SMIT YADAV	Lecturer, Applied science	Govt. Polytechnic Lisana Rewari	P	A	P	P
10.	NIDHI AGARWAL	Assistant professor, IT	KIET group of institutions, delhi ncr ghaziabad	P	P	P	P
11.	PREETI	Lecturer (Applied science)	Government Polytechnic Lisana (Rewari)	P	P	P	P
12.	PAWAN KUMAR	Assistant professor (CSE)	Guru Jambheshwar University of Science & Technology, Hisar, Haryana	P	A	P	P
13.	LALIT YADAV	Assistant Professor (Mech. Engg.)	Sir Padampat Singhania University, Udaipur	P	A	P	P
14.	RAJESH KUMAR	Assistant Professor (Mech. Engg.)	Chitkara University	P	P	P	P
15.	MUKHESHWAR YADAV	Assistant Professor (Mech. Engg.)	Chitkara University, Punjab	P	P	P	P
16.	Dr. SUKH DEV DOGRA	HOD (o) Applied Sciences	Chandigarh College of Engineering and Technology (Diploma Wing), Sector-26, CHANDIGARH.	P	P	P	P
17.	JYOTI SINGH	Lecturer, Applied Science	Government Polytechnic Education Society, Lisana Rewari.	P	P	P	P
18.	SUSANTA KUMAR TRIPATHY	Assistant Professor (ECE)	National Institute of Technology, Silchar, India	P	A	P	P

L.K. Gujral Punjab Technical University  
Amritsar Campus  
Near Gijet College, Polytechnic Road,  
Chhaharta, Amritsar-Punjab-143105  
Ph. 0183-2450034  
E-mail- campus.amritsar@ptu.ac.in

19.	VARUN	Lecturer (I & C Engg.)	Government Polytechnic Kangra, HP	P	P	P	P
20.	Dr. AMIT GUPTA	Professor (ECE)	Narasaraopeta Engineering College	P	P	P	P
21.	VIKASH SAWAN	Assistant Professor & CSE	Medi- Caps University, Indore	P	P	P	P
22.	B.SAI VENKATA KRISHNA	Assistant Professor (Mech. Engg.)	Megha Institute of Engineering and Technology for Women, Medchal, Telangana-501301	P	P	P	P
23.	PRADYUMNA YAMBAR	Assistant professor (EEE)	MIEW, Telangana	P	A	P	P
24.	DONTHIREDDY RAJA SHEKAR REDDY	Assistant Professor (Civil)	Megha Institute of engineering and technology for women, Telangana	A	P	P	P
25.	RAHUL KANYAN	Technical Assistance	National Institute of Solar Energy, Gurugram	P	P	P	P
26.	K RAJU	Assistant professor (ECE)	Megha Institute Of Engineering And Technology For Women, Telangana	P	P	P	P
27.	Dr. MEETU SINGH	Assistant Professor (Physics)	S.R. Govt. College for Women, Amritsar	P	P	P	P
28.	UPMA	Assistant Professor (Physics)	Global Group of Institutes, Amritsar	P	P	P	P
29.	PUSHKAR SINGH	Lecturer, Mec. Engg.	Government Polytechnic Kenaura Sultanpur, Sultanpur, Uttar Pradesh	P	P	P	P
30.	NARINDER ARORA	Assistant Professor, Physics	DAV College, Amritsar	P	Ab	P	P
31.	Dr. KONARK SHARMA	Assistant Professor (Eltx/Robotics)	Shri Vishwakarma Skill University Gurugram, Haryana	P	P	P	P
32.	POOJA VERMA	Lecturer	Government Polytechnic College, Uttawar (Palwal)	P	P	P	P
33.	KOMAL MOHAN GARSE	Assistant Professor (Mech. Engg.)	Sinhgad College of Engineering, Pune	P	P	P	P
34.	Dr. AMIT KUMAR	Assistant Professor	Dept. of Agriculture, Swami Vivekanand Subharti University, Meerut	A	P	P	P
35.	MUSTANSIR NIZAM	Laboratory Technician (EE Dept.)	BGSBU University Rajouri, Jammu & Kashmir	P	P	P	P
36.	PRAMOD KUMAR KAUSHAL	Assistant Professor, (EE Engg.)	Subharti Institute of Technology and Engineering, Meerut	P	P	P	P
37.	PANKAJ KUMAR GAUTAM	Assistant professor (EEE)	Subharti Institute of Technology and Engineering, Meerut	P	P	P	P
38.	Dr. SAVITA	Assistant professor (App. Sc.)	University Institute of Engineering & Technology, Kurukshetra University, Kurukshetra	P	P	P	P
39.	SUNEET SHUKLA	Head (Comp. Sc. & Design)	IMS Engineering College, Aadhyaत्मik Nagar, Ghaziabad.	P	P	P	P
40.	AMRENDRA KUMAR SINGH	Assistant Professor (Civil Engg.)	Swami Vivekanand Subharti University, Meerut	P	P	P	P
41.	ABHINAV SINGH	Assistant Professor	Swami Vivekanand Subharti University, Meerut	P	P	P	P
42.	ABHISHK TIWARI	Assistant Professor (Civil Engg.)	Subharti Institute of Technology and Engineering, Meerut	P	P	P	P
43.	MAYANKESHWAR SINGH	Assistant Professor (Civil Engg.)	Subharti Institute of technology and engineering, Meerut	P	P	P	P

44.	GURU SUWAK KESHRWANI	Assistant Professor.	Subharti Institute of Technology & Engineering, Meerut.	P	P	P	P	A
45.	PEER MOHD FAZIL	Assistant Professor (Civil Engrg.)	Subharti Institute of Technology and Engineering, Meerut.	P	P	P	P	P
46.	SUVEG MOUDGIL	Associate Professor (IT)	IMS Engineering college, Ghaziabad	P	P	P	P	P
47.	RAVI AGARWAL	Assistant Professor (EEE)	Subharti Institute of Technology & Engineering, Swami Vivekanand Subharti University, Meerut.	P	P	P	P	P
48.	T Ramachandran	Assistant professor (EEE)	Subharti Institute of Technology and Engineering, Swami Vivekanand Subharti University, Meerut	P	A	P	P	P
49.	ASHOK KUMAR	Jr. lab. Assistant (EED)	Punjab Engineering College	P	P	P	P	P
50.	SARAH JACOBS	Associate Professor	College of Engineering Chengannur, Chengannur, Kerala-689 121	P	P	P	P	P
51.	RAJESH KUMAR	Assistant Engineer	Urban Local Bodies, Haryana	P	P	P	P	P
52.	SAURABH SINGH	Executive Engineer	Northern Railway, Chandigarh	A	P	P	P	P
53.	MOHD.MURTAJA	Assistant Professor and Head	Ch. Charan Singh University Campus, Meerut.	P	P	P	P	P
54.	ROHIT PUZARA	Assistant Professor (Civil Engrg.)	Swami Vivekanand Subharti University, Meerut.	P	P	P	P	P
55.	PARVEEN KUMAR	Assistant Professor, School of Physical Sciences	DIT University, Makkawala, Dehradun-248009	P	P	P	P	P
56.	SURBHI SACHDEV	Professor, School of Physical Sciences	DIT University, Makkawala, Dehradun-248009	P	P	P	P	P
57.	MANOJ BHATNAGAR	Professor, School of Physical Sciences	DIT University, Makkawala, Dehradun-248009	P	P	P	P	P
58.	ANAMIKA	Assistant Professor	Chandigarh University	P	P	P	P	P
59.	PRADEEP KUMAR CHANDRA	Assistant Professor (Mech. Engrg.)	Lloyd Institute of Engineering and Technology , Greater Noida	P	P	P	P	P
60.	MUKUL BEDWA	Assistant professor	Chandigarh university	P	A	P	P	P
61.	PRASHANT UPADHYAY	Associate Professor (ECE)	Madanapalle Institute of Technology and Science, Madanapalle, Chittoor, Andhra Pradesh	P	P	P	P	P
62.	MANPREET SINGH	Scientist (REF),	Punjab Agricultural University, Ludhiana	P	P	P	P	P
63.	AJAY KUMAR	Lecturer (Chemical Engrg.)	MK GP, Jattal, Panipat	P	P	P	P	P
64.	GURPREET SINGH	Lecturer (App. Sc.)	Guru Nanak Dev Polytechnic College, Ludhiana (Pb.)	P	P	P	P	P
65.	NAVDEEP MOR	Assistant Professor (Civil Engrg.)	Guru Jambheshwar University of Science and Technology, Hisar, Haryana	P	P	P	P	P
66.	TUSHAR AGARWAL	Assistant Professor (Elect. Engrg.)	Arya Institute of Engineering & Technology, Jaipur	P	P	P	P	P
67.	SALGA ANN JACOB	Assistant Professor (ECE)	Mar Baselios College of Engineering and Technology, Thiruvananthapuram	P	P	P	P	P
68.	SURASMINI	ASSISTANT PROFESSOR, EED	Mar Baselios College of Engineering and Technology, Thiruvananthapuram.	P	P	P	P	P



69.	JOMOLE JOSEPH PEEDIKAYIL	Assistant Professor, (IT Engg.)	Mar Basellos College of Engineering and Technology, Malanchira P.O., Thiruvananthapuram, Kerala	P	P	P	P
70.	Dr. J. DHANALAKSHMI	Assistant Professor (Chemistry)	Kamaraj College of Engineering and Technology, S.P.G.C. Nagar, K.Vellakulam-625701.	P	P	P	P
71.	ANSHUMAN NAYAK	Assistant Professor (FE)	College of Engineering, Bhubaneswar - 751024 Odisha, India	P	P	P	P
72.	Dr. PREETI	Associate Professor (Biotech.)	Chandigarh group of college, Landran Mohali	P	P	P	P
73.	YATISH R G		Govt Polytechnic, Udupi	P	P	P	P
74.	Dr. MUKESH RUJHILA		Subharti Institute of Technology and Engineering, Meerut	P	A	P	P
75.	Dr. PANKAJ SRIVASTAVA	Associate Professor	Department of Physics, Jaipur National University, Jaipur	P	A	P	P
76.	VIPUL SHARMA	Assistant Professor, CSE	I.K. Gujral Punjab Technical University	P	P	P	
77.	RIYAS PR	Assistant Professor	Dhaanish Ahmed Institute of Technology, Coimbatore, Tamilnadu	P	P	P	P
78.	SHREYA	Assistant Professor & Assistant Dean- (Dept. of Maths.)	Lovely Professional University, Jalandhar-Delhi G.T. Road, Phagwara, Punjab (India)- 144411	P	P	A	P
79.	AJAY RANA	Assistant Professor (Mech. Engg.)	Universal Group of Institutions, Punjab	P	P	P	P
80.	VIJAY SINGH	Assistant Professor (Mech. Engg.)	Universal Group of Institutions, Village Ballapur, Lalru, Mohali, Punjab-140501	P	P	P	P
81.	PRABHKIRAN KAUR	Assistant Professor	IKGPTU, Amritsar Campus, Punjab.	P	P	P	P
82.	PANKAJ KUMAR	Lecturer (Chem. Engg.)	Maharishi Kashyap Govt. Polytechnic, Jattal, Panipat, Haryana	P	P	P	P
83.	VIKRAMJEET SINGH	Assistant Professor (Maths.)	IKGPTU Amritsar Campus	P	P	P	P
84.	MANPREET KAUR	TGT (Computer)	Sri Guru Gobind Singh Collegiate Public School Sector- 26, Chandigarh	P	P	P	P
85.	PAVAN SHARMA	Assistant Professor, IT	IMS Engineering College, Ghaziabad	P	P	P	P
86.	SUKHINDERBIR SINGH KALSI	Assistant Professor, (Mech. Engg.)	IKGPTU, Campus Amritsar, Punjab.	P	P	P	P


  
 I.K. Gujral Punjab Technical University  
 Amritsar Campus  
 Near Cipet College, Polytechnic Road,  
 Chibcharia, Amritsar-Punjab-143105  
 Ph. 0183-2450034  
 E-mail: campus.amritsar@ptu.ac.in

6.3.3 Number of professional development / administrative training Programmes organized by the institution for teaching and non teaching staff during the year

Dates (from-to) (DD-MM-YYYY)	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff	No. of participants
20-06-2022 to 25-06-2022		Latest Technologies & Trends in Libraries	38

  
Prepared by:-

  
Checked by:-

  
Deputy Librarian  
I.K. Gujral Punjab Technical University  
Jalandhar

**Subject: Detailed Schedule of the training Programme.**

Days	Date	Session 1 09:30 AM to 11:00 AM	Session 2 11:30 AM to 01:00 PM	Session 3 02:00 Pm to 03:20 PM	Session 4 03:40 PM to 05:00 PM
1 <sup>st</sup>	20.06.22	Inaugural Session:  <b>Dr. S.K. Mishra,</b> Registrar, IKGPTU	The Evolution of Documents  <b>Dr. M.P. Satija</b> Emeritus Professor ( Retd) GNDU, Amritsar	Information V/s Knowledge: Grey Areas  <b>Dr. M.P. Satija</b> Emeritus Professor ( Retd) GNDU, Amritsar	eContant development for teaching & Research  <b>Dr. Neeraj Singh , Deputy</b> Librarian, Panjab University, Chandigarh
2 <sup>nd</sup>	21.06.22	RIFID Technology in Libraries <b>Dr. Jivesh Bansal</b> Librarian Panjab University, Chandigarh	E-Resources & Services of MHRD & UGC <b>Dr. Jivesh Bansal</b> Librarian Panjab University, Chandigarh	Technologies & Libraries <b>Dr. Baljinder Kaur</b> Assistant Professor, Punjabi University, Patiala	Smart Libraries for Smart users <b>Dr. Baljinder Kaur</b> Assistant Professor, Punjabi University, Patiala
3 <sup>rd</sup>	22.06.22	Training on KOHA  <b>Dr. Jatinder Kumar</b> Librarian Lovely Professional University Phagwara	Research Writing & Citation  <b>Dr Nirmal Swain</b> Professor, MDU, Rohtak	Publication Dynamism  <b>Dr Nirmal Swain</b> Professor, MDU, Rohtak	Training on KOHA <b>Dr. Jatinder Kumar</b> Librarian Lovely Professional University, Phagwara
4 <sup>th</sup>	23.06.22	Open Educational Resources  <b>Madhu Midha</b> Deputy Librarian IKGPTU	Digital Transition & Media & Information Literacy. <b>Dr. H.P.S. Kalra</b> Professor, Punjabi University, Patiala	Training on Mendley software  <b>Madhu Midha</b> Deputy Librarian IKGPTU	Webometrics: A New Tool for WebsiteEvaluation by using Qantitative Techniques <b>Dr. Manoj Verma</b> Associate Professor, Mizoram University
5 <sup>th</sup>	24.06.22	NEP & LIS Education sharing of experience <b>Dr Dinesh Gupta</b> Professor and HOD, Central University of Haryana.	Digital Transformation & Disruptive Technology Changing Landscape of Librarianship <b>Prof. K.P.Singh</b> Prof. & Director GBPPGMH, University of Delhi, New Delhi	Academic Integrity and Research Ethics. <b>Prof. K.P.Singh</b> Director GBPPGMH, University of Delhi, New Delhi	Shodh Chakra: A new initiative of INFLIBNET for researchers <b>Dr Dinesh Gupta</b> Professor and HOD, Central University of Haryana.
6 <sup>th</sup>	25.06.22	Searching Information Online <b>Dr. Sangita Gupta</b> Professor & Head, University of Jammu	Test	Valedictory Session	

  
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
**Certificate Receiving of Six Days FDP on "Latest Technologies & Trends in Libraries" from June 20-25, 2022**

Sr.No.	Name of the Participant	Male/ Female	Institute Name	Mobile No.	E-Mail ID	Signature of Participants
1	Arti Talwar	Female	I.K.Gujral Punjab Technical University, Jalandhar	8847427910	artitalwar2014@gmail.com	<i>Arti Talwar</i> 25/6/22
2	Baljinder Kaur	Female	I.K.Gujral Punjab Technical University, Jalandhar	9855307306	baljinder.ptu@gmail.com	<i>BK</i> 25/6/22
3	Baru	Male	I.K.Gujral Punjab Technical University, Jalandhar	9501658801	jindzaildar410@gmail.com	<i>Baru</i> 25/6/22
4	Deepak Chand	Male	I.K.Gujral Punjab Technical University, Jalandhar	9041155352	harry981@yahoo.com	<i>Deepak</i>
5	Dharmender Kumar	Male	I.K.Gujral Punjab Technical University, Jalandhar	9417379673	dharmenderkumar160@gmail.com	<i>Dharmender Kumar</i> 25/06/22
6	Geeta Rani	Female	St. Soldier Institute of Pharmacy, Jalandhar	8968119343	bidla.geeta@gmail.com	<i>Geeta Rani</i> 25/6/22
7	Gurinderjit Kaur	Female	BIS Group of Institution, Gagra Moga	7973638340	rubysidhu15@gmail.com	<i>Gurinderjit Kaur</i> 25/6/22
8	Gurpreet Singh	Male	I.K.Gujral Punjab Technical University, Jalandhar	8054710504	gs409497@gmail.com	<i>Gurpreet Singh</i>
9	Harpreet Singh	Male	Hans Raj Mahila Maha Vidyalayaaha, Jalandhar	7814976266 7814975960	harpreet.hmv@gmail.com	<i>Harpreet Singh</i> 25/6/22
10	Jagjeet Kaur	Female	Trinity College, Jalandhar	9464832260	jagjeetkaur490@gmail.com	<i>Jagjeet Kaur</i> 25/6/22
11	Jasmeet Kaur	Female	I.K.Gujral Punjab Technical University, Jalandhar	9988003090	jasmanroop11415@gmail.com	<i>Jasmeet Kaur</i> 25/6/22
12	Kamal Mittal	Male	I.K.Gujral Punjab Technical University, Jalandhar	9888736073	kmittal_2007@yahoo.com	<i>Kamal Mittal</i> 25/6/2022
13	Mamta Rani	Female	Innocent Hearts Group of Institutions, Loharan, Jalandhar	8968488443	mamtachugh183@gmail.com	<i>Mamta Rani</i> 25/6/22

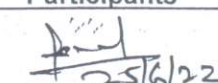
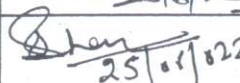
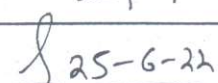
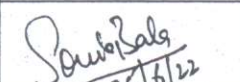
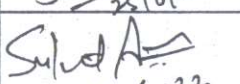
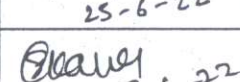
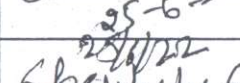
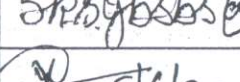
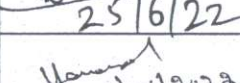
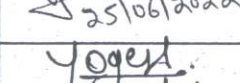
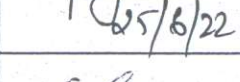
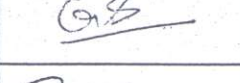
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
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Sr.No.	Name of the Participant	Male/ Female	Institute Name	Mobile No.	E-Mail ID	Signature of Participants
14	Manahor Lal	Male	I.K.Gujral Punjab Technical University, Jalandhar, Hoshiarpur Campus	8872450800	manoharptu@gmail.com	<i>Manohar Lal</i> 25/6/2022
15	Manmohan Joshi	Male	Anand College of Engg. & management, Kapurthala	9056363454	acemlibrary.kpt@gmail.com	<i>M. Joshi</i> 25/6/22
16	Meenu Bala	Female	I.K.Gujral Punjab Technical University, Jalandhar	7340939943	meenubala685@gmail.com	<i>M. Bala</i> 25/6/22
17	Narinder Kaur	Female	I.K.Gujral Punjab Technical University, Jalandhar	9988700370	renunarinderkaur@gmail.com	<i>N. Kaur</i> 25/6/2022
18	Navinder Singh	Male	KMS College of IT & Management Dasuya	9914414529	mbadhan <sup>o/s</sup> @gmail.com	<i>N. Singh</i> 25/06/2022
19	Pardeep Kumar	Male	Guru Nanak College For Women, Banga	9855976874	dugh18@gmail.com	<i>P. Kumar</i> 25/06/22
20	Pawan Kumar	Male	I.K.Gujral Punjab Technical University, Jalandhar	9855568086	pawan.khichy@gmail.com	<i>P. Kumar</i> 25/06/22
21	Rajbeer Kaur	Female	Amritsar Group of Colleges, Amritsar.	98779-34479	rajwindersingh8619@gmail.com	<i>Rajbeer Kaur</i> 25/6/22
22	Rajinder Kumar	Male	D.A.V. Inst. of Engg. & Tech., Jalandhar	9915516552	irajindersharma@gmail.com	<i>R. Kumar</i> 25/6/22
23	Ram Paul	Male	I.K.Gujral Punjab Technical University, Jalandhar	9915311817	rampaul_2011@yahoo.in	<i>R. Paul</i> 25/6/22
24	Dr. Renu Bala	Female	PIET Sanskriti Sen. Sec. School, NFL Township, Panipat	9354182832	renu.bala149@gmail.com	<i>Renu Bala</i> 25/6/2022
25	Ravi Kumar	Male	I.K.Gujral Punjab Technical University, Jalandhar	7009291859	ravikhichy86@gmail.com	<i>R. Kumar</i> 25.06.22
26	Sandeep Kaur	Female	I.K.Gujral Punjab Technical University, Jalandhar	8146779167	library.ptu@gmail.com	<i>Sandeep Kaur</i> 25-6-2022

  
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Sr.No.	Name of the Participant	Male/ Female	Institute Name	Mobile No.	E-Mail ID	Signature of Participants
27	Sanjay kumar	Male	I.K.Gujral Punjab Technical University, Jalandhar	7009691306	sanjayanand1981@gmail.com	 25/6/22
28	Savita Sharma	Female	Vikram Vidyalaya, Amritsar	7876637560	savisharma450@gmail.com	 25/06/22
29	Simran Singh	Male	I.K.Gujral Punjab Technical University, Mohali Campus	6283616456	simransingh9755@gmail.com	 25-6-22
30	Sonia Bala	Female	CKD Institute of Management & Technology Amritsar	9914732931	balasonia04@gmail.com	 25/6/22
31	Suket Arora	Male	Central University of Himachal Pradesh, Sapt Sindhu Parisar, Dehra (H.P.)	7009985080	suket.arora@hpcu.ac.in	 25-6-22
32	Sukhwinder Kaur	Female	Pyramid College of Business & Tech., Phagwara	9876750546	sukhbangar7@gmail.com	 25-6-22
33	Surekha Sharma	Female	Saint Soldier Mgt. & Tech. College, Basti Mithu, Jalandhar	9877596352		 25/6/22 shs.ybsbs@gmail.com
34	Veerpal Kaur	Female	Ludhiana College of Engg. & Tech., Katani Kalan, Ludhiana	8054353113	veerpalkaur15april85@gmail.com	 25/6/22
35	Vijay Anand	Male	I.K.Gujral Punjab Technical University, Jalandhar	8872473888	anandvijay427@gmail.com	 25/06/2022
36	Yogesh Singh Malik	Male	Chandigarh Group of colleges, Jhanjari, Mohali	8813913942	yogesh.malik31@gmail.com	 25/6/22
37	Gaurav Sarma	male	I. K. Gujral Punjab Tech. University (ITS)	9592030298	gauravsarma39@gmail.com	 G.S
38	Rizyanka	female	St. Soldier Coll. Co. Edu JUC	8872695802	Rizyanka_megh@gmail.com	 Rizyanka

  
 Deputy Librarian  
 I.K. Gujral Punjab Technical University  
 Jalandhar

AICTE- iKGPTU Sponsored 6 Days National Level Faculty Development Programme (FDP) for Librarians on "Latest Technologies & Trends in Libraries" from June 20-25, 2022.

**"Statement of Expenditure"**

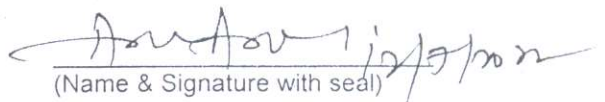
Reference No. : F. No. 34-37/11/FDC/STTP-TU/ IKGPTU/2021-22  
 Title of the FDP : Latest Technologies & Trends in Libraries.  
 Duration of the FDP : 20<sup>th</sup> June, 2022 to 25<sup>th</sup> June, 2022 (Six Days).  
 Name of the Coordinator : Ms. Madhu Midha, Deputy Librarian, IKGPTU.  
 Number of Participants Registered : 67 (Sixty Seven)  
 AICTE Sanctioned Grant : Rs. 1,50,000/- (One Lakh Fifty Thousand Only).  
 IKGPTU Sanctioned Grant : Rs. 1,50,000/- (One Lakh Fifty Thousand Only).

Sr. No.	Heads	Details of the Expenditures	Amount	AICTE	IKGPTU
1.	Coordinator Honorarium	Honorarium to FDP Coordinator	3,000/-	--	3,000/-
2.	Boarding & Lodging to Participants.	Lodging (Bister)	11,100/-	--	11,100/-
		Hostel Rent (Girls Hostel)	1,600/-	--	1,600/-
		Mess Charges (Girls Hostel)	2,530/-	--	2,530/-
		Mess Charges (Boys Hostels)	1,300/-	--	1,300/-
3.	Refreshment and Food	Refreshment (Tea, Snacks & Lunch)	64674/-	--	64674/-
4.	Working Expenses (Printing Certificate, Shield, Lab attendant, if any).	Bouquet	3,000/-	--	3,000/-
		Certificate Printing, Standee Flex Board etc.	4,578/-	--	4,578/-
		Books Gift for Resource Person	6,000/-	--	6,000/-
		Stationary (Ball Pen, Writing Pad, RIM, Punching Machine, Staplers Scissors, Pen etc)	6,552/-	--	6,552/-
5.	Course Material	Kit Bags	7,616/-	7,616/-	--
		Pen Drives to carry data	20,060/-	20,060/-	--
6.	Honorarium to Experts	Honorarium to Experts	56,000/-	56,000/-	--
7.	TA/DA to Resource Persons.	TA to out stationed Resource Persons	60,662/-	60,662/-	--
Total Utilized Funds			2,48,672/-	1,44,338/-	1,04,334/-
Total Sanctioned Amount			3,00,000/-	1,50,000/-	1,50,000/-
Balance Amount			51,328/-	5,662/-	45,666/-

Prepared by:  Checked by: 

(1)   
 (Name & Signature with seal)

Ms. Madhu Midha, Deputy Librarian  
 Programme Coordinator  
 Deputy Librarian  
 I.K. Gujral Punjab Technical Univ.  
 Jalandhar

(2)   
 (Name & Signature with seal)

Dr. Ashish Arora, Dean (R & D)  
 Head of Department  
 DEAN  
 R&D Deptt.  
 IKG Punjab Technical Univ.  
 Jalandhar

(3)   
 (Name & Signature with seal)

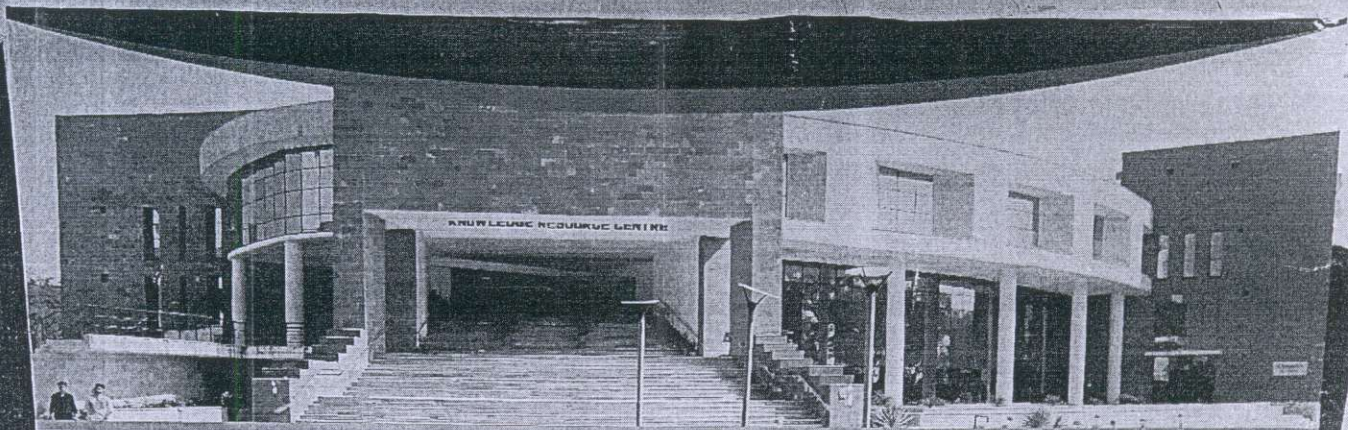
Dr. Sukhbir Singh Ahluwalia  
 F.O., IKGPTU  
 Finance Officer  
 I.K. Gujral Punjab Technical University  
 Jalandhar

(4)   
 (Name & Signature of Chartered Accountant)

Name: Varinder Kumar  
 Membership No. 531121  
 Rubber Stamp:  
 Full Address: HNO31618, Mohalla  
 Ghatkanwala, Kapurthala

  
 Deputy Librarian  
 I.K. Gujral Punjab Technical University  
 Jalandhar





**Six Days  
National Level  
Faculty Development Programme (FDP)  
For Library Professionals  
(AICTE & IKGPTU Sponsored )**

on

**“Latest Technologies & Trends in Libraries”  
(June 20-25, 2022)**



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Rasulpur Brahmanan, Punjab 144002, India**

**Lat 31.352642°**

**Long 75.46091°**

**20/06/22 10:15 AM**

Deputy Librarian  
I.K. Gujral Punjab Technical University  
Jalandhar



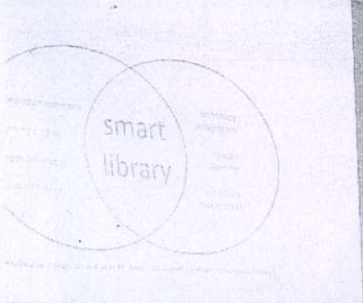
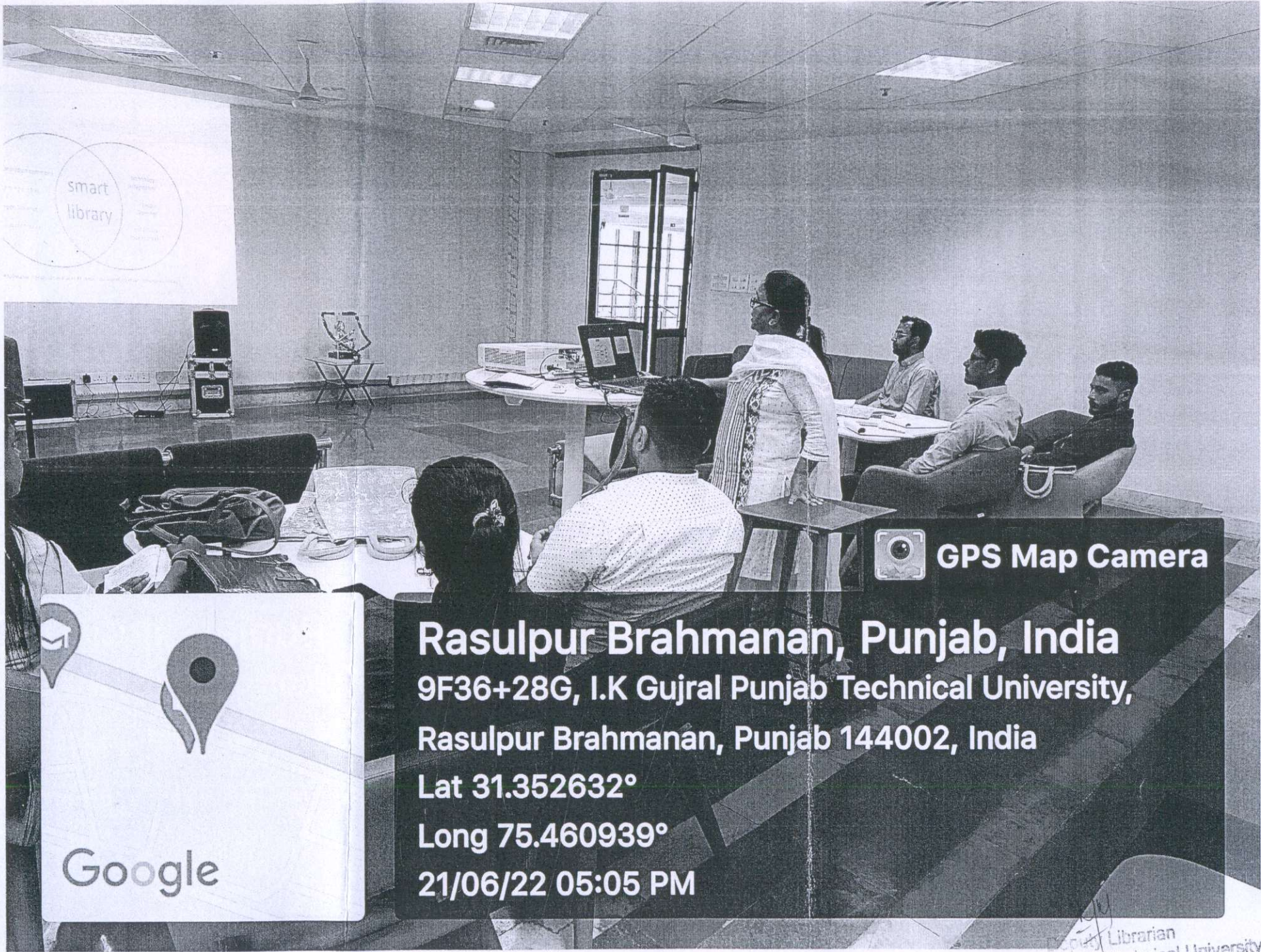


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**Rasulpur Brahmanan, Punjab, India**  
9F36+28G, I.K Gujral Punjab Technical University,  
Rasulpur Brahmanan, Punjab 144002, India  
Lat 31.352642°  
Long 75.460913°  
20/06/22 11:05 AM

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I.K Gujral Punjab Technical University



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**21/06/22 05:05 PM**



*Deputy Librarian*  
**I.K. Gujral Punjab Technical University**  
*Islandher*



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**Rasulpur Brahmanan, Punjab 144002, India**

**Lat 31.352706°**

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**21/06/22 10:02 AM**

Deputy Librarian  
I.K. Gujral Punjab Technical University  
Ludhiana

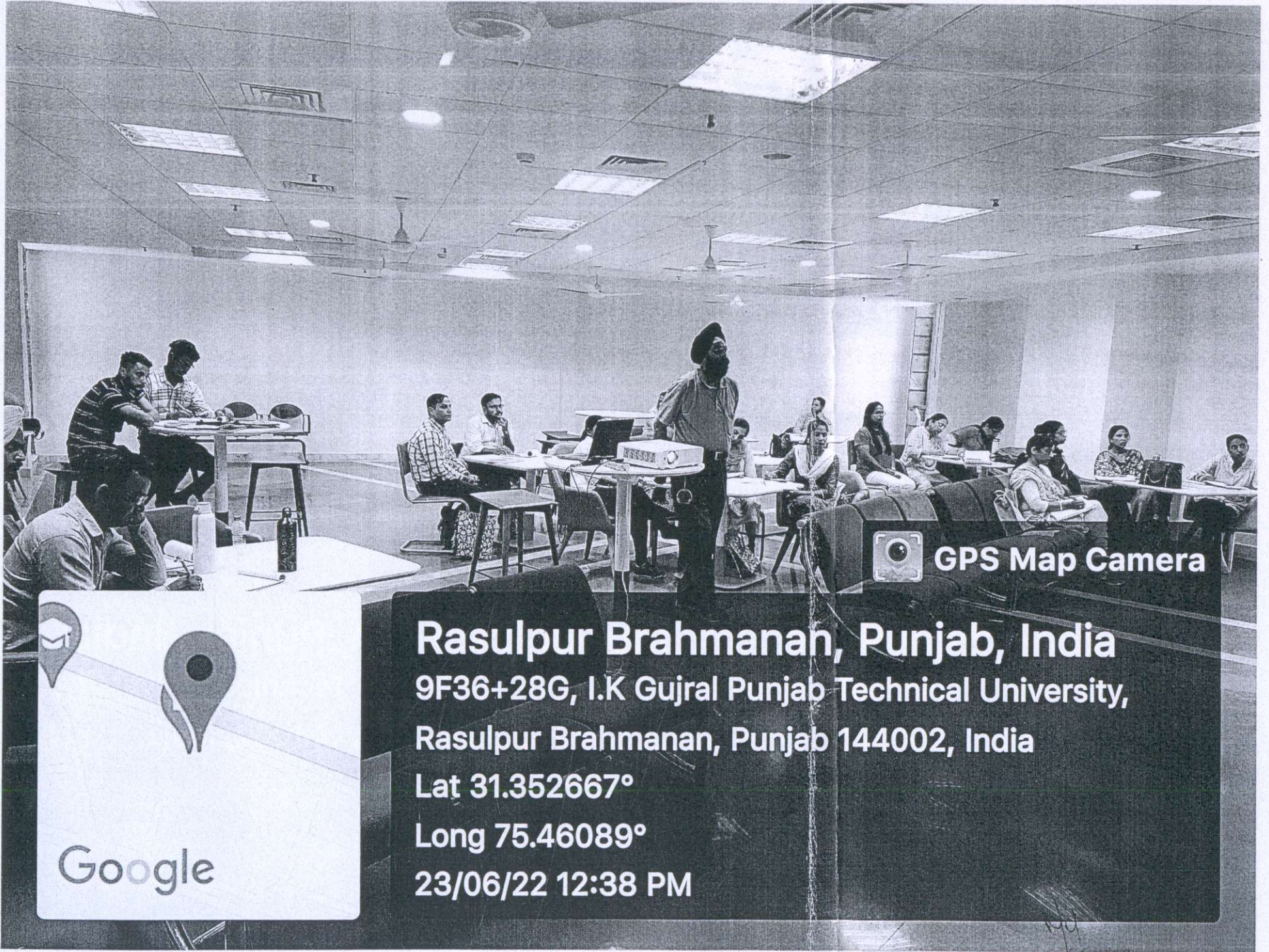


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**Rasulpur Brahmanan, Punjab 144002, India**  
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on  
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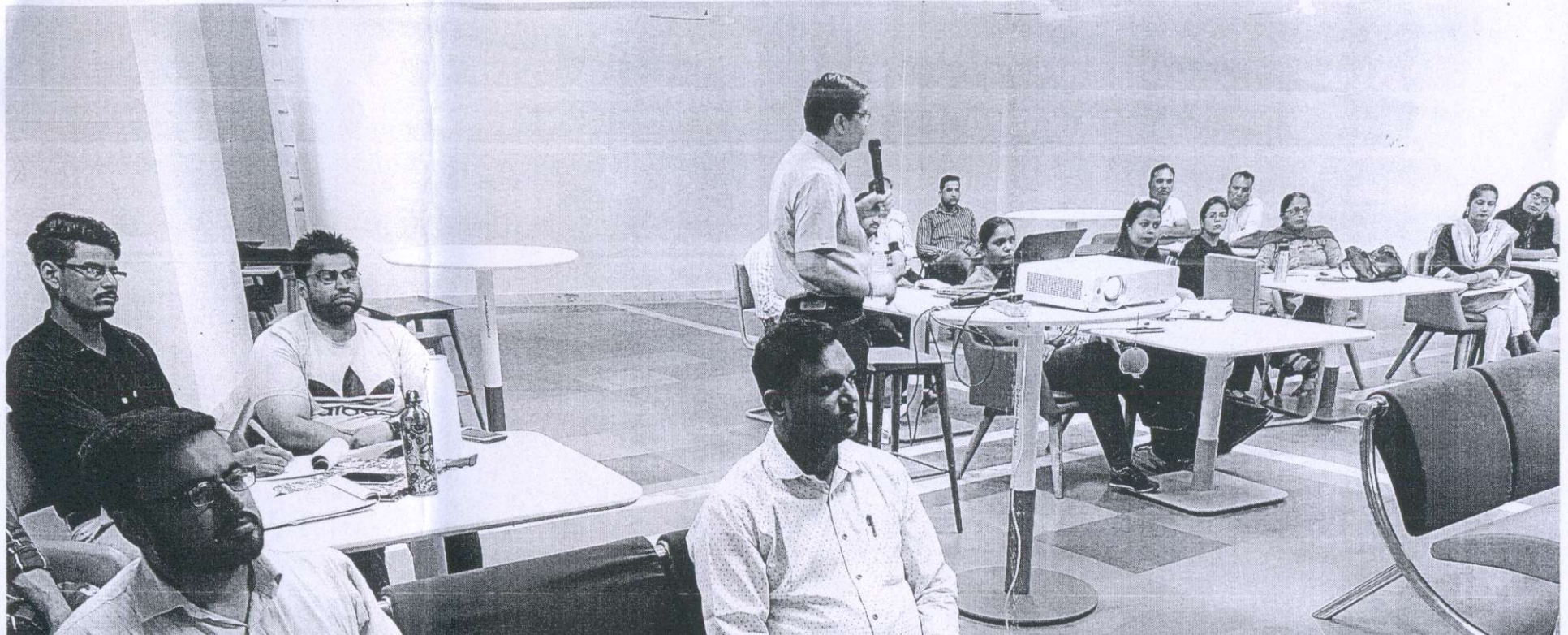


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**Rasulpur Brahmanan, Punjab, India**  
**9F36+28G, I.K Gujral Punjab Technical University,**  
**Rasulpur Brahmanan, Punjab 144002, India**  
**Lat 31.352647°**  
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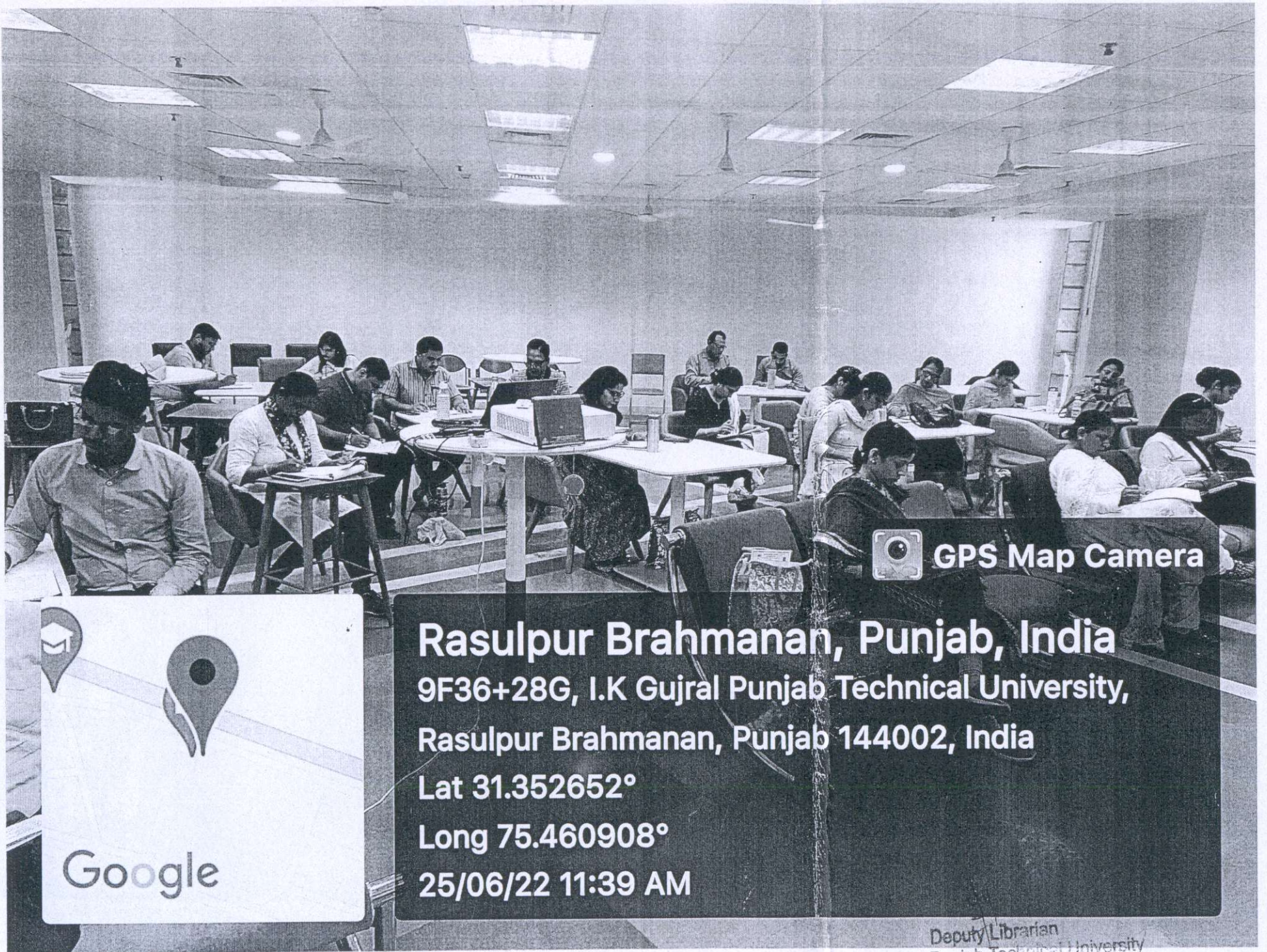
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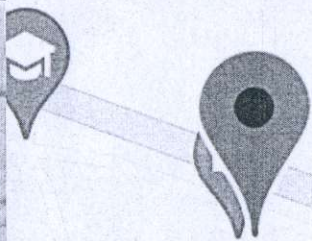
9F36+28G, I.K Gujral Punjab Technical University,

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Lat 31.352652°

Long 75.460908°

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*[Handwritten Signature]*  
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